



CITY OF SOMERVILLE

MASSACHUSETTS

ANNUAL REPORTS

1898



BOSTON:
AMERICAN PRINTING AND ENGRAVING CO.
50 Arch Street.
1899.

CITY GOVERNMENT AND OFFICERS
FOR 1898.

CITY GOVERNMENT AND OFFICERS FOR 1898.

MAYOR.

ALBION A. PERRY.
366 Broadway.

BOARD OF ALDERMEN.

WARD ONE.

L. HERBERT HUNTLEY	1 Pearl street.
FRANK DEWITT LAPHAM	3 Hathorn street.

WARD TWO.

JAMES F. DAVLIN	15 Kingman court.
FRENCH O. J. TARBOX	60 Oak street.

WARD THREE.

ANDREW A. LAMONT	43 Heath street.
FREDERICK M. KILMER	420 Broadway.

WARD FOUR.

JOHN N. BALL, <i>President</i>	690 Broadway.
SILAS L. CUMMINGS	251 Elm street.

CLERK.

GEORGE I. VINCENT.

Regular meetings, second, third and fourth Wednesday evenings of each month.

COMMON COUNCIL.

WARD ONE.

FRANK B. BURROWS	29 Mystic avenue.
ORICE M. GRACEY	23 Webster street.
ROBERT BURNS	21 Lincoln street.
WILLARD P. P. THOMSON	33 Pinckney street.

WARD TWO.

JAMES W. KENNEY	4 Concord avenue.
ARTHUR D. OSBORNE	8 Hillside park.
DAVID D. LORD	18 Aldersey street.
ARTHUR P. VINAL	36 Walnut street.

WARD THREE.

FRANCIS M. WILSON, <i>President</i>	103 Cross street.
ARTHUR W. BERRY	53 Hudson street.
WILLIAM H. CUSHMAN	6 Evergreen avenue.
CHARLES A. GRIMMONS	72 Thurston street.

WARD FOUR.

ISAAC M. STORY	238 Summer street.
DAVID W. CROCKER	53 Winslow avenue.
JOHN F. FOSTER	25 Kingston street.
PAUL J. SMITH	79 Irving street.

CLERK.

CHARLES S. ROBERTSON.

Regular meetings, Thursday evenings next following the second, third and fourth Wednesdays of each month.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

ACCOUNTS. — Aldermen Lamont and Tarbox ; Councilmen Grimmons, Thomson and Osborne.

CITY ENGINEERING. — Aldermen Lapham and Lamont ; Councilmen Berry, Kenney and Crocker.

CLAIMS.— His Honor the Mayor, Alderman Lapham ; the President of the Common Council, Councilmen Thomson and Smith.

ELECTRIC LINES.— Aldermen Ball, Huntley and Davlin ; Councilmen Story and Vinal.

FINANCE.— His Honor the Mayor, Aldermen Kilmer and Huntley ; the President of the Common Council, Councilmen Kenney, Story, Gracey and Foster.

FIRE DEPARTMENT.— Aldermen Huntley and Lamont ; Councilmen Burrows, Vinal and Foster.

FUEL AND STREET LIGHTS.— Aldermen Davlin and Lamont ; Councilmen Cushman, Story and Kenney.

HIGHWAYS.— Aldermen Lapham and Davlin ; Councilmen Gracey, Grimmons and Crocker.

LEGISLATIVE MATTERS.— His Honor the Mayor, Alderman Kilmer ; the President of the Common Council, Councilmen Lord and Foster.

ORDINANCES.— Aldermen Tarbox and Cummings ; Councilmen Story, Thomson and Berry.

PRINTING.— Aldermen Davlin and Cummings ; Councilmen Osborne, Grimmons and Burns.

PUBLIC GROUNDS.— Aldermen Ball and Kilmer ; Councilmen Burrows, Smith and Osborne.

PUBLIC PROPERTY.— Aldermen Cummings and Kilmer ; Councilmen Berry, Lord and Burns.

SOLDIERS' RELIEF.— Aldermen Davlin and Cummings ; Councilmen Burrows, Vinal and Cushman.

WATER.— Aldermen Huntley and Tarbox ; the President of the Common Council, Councilmen Lord and Gracey.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

ELECTIONS AND RETURNS.— Aldermen Cummings, Davlin and Kilmer.

ENROLLED ORDINANCES AND RESOLUTIONS.— Aldermen Kilmer, Huntley and Ball.

LICENSES.— Aldermen Tarbox, Cummings and Huntley.

POLICE. — His Honor the Mayor, Aldermen Ball and Lapham.

SEWERS. — Aldermen Lamont, Ball and Tarbox.

SPECIAL BUILDING PERMITS. — Aldermen Lapham and Huntley.

STATE AID. — Aldermen Tarbox, Lapham, Lamont and Bail.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Gracey, Crocker and Cushman.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Berry, Vinal and Smith.

SCHOOL COMMITTEE.

ALBION A. PERRY, Mayor, *Chairman, ex officio.*

FRANCIS M. WILSON, President of the Common Council,
ex officio

(Term, three years.)

WARD ONE.

S. NEWTON CUTLER (elected 1897), 28 Flint street.

SANFORD HANSCOM (elected 1896), 3 Webster street.

GEORGE S. POOLE (elected 1895), 46 Mt. Vernon street.

WARD TWO.

ALVAH B. DEARBORN (elected 1897), 34 Bow street.

HERBERT A. CHAPIN (elected 1895), 41 Walnut street.

JAMES F. BEARD (elected 1896), 17 Prospect Hill avenue.

WARD THREE.

QUINCY E. DICKERMAN (elected 1895), 85 Central street.

FRANK H. HARDISON (elected 1897), 192 Central street.

GEORGE W. W. WHITING (elected 1896), 280 Broadway.

WARD FOUR.

GILES W. BRYANT (elected 1895), 296 Elm street.

MARTIN W. CARR (elected 1896), 74 Craigie street.

GEORGE A. MILES (elected 1897), 249 Elm street.

GORDON A. SOUTHWORTH, *Superintendent and Secretary.*

Office, City Hall Annex.

Hours: 8 A. M. to 12 M., and 1.30 to 5 P. M.; Saturdays, 8 to 10.30 A. M.

Regular meetings, last Monday evening of each month.

ASSESSORS.

(Term, three years.)

BENJAMIN F. THOMPSON, *Chairman* (term expires 1899).

NATHAN H. REED (term expires 1900).

HARRY A. TRUE (term expires 1901).

ASSISTANT ASSESSORS.

(Term, one year.)

WARD ONE

FRED. B. CLAPP.

WARD TWO.

CHARLES C. FARRINGTON.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

FRANK A. TEELE.

Clerk, ALBERT B. FALES.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

BOARD OF HEALTH.

(Term, three years.)

ALLEN F. CARPENTER, *Chairman* (term expires 1900).

ALVANO T. NICKERSON (term expires 1899).

WILLIAM F. HOLMES, M. D. (term expires 1901).

Clerk, WILLIAM P. MITCHELL.

Agent, CALEB A. PAGE.

Superintendent Collection of Ashes and Offal, GEORGE W. S. HUSE.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

OVERSEERS OF THE POOR.

Office, City Hall Annex, Highland avenue, corner Walnut street.

ALBION A. PERRY, Mayor, *Chairman, ex officio.*

(Term, four years.)

EDWARD B. WEST, *President* (term expires 1899).

EZRA D. SOUTHER (died Feb. 16).

JAMES H. BUTLER (elected March 23), (term expires 1900).

ALBERT W. EDMANDS (term expires 1901).

HERBERT E. MERRILL (term expires 1902).

Agent, CHARLES C. FOLSOM.

Secretary, CORA F. LEWIS.

Office open : 8 A. M. to 12 M., 1 to 4 P. M.; Saturdays, 8 A. M. to
12 M.

WATER COMMISSIONERS.

(Term, three years.)

GEORGE D. WEMYSS, *President* (term expires 1900),
5 Austin street.

GEORGE A. KIMBALL (term expires 1901),
33 Warren avenue.

WILLIAM FRANKLIN HALL (term expires 1899),
345 Broadway.

FRANK E. MERRILL, *Clerk and Superintendent.*

Office open : 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

REGISTRARS OF VOTERS.

(Term : City Clerk, one year; other members, three years.)

CROMWELL G. ROWELL, *Chairman* (term expires 1900).

CHARLES P. LINCOLN (term expires 1901).

CHARLES E. PARKS (term expires 1899).

GEORGE I. VINCENT, *City Clerk.*

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN, *Chairman* (term expires 1900).

CHARLES A. WEST (term expires 1901).

JOHN B. VIALL (term expires 1899).

EDWARD C. BOOTH (term expires 1901).

CHRISTOPHER E. RYMES (term expires 1900).

GEORGE W. PERKINS (term expires 1901).

CHARLES H. BROWN (term expires 1900).

J. FRANK WELLINGTON (term expires 1899).

CHARLES W. SAWYER (term expires 1899).

JOHN S. HAYES (Died March 7),	} <i>Librarian and Sec'y.</i>
SAM WALTER FOSS (Elected May 16),	

Library open: 9 A. M. to 6 P. M.; Wednesdays and Saturdays, 9 A. M. to 9 P. M.

CITY CLERK.

GEORGE I. VINCENT.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE.

Office open: 8 A. M. to 2 P. M.; Saturdays, 8 A. M. to 12 M.

MESSENGER TO CITY COUNCIL.

JAIRUS MANN.

CITY SOLICITOR.FRANK W. KAAAN,
50 State street, Boston.

CITY AUDITOR.CHARLES S. ROBERTSON,
City Hall.

CITY ENGINEER.

ERNEST W. BAILEY.

Office open : 8 A. M. to 5 P. M. ; Saturdays, 8 A. M. to 12 M.

CLERK OF COMMITTEES.

WILLIAM P. MITCHELL.

Office open : 8 A. M. to 4 P. M ; Saturdays, 8 A. M. to 12 M.

SUPERINTENDENT OF STREETS.

JOHN P. PRICHARD.

Office hour : 9 A. M.

INSPECTOR OF BUILDINGS AND SUPERINTENDENT OF PUBLIC BUILDINGS.

FREDERICK C. FULLER.

Office hours : 8 to 10 A. M.

INSPECTOR OF PLUMBING.

DUNCAN C. GREENE.

Office hour : 8 to 9 A. M.

SUPERINTENDENT OF ELECTRIC LINES AND LIGHTS.

EDWARD BACKUS.

Office hour : 8.30 to 9.30 A. M. ·

CHIEF OF POLICE.

MELVILLE C. PARKHURST.

Office, Police Building, Bow street.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

JAMES R. HOPKINS.

Office, Central Fire Station, 261 Medford street.

CITY PHYSICIAN.

WILLIAM F. HOLMES, M. D.,
215 Pearl street.

INSPECTOR OF MILK AND VINEGAR.

CHARLES S. PHILBRICK,
50 Morrison street.

INSPECTOR OF ANIMALS AND PROVISIONS.

CHARLES M. BERRY,
14 Miller street.

SEALER OF WEIGHTS AND MEASURES.

JOHN H. DUSSEAULT,
42 Sargent avenue.

BURIAL AGENTS,

Under Chapter 279, Acts of 1896.

JAMES F. DAVLIN.
JOHN H. DUSSEAULT.

CONSTABLES.

JAIRUS MANN.	MELVILLE C. PARKHURST.
ROBERT R. PERRY.	WILLIAM D. HAYDEN.
CHARLES C. FOLSOM.	JOSEPH J. GILES.
EDWARD MCGARR.	DENNIS KELLEY.
CHRIS. C. CAVANAGH.	CHARLES L. ELLIS.
EUGENE A. CARTER.	CLARENCE TUCKER.
PATRICK/J. GARVIN.	GEORGE H. CARLETON.

FENCE VIEWERS.

LAMBERT M. MAYNARD.

CHARLES M. BERRY.

MEASURER OF WOOD AND BARK.

SAMUEL T. LITTLEFIELD.

MEASURERS OF GRAIN.

JOHN CRAIG.

JAMES McFADZEAN.

**PUBLIC WEIGHER IN CHARGE OF CITY SCALES, UNION
SQUARE.**

FULTON O'BRION.

WEIGHERS OF COAL.

CHARLES H. TUCKER.	CLINTON E. SOMES.
GEORGE E. SLACK.	SIDNEY E. HAYDEN.
ROBERT A. YERXA.	IRWIN L. SMITH.
FRANK A. TEELE.	CHARLES P. BRANN.
ALFRED A. WALDRON.	AMHERST F. DURKEE.
THOMAS W. LANE.	CHARLES E. ROCKWELL.
JOEL J. FISHER.	C. EDWARD BYRNES.
CHARLES H. WARD.	JOHN A. MARSH.
NATHAN E. WILLIS.	GEORGE H. MOORE.
H. CARLETON ABBOTT.	JOHN J. MASTERS.
EDGAR H. BARKER.	GEORGE GROGAN.
WILLIAM HOULAHAN.	ROBERT A. MURRAY.
OTTO POWLOWSKI.	CHARLES W. FURLONG.

WEIGHERS OF BEEF.

D. WARNER DANFORTH.	CHARLES H. TUCKER.
FREDERICK A. GEILING.	GEORGE E. SLACK.
CLARENCE EDWARDS.	CLINTON E. SOMES.

THOMAS K. MARTIN.	EDWARD M. WHEELER.
AMHERST F. DURKEE.	THOMAS W. LANE.
CHARLES E. ROCKWELL.	JOEL J. FISHER.
CHARLES H. WARD.	C. EDWARD BYRNES.
ALFRED A. WALDRON.	JOHN J. MASTERS.
WILLIAM HOULAHAN.	GEORGE GROGAN.
OTTO POWLOWSKI.	ROBERT A. MURRAY.
CHARLES W. FURLONG.	

POLICE DEPARTMENT.

MELVILLE C. PARKHURST, *Chief.*

ROBERT R. PERRY, *Captain.*

EDWARD MCGARR, *Sergt.*

CHRIS. C. CAVANAGH, *Sergt.*

DENNIS KELLEY, *Sergt.*

EUGENE A. CARTER, *Sergt.*

JOHN E. FULLER.	JOHN HAFFORD.
ALBION L. STAPLES.	GEORGE A. BODGE.
JUDSON W. OLIVER.	GEORGE H. CARLETON.
GEORGE W. BEAN.	FRANCIS A. PERKINS.
GEORGE L. SMITH.	CHARLES S. THRASHER.
EDWARD M. CARTER.	WILLIAM H. JOHNSTON.
CHARLES E. WOODMAN.	JOHN G. KNIGHT.
ARTHUR E. KEATING.	THEODORE E. HERON.
EUGENE H. GAMMON.	JACOB W. SKINNER.
IRA S. CARLTON.	DAVID A. BOLTON.
CHARLES W. STEVENS.	JAMES M. HARMON.
ULYSSES G. SKINNER.	MICHAEL T. KENNEDY.
JAMES J. POLLARD.	EZRA A. DODGE.
SAMUEL BURNS.	DANIEL G. SIMONS.
JOTHAM CHISHOLM.	FRED H. GOOGINS.
ELMER E. DREW.	WILLIAM J. DAVIDSON.
EUGENE A. WOODSUM.	JOHN A. DADMUN.
PHINEAS W. SKINNER.	GEORGE L. RICE.

MELVILLE C. PARKHURST, *Lockup Keeper.*

RESERVE POLICE.

HERBERT HILTON.	MYRON S. GOTT.
JOHN A. RAY.	CHARLES W. REICK.

MAYOR'S INAUGURAL ADDRESS.

CITY OF SOMERVILLE.

IN CONVENTION OF THE CITY COUNCIL, {
January 2, 1899. }

RESOLVED: That His Honor the Mayor be and he hereby is requested to furnish the Committee on Printing with a copy of his inaugural address for publication.

Read twice and adopted.

GEORGE I. VINCENT, *Clerk.*

INAUGURAL ADDRESS

DELIVERED BY

HON. GEORGE O. PROCTOR,

JANUARY 2, 1899.

GENTLEMEN OF THE CITY COUNCIL :—

We are met at the beginning of this year to assume the manifold duties that have been entrusted to our care by our fellow-citizens. Great confidence has been reposed in us, and important is our responsibility. I desire, in the first place, to acknowledge my profound gratitude for this expression of confidence and my appreciation of the high honor of being chosen to follow the noble men who have filled the office of Mayor of Somerville. It is not to be expected that I shall fill the place just made vacant. I can only promise faithful service and the best that I am able to command. Great as is the honor of being elected to such position, it would be a greater disgrace to fail in the discharge of any of its duties.

We are beginning a new year in the life of our city and nation with the most promising prospects. Since the inauguration of our last City Council, the country has passed through one of the most trying and dangerous periods of its history. By the wise leadership of our patriotic President and the unanimous support of a united people, we have triumphed over all obstacles, and have attained a glorious peace. Prosperity

beyond our most sanguine expectations now seems to be a certainty.

It is only right, in passing, to speak of the noble work done by the sons of Somerville in the momentous events of the year. In all branches of the service and under varying circumstances they have contributed their part. We have no means of ascertaining the number who offered themselves to their country, but it must have been several hundred. Almost every day we hear of the gallant deeds of some of our boys, which have not before come to our attention. Of the Somerville company I have only the highest praise. The men of Company M and the others in the Eighth Massachusetts Regiment volunteered their services in the very beginning. It was not their fault that they did not go into action. Like scores of other gallant regiments, their active participation was not necessary, but it was the reserve strength of the nation expressed by the presence of the great army encamped in the South which made an early termination of the war inevitable. To their everlasting honor, it should be said that they were ready to emulate the deeds of heroism and sacrifice which have won the admiration of the world. They had their sacrifices,—loss of position, loss of health, and even loss of life,—which a grateful country and an admiring city will appreciate. And, what is more, they are still making their sacrifice for whatever duty the government may call them.

The first and most important, though perhaps not the most interesting, subject to be considered in this address is that of the finances. I present herewith statistics prepared by the City Treasurer, which show the financial condition of the city, etc. :—

THE CITY'S FINANCES.

FUNDED DEBT.—The Funded Debt of the city, January 1, 1898, was as follows :—

Funded Debt, City Loan	\$1,031,000.00
Funded Debt, Sewer Loan	148,000.00
Funded Debt, Paving Loan	75,000.00
Funded Debt, Water Loan	294,000.00
Total Funded Debt	<u>\$1,548,000.00</u>

The debt was increased during the year by appropriations made by the City Council as follows :—

Armory	\$15,000.00
Electrical Department, Fire Alarm, and Police Patrol Boxes	1,500.00
Fire Department, Fire Station, Clarendon Hill	15,000.00
Highways, Paving Webster avenue, Fitchburg Railroad to Cambridge line	7,000.00
Highways, Steam Road Roller	3,500.00
Lincoln Park	5,000.00
Prospect Hill Park	20,000.00
Schoolhouse, Spring Hill District	6,000.00
Schoolhouse, English High	1,000.00
Schoolhouse, Prescott, heating and ventilating	6,000.00
Schoolhouse, Ward Two	34,000.00
Schoolhouse, Burns Addition	12,000.00
Sidewalks	5,000.00
Sewers, Construction	25,000.00
Support of Poor, Almshouse	20,000.00
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Total amount of increase	\$176,000.00

The debt was reduced during the year by payments as follows :—

Funded Debt, City Loan	\$138,000.00
Funded Debt, Sewer Loan	7,000.00
Funded Debt, Paving Loan	5,000.00
Funded Debt, Water Loan	22,000.00
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Total amount of reduction	\$172,000.00

Leaving the funded debt of the city January 1, 1899, \$1,552,000 (an increase of \$4,000 over the previous year), classified as follows :—

City Loan Bonds bearing interest at 4 per cent.	\$907,000.00
City Loan Bonds bearing interest at 4½ per cent.	137,000.00
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<i>Amount carried forward</i>	\$1,044,000.00

<i>Amount brought forward</i>	\$1,044,000.00
City Loan Sewer Bonds bearing interest at 4 per cent.	153,000.00
City Loan Sewer Bonds bearing interest at 4½ per cent.	13,000.00
City Loan Paving Bonds bearing interest at 4 per cent.	70,000.00
Water Loan Bonds bearing interest at 4 per cent.	234,000.00
Water Loan Bonds bearing interest at 5 per cent.	28,000.00
Water Loan Bonds bearing interest at 5½ per cent.	10,000.00
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Total funded debt, January 1, 1899	\$1,552,000.00

The foregoing amount represents the net indebtedness of the city, the unfunded liabilities for temporary loans, etc., being equalled by its assets, which consist of uncollected taxes, sewer and sidewalks assessments, etc.

TAXES. — The assessors' warrant for the tax levy assessed upon the polls and estates of the inhabitants, as of May 1, 1898, was duly submitted to the collector.

The total amount of taxable property was \$50,739,700, and the rate established was \$17.90 on each \$1,000 valuation, as follows: —

Real Estate, valuation	\$47,015,775.00
Personal Estate, valuation	3,723,925.00
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Total valuation	\$50,739,700.00
At a rate of \$17.90 on each \$1,000 val- uation	\$908,240.63
Polls, 16,281 at \$2.00	32,562.00
Street watering, 334,612 linear feet at 4c.	13,384.48
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Total amount of tax levy	\$954,187.11

APPROPRIATIONS. — The amount of revenue provided by the tax levy may properly be classified as follows:—

	Rate as- sessed on \$1,000 valu- ation.	Amount.
For Current expenses within the con- trol of the city council	\$6.774	\$343,700.00
Current expenses of depart- ments over which the city council has no control	5.035	255,500.00
Debt requirements	4.636	235,200.00
State and county taxes, Metropol- itan sewer assessments, and overlay account	1.455	73,840.63
		<hr/>
For total amount on a valuation of \$50,739,700 at \$17.90		\$908,240.63
Poll taxes assessed credited to State and County		32,562.00
Street watering in excess of amount appropriated		13,384.48
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Total amount of tax levy		\$954,187.11

The appropriations to the various accounts were as follows:—

ACCOUNTS WITHIN THE CONTROL OF THE CITY COUNCIL.

Electrical Department	\$ 6,400.00
Engineering Department	9,000.00
Fire Department	56,000.00
Highways	65,000.00
Indigent Soldiers and Sailors	400.00
Miscellaneous	9,000.00
Police	48,500.00
Police Station Incidentals	2,000.00
Printing and Stationery	6,500.00
Public Grounds	6,000.00
Relief and Burial of Indigent Soldiers and Sailors	9,000.00
Salaries	8,000.00
School Contingent, Janitors' Salaries	17,000.00
<i>Amount carried forward</i>	<hr/> \$242,800.00

<i>Amount brought forward</i>	\$242,800.00
School Fuel	10,000.00
Schoolhouse Incidentals	17,000.00
Sewers, Maintenance	7,000.00
Sidewalks	10,000.00
Street Lights	45,000.00
Watering Streets	3,500.00
Excess and Deficiency	8,400.00

Total amount assessed on a valuation of \$50,739,700 at \$6.774 \$343,700.00

ACCOUNTS OVER WHICH THE CITY COUNCIL HAS NO CONTROL.

	Rate per \$1,000 valuation.	Amount.
Health Department	\$0.394	\$ 20,000.00
Public Library	.147	7,500.00
School Contingent	4.10	18,000.00
School Teachers' Salaries			190,000.00
Support of Poor	.394	20,000.00

Total amount assessed on a valuation of \$50,739,700.00 at \$5.035 \$255,500.00

ACCOUNTS PROVIDING FOR DEBT REQUIREMENTS.

Interest	\$ 80,000.00
Reduction of Funded Debt	155,200.00

Total amount assessed on a valuation of \$50,739,700 at \$4.636 \$235,200.00

ACCOUNTS PROVIDING FOR STATE AND COUNTY TAXES, ETC.

County Tax	\$44,894.56	
Deduct one half of polls	16,281.00	
		\$28,613.56
State Tax	\$27,075 00	
Deduct one half of polls	16,281.00	
		10,794.00
<i>Amount carried forward</i>		\$39,407.56

<i>Amount brought forward</i>	\$39,407.56
Metropolitan Sewer Assessment, 1898	31,566.31
Non-Resident Bank Stock	1,043.12
Overlay and Abatement	1,823.64
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Total amount assessed on a valuation of \$50,739,700 at \$1.455	\$73,840.63

INCOME.

In addition to the above, the following appropriations were made from the various income accounts:—

Salaries, the amount received of the State for corporation and bank taxes	\$27,463.89
Police, the amount received of the clerk of the court for fines, costs, etc. . . .	3,376.50
Public Library, the amount received of the county for dog licenses	2,268.86
Water Maintenance, from the income of the water works	60,000.00
Water Maintenance, from the income of the water works of 1897	5,278.88
Water Works Extension, from the income of the water works	20,000.00
Water Loan Interest, from the income of the water works	11,925.00
Reduction of Funded Debt, from the income of the water works, premium on bonds, etc.	22,000.00
Metropolitan Water Assessment, from the income of the water works	14,250.19
Sewers, construction, from the income of the water works	67,280.96
Tax Levy	954,187.11
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Total amount of income and appropriations for the year \$1,188,031.39

The following tables, giving a condensed history of the city's finances, are herewith presented for reference:—

YEAR.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt.	Tax Rate per \$1,000 Valuation on Account of Reduction of Funded Debt.
Town	\$ 593,349	. . .	. . .	. . .
Dec. 31, 1872	643,354	\$ 50,005	. . .	. . .
“ 1873	809,354	166,000	. . .	. . .
“ 1874	1,419,854	610,500	. . .	. . .
“ 1875	1,571,854	152,000	. . .	. . .
“ 1876	1,606,854	45,000	\$ 55,130.62	\$2.07
“ 1877	1,606,854	10,000	58,828.58	2.30
“ 1878	1,596,854	. . .	61,004.64	2.91
“ 1879	1,585,000	. . .	64,915.76	3.42
“ 1880	1,585,000	. . .	55,739.35	2.72
“ 1881	1,585,000	. . .	58,498.64	2.59
“ 1882	1,585,000	. . .	61,390.59	2.65
“ 1883	1,585,000	. . .	64,479.01	2.70
“ 1884	1,585,000	. . .	67,719.33	2.78
“ 1885	*1,525,000	. . .	71,305.66	2.87
“ 1886	1,525,000	. . .	66,894.23	2.57
“ 1887	1,525,000	. . .	70,252.88	2.56
“ 1888	*860,500	25,000	37,000.00	1.28
“ 1889	952,500	130,000	38,000.00	1.27
“ 1890	1,057,500	150,000	45,000.00	1.38
“ 1891	1,045,500	45,000	57,000.00	1.55
“ 1892	1,194,500	253,000	104,000.00	2.73
“ 1893	1,279,500	222,000	137,000.00	3.27
“ 1894	1,344,500	172,000	107,000.00	2.42
“ 1895	1,506,500	247,000	85,000.00	1.83
“ 1896	1,531,000	177,000	152,500.00	3.11
“ 1897	1,548,000	167,000	150,000.00	2.39
“ 1898	1,552,000	176,000	172,000.00	3.39

*Sinking Fund applied.

YEAR.	VALUATION.	TAX LEVY.	RATE.
1872 . .	\$22,755,325 . .	\$274,374.45 . .	\$13.00
1873 . .	29,643,100 . .	389,214.48 . .	12.80
1874 . .	30,837,700 . .	473,235.50 . .	15.00
1875 . .	31,317,000 . .	518,161.40 . .	16.20
1876 . .	26,573,400 . .	504,745.24 . .	18.60
1877 . .	25,479,400 . .	471,789.14 . .	18.10
1878 . .	20,976,900 . .	409,497.10 . .	19.00
1879 . .	18,950,100 . .	352,553.80 . .	18.00
1880 . .	20,458,100 . .	402,927.71 . .	19.10
1881 . .	22,569,100 . .	452,945.45 . .	19.50
1882 . .	23,162,200 . .	425,721.16 . .	17.80
1883 . .	23,812,900 . .	411,645.43 . .	16.70
1884 . .	24,331,100 . .	418,750.26 . .	16.60
1885 . .	24,878,400 . .	428,605.44 . .	16.60
1886 . .	26,003,200 . .	416,987.28 . .	15.40
1887 . .	27,471,800 . .	424,309.14 . .	14.80
1888 . .	28,765,400 . .	421,458.60 . .	14.00
1889 . .	30,004,600 . .	440,324.40 . .	14.00
1890 . .	32,557,500 . .	447,704.00 . .	14.00
1891 . .	36,843,400 . .	539,137.10 . .	14.00
1892 . .	38,093,100 . .	596,357.50 . .	15.00
1893 . .	41,873,600 . .	675,886.80 . .	15.50
1894 . .	44,142,900 . .	721,165.54 . .	15.70
1895 . .	46,506,300 . .	745,609.02 . .	15.40
1896 . .	49,070,800 . .	786,412.32 . .	15.40
1897 . .	50,231,000 . .	913,574.42 . .	17.30
1898 . .	50,739,700 . .	954,187.11 . .	17.90

By the foregoing tables it appears that the funded debt of the city is \$1,552,000, an increase of but \$4,000 over the previous year; of this sum, \$1,280,000 represents the total city debt, and \$272,000 represents the entire water loan debt. There is included in the city's funded debt the sum of \$158,000, authorized by previous acts of the Legislature to be borrowed outside of the debt limit provided by the statutes. With the present outlook, it seems to me reasonable to believe that our funded debt need not be increased in the near future. This method of raising funds should be resorted to only in case of absolute necessity; and while our debt, outside of the limit established by State law, is not very large in amount, I hope that we may find a way, in the near future, of reducing this debt, rather than of increasing it.

The borrowing capacity of the city is now about \$119,000. Considering the many permanent improvements which have so recently been made, I hope you may find this amount sufficient for the needs of the city during the current year. I would suggest that such appropriations as it is found advisable to make from funded debt account be based upon the present borrowing capacity, rather than upon the accumulations maturing later in the year. I think it very desirable that permanent improvements be commenced early in the season, and completed, if possible, before winter weather sets in. By making our annual issue of bonds in January or April, instead of delaying until July, we may avoid the very questionable practice of constructing public buildings during the winter season. If this suggestion meets with your approval, it will of course necessitate the exercise of economy in the appropriations of the present year only; for after that time we shall have an available borrowing capacity at the beginning of the year, which, under the present method, is not attainable until the month of July.

The prospects for smaller expenditures, and consequently a lower tax rate this year, are unusually good. In the first place, many of the expensive improvements which the city has long needed have been provided during the last five or six years; and similar expenditures will not be necessary.

We shall have no deficit, to begin with, but a balance from last year's appropriation of several thousand dollars.

Then, again, there will be a new source of revenue, that provided by a statute of 1898, which will give to Somerville something more than \$20,000 from the tax on the stock of the Boston Elevated Railway Company and leased lines. It is possible that a double installment of this tax may be payable this year. This, the law stipulates, shall be expended for highways, in addition to the regular appropriation.

A smaller appropriation will be necessary this year for the reduction of funded debt account than last year.

And, finally, a greater portion of the surplus water revenue will be available for ordinary expenses. Last year \$75,000 of this was used in the building of sewers and storm drains, only a comparatively small part of which will be necessary this year

In the matter of water and water revenue, the city is to be congratulated. Instead of paying high tribute to Boston for an inferior and limited water supply, we have secured pure water in great quantities and at no increase of cost, in fact, with the possibility of an early reduction in the rates.

The small increase in taxable property made last year will probably be repeated this year, but the approaching business prosperity, we hope, will soon put things on a better basis.

SEWERS AND STORM DRAINS.

The most notable work of the year 1898 has been in the construction of sewers and storm drains. Probably the past season has seen more large work accomplished than any other year since the engineering department was organized. On construction account more than \$105,000 was expended.

It is with a great deal of satisfaction that we can contemplate the benefits which have already been conferred. By far the greater part of the work was carried on with appropriations from the surplus revenues of the water department, a source which it is hoped will be available during the coming year for the extension of this line of work and other much needed improvements. Most of it consisted of storm drains built for the purpose of relieving the overcharged sewerage system and the many flooded cellars in the low areas in times of heavy rainfall. Some of these flooded districts have been permanently relieved and beginnings made for the relief of others,—improvements of the greatest value to the health and convenience of the people.

In January, 1898, a portion of the main storm-water outlet for the eastern district of the city, begun the year before and extending in Winthrop avenue from Mystic avenue to Broadway, was completed. At the junction of Winthrop avenue and Broadway, construction was begun early last summer on two large branches. One of these extended through Broadway and Cross street to the corner of Pearl, a distance of 1,877.5 feet. The structure was built of brick and concrete masonry, three feet six inches in diameter, and has overflow connections at all crossings with the old sewerage system on its route. The total

cost of this branch, which effectually provides relief for a large section of East Somerville, was \$15,722.

The other branch extends westerly through Broadway, Sargent avenue, Sherman court, Marshall street, Gilman square, and Medford street to the corner of School street, a distance of 3,800 feet. It is built similarly to the other branch, with overflow connections. In size it varies from five and one-half feet to four feet in diameter. It cost \$36,238, and now has remedied the nuisance of sewer-flooded cellars, which have long been suffered by the residents of a large territory.

Of all the great storm-drain problems which have confronted the city government, the greatest is the proper disposal of the storm waters in the southerly and southwesterly sides of the city. Beginnings were made the past year, first by the construction of a storm-relief drain from a point in Union square through Bow and Summer streets to the junction of School street, a distance of 2,080 feet. This structure varies in size from five feet to three feet four inches in diameter, and will wholly relieve the flooding of streets and cellars formerly experienced in that section during heavy rains.

For the purpose of taking care of another portion of this watershed area, namely, the very flat district in the vicinity of Union square and extending southwesterly to the Cambridge line, a different plan has been adopted. This is the construction of a small and entirely separate system of sewers for house drainage only, and the utilizing of the present sewers for storm water. Under such a plan, with the houses connected with the new system, and the old system, which is larger, run under a head, there will be no danger of flooding cellars. The main trunk line of this separate sewer has been constructed in the northerly sidewalk on Somerville avenue from Poplar street, its outlet into the Metropolitan sewer, northwesterly to Prospect street, a distance of 1,846 feet. The sewer is an egg-shaped structure, two feet two inches by three feet three inches in size. This system is designed to extend northerly and westerly, from time to time, relieving the flooded cellars, as far as completed each year.

A branch of this system extending from the present terminus on Somerville avenue through Prospect and Newton streets to Concord square and vicinity, with its lateral pipe sewers, should be constructed, as the district is known as the oldest and worst flooded in the city. The expense would be comparatively small, considering the area covered and the benefit derived from the proposed extension.

The only outlet for storm water and sewerage overflow for the largest part of the city is through Bridge street, Cambridge, into the Charles river. The City Engineer reports that this outlet is entirely inadequate for the two cities, and for the purpose of giving Somerville as much relief as possible, a large storm-water drain should be constructed from the Somerville avenue sewer at the Cambridge line, across private lands to the nearest tide water, Miller's river. If this is necessary, this line should be secured and the outlet constructed at once, as every year of delay will make the undertaking more expensive, as well as affording no relief in times of storm. By co-operation with the packing-house companies, probably the expense of construction would be made much less, as these companies will be obliged, in the near future, to find an outlet into Miller's river for large quantities of water which is now being discharged into the Metropolitan sewer at Poplar street.

To revert to the other side of the city, I would call attention to the desirability of constructing a permanent outlet for the Winthrop avenue storm drain. The present outlet is an open ditch across the marsh land, belonging to F. O. Reed and the Boston & Maine Railroad Company, to the Mystic river. Negotiations with the railroad company have been pending for some time past for the construction of a permanent structure on its land, in place of the open ditch, and probably the matter will be arranged satisfactorily to the city within a short time. On the other section through the Reed land, the city is paying annually \$300 for the right of drainage, which is as much as the interest on the total expense of constructing this outlet permanently.

Still another section of the city which at present has no storm-drainage system, and is flooded at times, is the portion

which extends on both sides of the Boston & Lowell and Arlington branch railroad, between Central and Cedar streets, and even as far west as Grove street. This section is directly connected with the storm-drainage system completed this year and just described, which is designed to receive at Gilman square all the storm water for this section discharging along the line of the railroad valley, and which is the only means of relief. As the railroad company would derive a large part of the benefit, a corresponding share of the expense should be borne by the company. With this drain completed and the newly finished Marshall street and Cross street branches of the Winthrop avenue drain in operation, the whole northeasterly part of the city would be permanently cared for.

The total length of storm drains constructed the past year was 8,077 feet, and the total length now in the city is 2.8 miles. Something more than three miles of sewers were built during the year, including several in the new district between Clarendon hill and Alewife brook. The total length of sewers now in the city is 69.25 miles. Cost of maintenance in 1898 was \$7,600.

HIGHWAYS.

The condition of the highways of the city should receive your most careful attention during the present year. Next to the schools, the streets have the largest expenditures from the municipal treasury. There is little new that can be said as to the advantages of having good streets. Ours are not as good as one would like to see them, and I trust that you will be able to give them the improvement which they need, and which the public is loud in demanding.

One of the first undertakings should be the repair of Bow and Summer streets, which was made necessary last fall by the relocation and the change in grade of the car tracks. It is also desirable that Highland avenue throughout its entire length be put in a good condition for travel. Other main highways on which there is a large amount of travel should receive first care, rather than some of the lesser streets, in order to benefit the great mass of the people. We all use the main streets, while

comparatively few travel during the twenty-four hours over the side streets.

Ten new streets have been accepted within the past year, having a total length of 6,423 feet, but only one of them has been constructed. There are now fifteen miles of accepted streets which have received no attention, except to keep them in a safe and passable condition for public travel. One of the principal changes in the highways was the lowering of the grade and the construction of 900 feet of Middlesex avenue. This was done by the Metropolitan Park Commission to bring the street to the level of the adjoining boulevard.

Webster avenue has been paved with granite blocks, from the Fitchburg railroad tracks to the Cambridge line, a distance of about one quarter of a mile. The present total of paved streets is about two and a half miles. I believe in paving streets where there is a large amount of heavy travel. On some that is the only kind of roadbed that will survive, and is the cheapest in the end. One side of Washington street, from Tufts street to the Charlestown line, ought to be paved; but I can make no recommendation as yet, till we know definitely when the Massachusetts Pipe Line Company will lay its two thirty-six-inch gas mains through this street.

Various improvements by the transportation companies are planned for this year which will affect our streets. An additional track is contemplated on the Somerville avenue line of electric cars, from Union square to Davis square, and new bridges at Beacon and School streets will be built by the steam railroad corporations. The Superintendent of Streets recommends the construction of a new bridge across the Mystic river at Boston avenue. The street railway corporation is considering a petition to extend its lines from Winter Hill to Tufts College and West Medford by way of Broadway and Boston avenue; also to West Somerville through Powder House square.

SIDEWALKS.

In addition to the usual appropriation of \$10,000 for sidewalks, \$5,000 was appropriated for the same purpose on funded

debt account. These sums, together with a corresponding aggregate assessed upon the abutters, made about \$30,000 available last year for sidewalks. More work was done in this direction than during any previous year. The most important was the sidewalk on the northerly side of Highland avenue, by which good pedestrian travel has been rendered possible from Davis square to the City Hall and beyond. Some 18,432 feet of edgestones were laid, and 16,984 square yards of brick sidewalk. Including the brick sidewalks relaid, more than 20,000 square yards of bricks were laid, or more than four acres. Here I may add that, for every foot of edgestones laid, there is a diminution in the amount available for general work on the streets. The reason is that the paving of the gutters, rendered necessary by the construction of the sidewalk, is paid for out of the general highway appropriation.

There are now seventy-five and five-tenths miles of sidewalk with edgestones, including forty-nine miles of brick sidewalk. With the large amount expended on sidewalks last year, I believe that we should get along with a smaller appropriation in this department this year, and give more attention to the construction and repair of streets.

POLICE DEPARTMENT.

Perhaps the most important branch of a city's service is its police department, and I believe that Somerville is behind no city in the State in the character and efficiency of the men who guard its people and property. The department is well managed, and is to be commended for the good work which it is doing in maintaining order and in enforcing the laws, notwithstanding the small number of patrolmen and the large territory they cover. Particularly is it to be praised for its vigilance in enforcing the liquor laws, in consequence of which there have been few violations. I would recommend a continuance of the present policy, and will do all in my power to prevent the illegal sale of liquor.

There is one class of crime that I feel should be more severely dealt with. Some measure should be adopted to prevent the trespassing on private grounds, the stealing of fruit,

flowers, etc., the malicious breaking of glass, and other deprivations of the juvenile offenders. It is not only an expensive and serious annoyance to our citizens, but also an offense that, if permitted with the juvenile, leads the way to more serious crime, and produces the hardened criminal.

The force numbers forty-six, made up as follows : A chief, a captain, four sergeants, thirty-six regular patrolmen, and four reserve patrolmen. All the reserve patrolmen are now regularly employed. On account of vacancies in the regular force, four promotions have been made since 1895 from the reserve force, which originally numbered eight. No appointments have been made to fill the four vacancies in the reserve force. No additions have been made to the regular force since 1894. I would recommend, therefore, that provision be made by the City Council for the payment of the full reserve force, so that by appointment the vacancies may be filled. The regular force is too small, and should be increased if the resources will permit. One of the patrolmen, Eugene H. Gammons, having enlisted in the Somerville company, Eighth Massachusetts regiment, for two years of the war, there is now one more vacancy in the working force of the department.

WATER DEPARTMENT.

The year just past has been a fruitful one in the water department work, witnessing the change from the Mystic water, furnished by the city of Boston, to the Nashua river water, furnished by the Commonwealth through the Metropolitan Water Board. By this change we have secured a water not quite so transparent as the old, but one that is practically pure and of unlimited supply, instead of the highly contaminated and insufficient Mystic. Beginning January 1, all water relations with the city of Boston ceased, and the entire work of the department has been carried on through our own offices. All the clerical work, including the billing and collecting of more than 11,000 water accounts, representing over \$200,000, has been performed at the Somerville City Hall, adding greatly to the convenience of the water takers, who have heretofore

been obliged to pay their bills and transact other business connected with the department at the Boston City Hall. The pecuniary advantage of this change has been of the greatest importance to Somerville, giving us the advantage of a saving of about \$100,000, which has enabled us to undertake the great storm-drain improvements, and to apply part of the surplus revenue to the improvement of the water service, especially the replacing of old and dangerous cement water mains with larger size iron pipes.

During 1898, 22,636 feet of cement-lined pipes were replaced by iron mains, and 7,495 feet of mains laid in extending the water-works system, — in all about six miles of pipe. About nine miles of the old pipe still remains, some of which is in a poor condition. Having these new and larger pipes will result in a benefit in several ways. The inconvenience of frequent breaks and the expense of repairs will be avoided. The newly-constructed streets will not have to be torn up so often. Shutting off the water in a whole street, for several hours pending repairs, with the increased danger from fires, will not be necessary, and additional fire protection will be rendered by the greater volume of water supplied.

A beginning has been made this year toward improving the distributing system by getting rid of the numerous dead ends existing throughout the city. Nineteen blow-offs have been constructed, and a number of dead ends streets have been connected into the circulating system, thereby greatly improving the quality of the water in the districts affected. During the year just closed the department has erected and occupied a handsome new building for stables, shops, etc., at the city farm, and has abandoned the old quarters at the corner of Prospect street and Somerville avenue, which have reverted to the custody of the City Council. Portions of the old buildings have since been devoted to the use of the sewer department, and another part has been leased, at a nominal rental, to the Somerville Veteran Firemen's Association.

Before many months another change will take place in the water department by the transfer of the high-service system to the control of the Metropolitan Water Board. This will probably not occur until after the completion of the high-service

reservoir in the Middlesex Fells, which will supply by gravitation the northern high-service district. Beginning January 1 of the present year (1899), the first steps were taken. The Metropolitan Water Board, desiring to give the district the benefit of the high-service system, made arrangements with the various cities for a joint use of the local pumping stations for the whole district, which gives practically the same result as though the new reservoir were in operation. When this undertaking is completed, the local high-service pumps will be discontinued. A higher average of pressure for day and night will be given throughout our whole local high-service system, which will be another additional fire protection. I would suggest considering the advisability of a plan for utilizing this extra pressure in the matter of increased fire protection by a comparatively small expenditure of money. A separate system of high pressure water mains could be laid, covering the dangerous fire districts in the low parts of the city, and the fire steamers located for the use principally of the high districts, thereby saving the extra expense of new fire apparatus and buildings, and also the maintenance in the future.

FIRE DEPARTMENT.

By means of unexampled progress during the last few years, the Somerville fire department has reached a state of efficiency which will favorably compare with the best departments in the State. The manual force, including the chief and assistant engineer, consists of 103 men, and the apparatus in service includes three fire engines, two of which are accompanied by hose wagons, and one by a combination apparatus of chemical, ladder, and hose ; also three other hose wagons, two ladder trucks, and a chemical engine, besides one spare ladder truck and two hose reels, which can be used in case of accident to the regular apparatus. The efficiency of the fire department ought to be a good argument with the underwriters for giving us lower rates of insurance. Within a few days the ability of the department to cope with fires successfully has been increased by the extension of the high-service system to College and Clarendon hills, thus completing the high service for all the high land in the city, and

giving all sections a good pressure. Improvements of this kind, and also the increased pressure all over the city, resulting from the introduction of the Metropolitan water, tend to do away with the necessity of maintaining expensive steam fire engines. In many sections of the city, where there are no high buildings, the hydrant pressure is all that is needed in ordinary fires. For this reason, and to save valuable time in the early stages of a fire, I would recommend the establishment of more hydrants throughout the city, whenever any additional facilities are contemplated.

The several buildings used by the department are in good condition. One new building, a two-door fire station at Clarendon hill, was begun during the past year, and will be ready for occupancy early in the spring. For the equipment of this building, the Chief Engineer recommends that the combination chemical hose and ladder wagon, now stationed at the house of engine 4, be transferred to the new station on Clarendon hill. The Chief makes these further recommendations: That a hose wagon be placed in the house of engine 4, to be run in connection with that engine; that additional fire-alarm boxes be placed in circuit in places now remote from any signal box; that a bell and striker be placed on the tower of engine 2 house, to be used instead of the bell and striker on the Franklin street church, the officers of the church being anxious for a discontinuance of the ringing of the alarm from the church tower; that a few keyless doors be placed on the signal boxes annually; and that proper steps be taken toward placing all electric wires underground, as they are dangerous in times of heavy storm, and at all times are a hindrance to the department, especially in the operation of the ladders. These are all important recommendations, which I offer for your consideration.

I would recommend the consideration of the question of establishing fire limits within which only such buildings can be erected as conform to certain regulations guarding against the spread of fire; also the adoption of more stringent building rules for the whole city. Especially in regard to shingle roofs some action should be taken. In the crowded sections of the city they are the greatest menace to the public safety.

POOR DEPARTMENT AND ALMSHOUSE.

The Overseers of the Poor have had appropriations the past year amounting to \$23,000, and, owing to the great drafts in the department, have expended upward of \$28,000. A total of 306 families, or 1,244 individuals, were aided; eighty-five persons were given full support by the city. The long-continued hard times are largely responsible for the size of these figures, a condition of things which we hope will not exist much longer.

The almshouse question, which has been agitated for a series of years, has come nearer a settlement than ever before. The sum of \$20,000 was appropriated for the purpose, and the committee on public property was authorized by an order approved July 14, 1898, to purchase the Levi Russell property on Broadway and North street for \$18,000 and the taxes of 1898. This property includes ten acres and the large homestead buildings near Alewife brook. The City Solicitor has found a difficulty in the title, and the committee recommends that the Legislature be petitioned for authority to take the property. This matter will doubtless come to your attention at an early date. It is possible that there may be an objection to such a procedure, as the land so taken could be used for almshouse purposes only, and there might come a time when some portion would be wanted for other purposes.

HEALTH OF THE CITY.

It is with the greatest of pleasure that I can state that the health conditions of the city are now at the best. The vigilance of the health officials has done much, in conjunction with our natural advantages, to bring about good results. Nuisances of various kinds have been abated, and the Board of Health rules rigidly enforced against dangers of contagion. There have been no serious outbreaks of contagious diseases of any kind during the year; in fact, the total number of cases reported is less than one half the number reported during the year 1897. This is all the more remarkable when we remember that 1897 showed a gratifying reduction in contagious diseases from 1896. The general work of the department,

including the collection of ashes and offal, has shown steady improvement. The members of the Board of Health are honored citizens, devoted to the interests in their charge.

STREET WATERING.

In the matter of street watering, I would recommend that the present policy of watering seven days in the week, when necessary, be continued. It has been said that the men and horses should not be required to work seven days a week. As a fact they do not average at street watering during the season more than five days, and on Sundays and holidays street watering in a city like Somerville is most needed. This particular department has a good equipment, capable of very effective work. While the streets during the past year have been better cared for than in previous years, there is a chance for improvement in street watering. Especially is it necessary to guard against the excessive use of water, and the application of water when the streets do not need it,—practices which it is often easier to describe than to prevent, considering the methods of doing the work.

STREET LIGHTING.

The question of street lighting will probably not vex your honorable bodies during the present year, as it has in the past year or two. Within a few days a two-years' contract has been made with the Somerville Electric Light Company for at least 361 arc lamps at \$110 per year, and at least 212 incandescent lamps at \$25 and \$35 per year. Contracts were also made for about 120 Welsbach gas lamps. There has been a great deal of controversy over the superiority of the Welsbach or incandescent lamps. A sufficient number, however, of both kinds are now in use to judge of their comparative merits.

GRADE CROSSINGS.

Probably in the near future the question of abolishing all grade crossings on the line of the Fitchburg Railroad in this city will be agitated, constituting one of the gravest problems which now confront the city. During the past year considerable work was done by the City Engineer's department in this

direction, in conjunction with the Chief Engineer of the Fitchburg railroad, and rough plans and designs have already been made by the railroad company. The need of relief is greatest at Somerville avenue; the next in importance is the Webster avenue crossing. Besides the element of danger, valuable time is lost at these crossings by having to wait for shifting or passing trains. The matter should be thoroughly investigated as soon as possible, as the longer the delay the more expensive will be the improvement.

On the line of the Lexington and Arlington branch of the Boston & Lowell railroad, the grade crossings at the few intersecting streets could be abolished at the present time at a comparatively small expense, while the land at most of these points is unobstructed by buildings. As the city pays only ten per cent. of the entire cost of this work, the income from the increased valuation in these localities, it is thought, would soon equal the original outlay. The proposed relocation of the West Somerville station and changes in the highways, it is understood, will materially diminish the dangers and inconveniences at Davis square, and perhaps answer the question as to the blind crossing at Thorndike street.

PUBLIC SCHOOLS.

While the City Council has little to do with the direct management or control of the public schools, its members have more than a personal interest in them, for the reason that the appropriations for this important department are made by your honorable bodies. In a measure, we are held responsible for the prosperity of the schools, whatever authority we may have in the spending of the money. For these reasons, I would advise a most careful attention to such questions relating to schools and schoolhouses as may come from time to time to your consideration. The public schools will always demand the largest single part of the annual appropriations, and the present tendency is to increase their proportion of the whole expenditure.

I would not for one moment suggest that the schools be curtailed in the grand work which they accomplish. Nevertheless, I think we should carefully scrutinize the expenditures

that come within our control. We must remember that Somerville cannot compete with Boston or Brookline, or one or two other of our wealthy neighbors, in providing educational advantages. We must do the best we can, but we cannot build the handsome schoolhouses or hope to pay the generous salaries offered by these cities I have mentioned. As it is now, we stand close to the leaders in all these respects, and the great majority of cities and towns are far behind us. It must ever be a source of regret to lose teachers who are offered higher salaries to go elsewhere, but more or less of that is to be expected. It is largely a sign of progress and growth on the part of the teacher. While one or two cities are inducing our best teachers to leave us by more liberal offers, we are pursuing the same policy in respect to the others. Our city becomes a step in the professional advancement of the teachers.

During the past year the Martin W. Carr schoolhouse on Beech street has been completed and occupied. It adds fifteen classrooms to our accommodations, but does not wholly relieve the needs of the district. For the complete relief of the Spring hill and West Somerville district, the Burns schoolhouse on Cherry street should be enlarged by the addition of four rooms. Any greater enlargement would create a new grammar school centre and entail a needless annual expense of \$1,500 upon the city. This addition would dispense with the use of the Cedar street building, an antiquated structure, which ought long ago to have been abandoned.

A beginning has been made on the construction of a six-room building on Washington street, near Dane street, which will relieve the needs of the Prospect hill district, and, to a slight extent, those in the Spring hill district. The complete renovation of the interior of the Forster schoolhouse has again made this building one of the best in the city. To meet the need of immediate relief in the Winter hill district, the Superintendent of Schools recommends the erection of a six-room building on the Forster schoolhouse lot. The location, he argues, is central, the land adequate, and the cost of administration in such a school would be the least possible.

An additional boiler and a complete heating and ventilating apparatus have been furnished at the Prescott schoolhouse.

The drawing room at the English high schoolhouse has been increased nearly fifty per cent. in size by the inclusion of a corridor. This practically ends the chance of extending the much needed accommodations within the present walls. It is to be regretted that so new a building should need alteration, and that, once erected, it could not have been sufficient for many years to come. Nevertheless, larger accommodations are needed, and will be demanded more and more till the addition, which may be by one or two northerly wings, is made. If any relief can be afforded through administrative changes or combinations with the other high school in certain branches of instruction, or by use of the building more hours in the week, we trust that every effort will be made before it is necessary to go to the expense of altering the present sightly building by an unsightly addition.

Before leaving the present subject, I would like to speak of the high character of the men who compose our School Board. They are men of exceptional ability, who give their best thought to the work in hand. The Superintendent and the teachers are also deserving of praise for their faithful efforts in behalf of the young people.

PARKS AND BOULEVARDS.

The parks of Somerville, though small, are among the most beautiful anywhere in the suburbs. Historical associations in a marked degree are also connected with them, making them all the more objects of pride to our inhabitants. The year 1898 will be memorable by the addition of another historic and sightly spot to our park system, by the purchase of a part of the vacant land on Prospect hill.

Under the authority of an act of the Legislature, approved May 27, 1898, about one and one-third acres of land on the southwesterly side of Munroe street, known as the Thompson lot, was purchased for \$20,000 and the taxes for 1898. I believe that the people of Somerville congratulate themselves upon this purchase, and that the city has been freed from the criticism of allowing so sacred a spot to remain unpreserved. The purchase of the remaining land authorized by the Legislature and the

proper development of the park are matters for future consideration.

Plans were adopted early last year for the laying out of Lincoln park in Ward 2, and the roadway, 1,220 feet long, has been subgraded and considerable progress made on the athletic field. According to the original agreement, the roadway must be macadamized by July 1 of the present year. When this park, which includes the old Wyatt pit property, has been finally completed and the pit filled, one of the most useful combinations of park and playground will be offered to the crowded population of this side of the city. During the recent cold weather the athletic field, as well as the Broadway park pond, has been flooded for skating, a practice which I most heartily approve.

In the matter of boulevard construction, we are also in the midst of a period of transition. Within a few weeks the grand Middlesex Fellsway, from the Fells to the Mystic avenue end of the Broadway park, has been completed and opened to travel, and this, through an agreement made a few days ago between the Metropolitan Park Commission and the City of Somerville, will soon be extended by way of Winthrop and Chauncey avenues to Broadway. The completion of this boulevard will give Somerville a share in the enjoyment of the great Metropolitan Park and Boulevard system, for which we have long been paying without adequate return.

The value of this and similar improvements cannot be estimated. Coming generations may, for the most part, take them as a matter of course, but the wiser ones will bless the wisdom and foresight of the present.

It is a pleasure to state that the prospects are good for the preservation by the State of the banks of the Mystic river, from Mystic lake to Wellington bridge, and for the construction of a boulevard along its shores. The Metropolitan Park Commission has secured options on the land, and has reserved sufficient money for the takings, although the appropriation is not by any means sufficient to construct the boulevard. Likewise in the proposed scheme for a boulevard connecting the Fellsway with the Revere Beach Reservation, the commission has reserved

enough money to cover the takings. In neither case have the lands been taken, but it is to be hoped that they will be at no distant day.

The project of a boulevard from Powder House square to the Medford line, and thence in Medford, to connect with the Mystic Valley Parkway at Mystic lake, has been considered the past year by the Committee on Public Grounds. The route would be through the lands of the Trustees of Tufts College, and several other owners, crossing Curtis and North streets and skirting the shore of Alewife brook to the Mystic pumping station, and thence across the river into Medford. The committee has recently reported that all but one or two of the owners are willing to release the land, and are anxious that the project should be carried through as soon as possible, and the committee recommends that petition be made to the Legislature for an act giving the city the necessary authority to take the land and lay out a boulevard, as suggested.

Upon the proper development of that section depends, to a large extent, the future welfare of our city. A great tract of land stands ready to be opened up for building purposes. A good boulevard, with suitably laid out intersecting streets, would determine the future of that section, and increase the valuation, adding a class of houses which would tend to lower the burdens of taxation and municipal expenditure. Such a boulevard would prevent a repetition of the mistakes made in the haphazard development and consequent deterioration of some older sections of the city. It would also give us a direct and scenic connection with the beautiful parkway extending along the Mystic lakes. I would recommend that a petition for the statutory authority be prepared and sent to the incoming Legislature at an early date.

BEAUTIFYING THE CITY.

I have already mentioned a number of important improvements which ought to be undertaken. Believing, however, that in the smaller things we can benefit the people quite as much as in the larger ones, I would like to make a few additional suggestions.

Scattered about in different sections are several lots of land owned by the city, but left in an unsightly condition. Such plots of ground as the lot on Glen street, the old Webster schoolhouse lot on Webster avenue, the city farm, and the Harvard schoolhouse lot on Beacon street could, at small expense, be improved and made attractive, instead of repulsive, in their appearance.

Greater attention should be paid to setting out trees on our streets. Nothing so adds to the beauty of a city at a minimum expense as the planting of shade trees. The work should be done now rather than that the present and future generations should suffer from our neglect. Once set out, the trees should be protected against the destructiveness of horses left standing near them by careless drivers.

Greater care should be used in keeping the streets clean. I believe in the policy of stationing men in different sections of the city with their push carts, and leaving to them the duty of keeping their precincts in suitable condition. Rag pickers should not be allowed to interfere with ash barrels on the sidewalks, and other restrictions should be made to prevent the littering of our highways. The citizens should be urged to take great precautions to this end, and, in keeping things neat and tidy, the city should set the example to the people. A few hundred dollars will go a great way in the directions I have enumerated, and the effect will be an appreciation of property values and a happier civic life.

SOMERVILLE AND CAMBRIDGE BOUNDARY LINE.

Early last year a petition was presented to the Legislature, by the City of Cambridge, for a readjustment of the line between that city and Somerville. The matter, however, was allowed to rest, pending conferences by committees of the two City Councils and the City Engineer. After long and careful consideration, everything was practically decided upon between the two cities, on the lines of a plan submitted by the Cambridge committee, but the order was vetoed by the Mayor of Cambridge, and the subject was allowed to drop. All the arguments which have previously been made as to the inconvenience of the present boundary line remain in force, and it is to

be hoped that a final arrangement may be agreed upon by the two cities in the near future.

BROWN-TAIL MOTH.

The insect pest known as the brown-tail moth, which suddenly put in its appearance in 1897, and did great damage to fruit trees in some sections of the city and in Cambridge, threatening to become as grievous a nuisance as the gypsy moth, is now being exterminated.

Under the first law owners were required to remove the pest from their premises. The people responded as well as could have been expected, and the highway and public grounds departments also did effective work. During the past year the insect had spread its operations from the fruit trees to all kinds of shade trees and shrubs. The method of destruction proving inadequate, an act was passed by the Legislature of 1898, making it the duty of the State Board of Agriculture to take immediate steps to prevent the spread of the pest, and conferring upon that board the same power given it by law for the extermination of the gypsy moth, with authority to expend \$10,000 on the work. Within a few weeks operations have commenced, and are now making commendable progress.

SOMERVILLE HOSPITAL.

The Somerville Hospital is a most worthy institution, and should receive the encouragement of every citizen. It is, in a measure, a charitable organization, and must depend largely upon public beneficence for support. The management is composed of twenty-eight of our leading and public-spirited citizens, who are thoroughly devoted to its interests.

There is also a Ladies' Aid Association, which renders valuable assistance financially, and in many other ways helps the hospital by devoting a great amount of time and energy to the work.

With the present careful management, and with the revenue from city patients, the hospital comes nearer to paying its way than at any time since its inception.

The number of cases treated for which the city has paid expenses during the year is seventy-nine, and the amount paid

for the service, \$3,134.76. I would recommend a continuation of the present liberal policy toward this deserving object.

ARMORY.

For the erection of an armory the sum of \$15,000 was appropriated by the last city council. Transfers were made from this appropriation, leaving an unexpended balance of about \$10,000. On account of existing circumstances and the possibility that the State will take action in the matter of armories, no recommendation is needed at this time.

DEATH IN OUR MIDST.

While the health of the city has been excellent on the whole during the past year, the death angel has been a frequent visitor among our leading citizens. One of these was our lamented friend, Ex-Mayor Mark F. Burns, who died last January, after a long illness. It was my very good fortune to be a member of the common council during the last two years of his administration; and as president of the council during the last year, I came into close and frequent relations with him. Ex-Mayor Burns was a man who honored the city of Somerville and the cause of good municipal government in every office that he held. Men who possess his ability and integrity, and are willing to sacrifice business interests and comforts for the public service, are too rarely found. His conception of public duty and his career as a citizen and official are worthy of our emulation.

The city of Somerville sustained another severe loss in the death of its librarian, John S. Hayes. His work in the cause of education, first as a public school teacher for many years, and latterly as the one who brought our public library to its present high standing, has had an important effect on the life of a large number of our citizens. Mr. Hayes was a conscientious and faithful public servant, who united ability and zeal in his work, and whose career has left a permanent impress for good on the life of our municipality.

Others whom I should mention are Ezra D. Souther, a valued member of the Board of Overseers of the Poor and

former councilman and alderman ; Franklin Henderson, one of our oldest residents, and formerly superintendent of streets ; Edward Foote, a prominent citizen, who was at one time a member of the Mystic Water Board ; and J. Leland Norcross and Gershom T. Burnham, who served four years each in the city council.

PUBLIC LIBRARY.

Considering its cost, and the good it accomplishes, the Public Library is one of our most beneficial institutions. It is a matter of congratulation that the vacancy caused by the loss of a man so valuable to the city as the late John S. Hayes has been filled by the selection of Sam Walter Foss to guide its destinies. Mr. Foss has brought to his new position a breadth of learning, literary reputation, and a talent for painstaking, genial work. Already he has brought honor to the city, and is helping to popularize and extend the usefulness of the institution to a marked degree. We have a working library which is a credit to the city, but it will need increased appropriations if it is to continue the same measure of usefulness. One special feature of the recent work will deserve mention. That is the recent opening of the juvenile room, by which hundreds of boys and girls from all parts of the city are provided with intellectual amusement. In this, as well as in the other lines of work, the Librarian and Trustees should be encouraged. They urge the necessity during the coming year of additional appropriations for such needs as a card catalogue, books for the children's room, more books to aid in the excellent practice of distributing books among the schools, increase of clerical assistance in the matter of a proposed opening of the library three additional evenings per week, music department, and the general purchase of new books to keep pace with the best literature of the day.

The plan to open the library more evenings during the week I would most heartily approve. For this and for some of the other reasons mentioned, I would recommend such increase in the appropriation as the resources will permit. The appropriation last year was \$7,500, in addition to the dog tax, and the library authorities consider that this year \$9,000 will be necessary.

CITY CHARTER.

The City Charter question will come before you at an early day, having been referred to the City Council of 1899 at the closing meeting of last year's city council. I very strongly favor a revision of the city charter along modern lines. The old patched and amended charter now in force is inadequate to present conditions. One of the great needs of Somerville, I believe, is the giving of more responsibility and authority to the heads of departments, which will result in the end in more efficient service. The question will also come up in the Legislature, the report of the citizens' charter commission made last winter having been referred to the next General Court. With the city council and the citizens' committee preparing drafts, it seems as if a suitable and modern charter could be prepared, which would be approved by the Legislature and accepted by the people. If consideration is given to the subject by your honorable bodies, it should be within the next few weeks, so that the draft may be presented in due season to the Legislature.

Gentlemen of the City Council:—

The different departments which I have described, and the problems suggested, all pertain to a business corporation. They must all be handled with the same care that we would bestow upon a private business concern, with the added responsibility that we are trustees or directors not merely for ourselves, but for the thousands who have selected us to do their work.

I have perfect confidence that you will be willing to perform your part in this business management. I feel sure that we shall work in harmony for one object only, to merit the approval of our citizens. Most of you have had experience in these duties and are aware of the long hours of confinement and study. You will be called upon to decide difficult and perplexing questions, it may be, effecting the interests of your best friends. In all such cases let us not hesitate to take our stand for the best interests of the whole city according to our best knowledge and belief on every occasion. I ask you for your hearty co-operation in working for the honor and welfare

of our city, and I pledge you every assistance within my power. You will be obliged at times to decide adversely to the wishes of some of your constituents for desirable improvements which you feel cannot be afforded this year.

Our tax rate is too high. Nothing catches the public ear as quickly as the tax rate. People looking for a home make that one of their first inquiries. The same is true of the manufacturer, the investor, the merchant. Other cities use this point against us, and urge the investing with them to save taxes.

I would not advise so much economy in any department this year that it would require extra expenditure next year. That would be no saving. We do not want to impair the efficiency of any department by too much economy, neither do we want any expenses approaching extravagance. Our policy should be so conducted that the present high tax rate of \$17.90 should be materially reduced. I believe we can do it. Believing that economy has been the one prominent issue in our election, I feel that we shall carry out the wishes of the people only by constantly keeping this principle in mind.

MAYOR'S VALEDICTORY ADDRESS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 31, 1898.

ORDERED: That the valedictory address delivered by His Honor the Mayor, before the City Council, December 28, 1898, be, and it hereby is referred to the next City Council, with a request that it may be printed with the annual reports for the current year.

IN BOARD OF ALDERMEN, December 31, 1898.

Adopted and sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, December 31, 1898.

Adopted in concurrence.

CHAS. S. ROBERTSON, *Clerk.*

VALEDICTORY ADDRESS

DELIVERED BY

HON. ALBION A. PERRY,

DECEMBER 28, 1898.

GENTLEMEN OF THE CITY COUNCIL:—

At the close of official service extending over three successive years, it seems proper to review briefly some of the more important work performed by the City Councils with which I have been so pleasantly associated. This I desire to do, not because the record of the last three years has any strikingly exceptional features, but merely to show that steady and commendable progress has been made along the lines established by those who were first charged with the duty of shaping the municipal policy of Somerville. It is enough to be able to say in general that no backward step has been taken, that the development of the city has not been checked by narrowness or parsimony, and, on the other hand, that the financial condition of the city has not been impaired by recklessness and extravagance. If, in passing, I throw out a few suggestions as to the future, do not attribute it to a desire to forestall the policy of my successor. He knows I am wholly free from such an ambition, and that, as a citizen, I have the fullest confidence in his ability to deal with all public questions as they shall arise.

<i>Amount brought forward</i>	. . .	\$431,000.00
1894	. . . . .	65,000.00
1895	. . . . .	162,000.00
		<hr/>
Total gross increase	. . . . .	\$658,000.00
1891 decrease	. . . . .	12,000.00
		<hr/>
Total net increase for seven years	. . . . .	\$646,000.00

Average of annual increase for 7 years, \$92,285.71. Let it not be understood that these figures are given for the purpose of instituting a comparison unfavorable to earlier city councils. Nothing could be farther from my thought. Each period has its own needs, and I believe the expenditures which added so largely to the city debt from 1889 to 1895 met with the general approval of tax-payers. I present the tables chiefly to show that the increase of late in the tax rate is not due to debt requirements created while I have held the office of mayor. The exhibit would have been still more pleasing if my veto of certain items in this year's appropriation bill had been sustained. This I say in no complaining spirit, for I know you all voted for what you considered the best interests of the city, and it is quite possible that you, and not I, were in the right.

It is peculiarly gratifying to me that there has been no borrowing of money outside the statutory debt limit during my terms of service. Two attempts were made in 1896 to petition the Legislature for such a purpose, but both were thwarted by veto messages. The objects for which it was desired to create this questionable form of indebtedness were meritorious, but I believed they could be safely postponed until the financial condition of the city was strengthened. The result was in accordance with my belief, and Lincoln park has been acquired, and subways at Sacramento and Kent streets are now in use, without seeking special favors from the General Court.

EXPENDITURES ON FUNDED DEBT ACCOUNT.

One of the largest appropriations which the city council is compelled to make from year to year is entitled "Reduction of Funded Debt." In 1897 it amounted to \$110,000, in 1898 the

requirement was \$155,200. This large increase, which was in nowise within the control of the city council, added about ninety cents to the tax rate of the present year. You will be glad to know that next year's appropriation need not exceed \$127,000, a reduction of \$28,200. This means a decrease in the tax rate of about fifty-five cents. As fast as city bonds mature, they must be paid, and the amount of such maturities from year to year is determined by the action of preceding city councils. I refer to these facts at the present time to emphasize the importance of keeping down the public debt, and thus lessening the burden which those who come after us will be compelled to bear.

In addition to the city bonds maturing next year, to which I have already referred, water loan bonds, to the amount of \$32,500, will also come due. These bonds, in the sum of \$15,500, can be renewed if the city council deems it expedient so to do. As the requirements of the water debt are met from the water income, no appropriation from the tax levy will be necessary for the payment of the last-named bonds. This year, unnecessarily as it now proves, the water loan bonds were included in the appropriation for reduction of funded debt, and thus more than forty cents was added to the tax rate.

In order that you may see at a glance what use has been made of the money appropriated on funded debt account during the last three years, I have prepared the following table. The first column of figures shows the actual disbursements down to the present time, while the second column indicates the balances now remaining on hand.

EXPENDITURES ON FUNDED DEBT ACCOUNT IN
1896, 1897 AND 1898.

	Expenditures.	Unexpended Balances.
Almshouse		\$20,000.00
Armory		10,122.76
City Hall Annex	\$11,587.43	
City Hall Improvement	32,085.27	
	\$43,672.70	\$30,122.76
<i>Amounts carried forward</i>	\$43,672.70	\$30,122.76

<i>Amounts brought forward</i>	\$43,672.70	\$30,122.76
Electrical Department	4,063.66	11.34
Fire Department, Fire Station No. 1	4,310.46	
“ “ Fire Station No. 4	7,054.42	
“ “ Fire Station, Clarendon Hill	6,814.20	13,650.00
“ “ Land on Medford street	948.00	
Highways, City Stable	1,191.00	
“ Paving Somerville avenue	9,533.72	
“ Paving Webster avenue	7,003.35	253.25
“ Steam Road Roller	6,690.00	310.00
“ Subway in Kent street	3,264.18	
“ Subway in Sacramento street	2,487.66	
Public Grounds, Lincoln park	37,972.87	51.13
“ “ Prospect Hill park	20,356.21	
Schoolhouse, Burns Addition		12,000.00
“ English High	8,343.73	
“ Jacob T. Glines	26,500.00	
“ Luther V. Bell Improvement	6,500.00	
“ Martin W. Carr	62,121.03	
“ Prescott Improvement	3,350.96	2,649.04
“ Sanford Hanscom	40,595.19	
“ William H. Hodgkins	9,000.00	
“ Ward Two	9,750.03	28,224.97
Sewers Construction	50,000.00	
Sidewalks	5,000.00	
	<hr/>	<hr/>
	\$376,523.37	\$87,272.49

The foregoing figures do not represent all the expenditures for permanent improvements, as I have excluded the balances brought forward from the year 1895, together with the sum of \$75,000, received from water rates and used for the construction of storm-water drains.

NEW SOURCE OF REVENUE.

The city has received this year the first instalment of the so-called “compensation tax,” which the Boston Elevated Railway Company is obliged under its charter to pay. Somerville’s

share of the tax was found to be \$6,031.55. This is a new source of revenue, and will continue from year to year, increasing slightly with the growth of the corporation's earnings.

Next year, in addition to the compensation tax, the city will receive its share of the tax on the capital stock of the Elevated Company and leased lines, as apportioned under the street railway law of 1898. Somerville is a gainer by the provisions of this law to the extent, probably, of not less than \$20,000 a year. If two annual installments should be paid in 1899, as seems likely, the revenue of the city would be increased from forty to fifty thousand dollars. It is expressly provided that this money shall be expended on the highways, and it will be a great help in the care of our streets. I have been sharply criticised in some quarters for appearing before legislative committees in advocacy of laws more favorable to the poorer cities of the Commonwealth, and very bitter things were said against me because of my attacks upon the law giving to a few favored localities the bulk of the corporation tax. The new law governing the distribution of the tax on street railway stock is a recognition of the merits of the cause in which I have long labored.

SEWERS AND STORM-WATER DRAINS.

It seems proper to make special reference to what has been done to perfect the drainage system of Somerville. The amount of work performed in the sewer department during the last three years has exceeded that of any like period in the recent history of the city. The Tannery brook valley system of storm-water drainage was constructed in 1896, although it was projected, and the money to defray the cost was borrowed, during Mayor Hodgkins' administration. In my second inaugural address I commented at length upon the importance and magnitude of the undertaking, and it is not necessary to dwell upon it at this time. It was also in the year 1896 that nearly all the complicated and expensive structures were built which connect our local sewers with the Metropolitan sewerage system.

In 1897 a beginning was made upon the system of storm-water drains devised for the relief of the low lands in Wards

One and Three. A drain four feet and two inches in diameter was built in Mystic avenue, between Winthrop avenue and Wheatland street, and another immense structure, more than seven feet in diameter, was laid in Winthrop avenue throughout its entire length. Through this last-named drain all the storm water of the so-called Eastern drainage district of the city will be conducted to the Mystic river.

During the present year, the work begun in 1897 has been greatly extended. Two branches have been built from the southerly terminus of the Winthrop avenue drain, — one extending to the corner of School and Medford streets (and running through Broadway, Sargent avenue, Sherman court, Marshall street, Gilman square, and Medford street), the other branch running through Broadway and Cross street to the junction of the last-named street with Pearl street.

Much other important work has been done in the sewer department this year, including a storm relief drain from Union square through Bow and Summer streets, and a new sewer main, for house drainage only, in Somerville avenue, between Poplar street and Prospect street. Existing trunk sewers, in a part of the district lying south and east of Union square, will be used as storm-water drains when the new system for house sewage is completed.

Nearly a quarter of a million dollars has been expended in the construction of sewers and drains during the last three years, about \$40,000 of which has been assessed on estates benefited in a special manner. Great credit is due to the City Engineer and his assistants, as well as to the men who have served on the sewer committee, for the energy and skill which they have displayed in carrying on these important public enterprises.

In view of the much talked of increase in the tax rate, I will say further under this head that about \$75,000, in round numbers, has been expended the present year in the construction of storm-water drains. The outlay was necessary and commendable, and will not be condemned by the intelligent and public-spirited taxpayer. The districts relieved by these new drains had suffered year after year from flooded cellars, and the

inmates of the houses were compelled to live under conditions which not only produced great discomfort, but also created a serious menace to health.

The money expended the present year in building storm-water drains was obtained from water rates. If I had desired to make a good financial showing, rather than to promote the welfare of the people, I should not have recommended such a use of the surplus water revenue. By applying it to the payment of maturing debt, or appropriating it for current expenses, a reduction of about \$1.50 could have been made in the tax rate.

Some of our citizens have felt that it was not just to use water income except for the maintenance of the water department, and they have suggested that the water rates should be reduced so as to represent the exact cost of the water. But it is to be remembered that the entire cost of a water supply can not be computed until the expense of conducting away all the waste water is ascertained. It is the free use of running water in our houses and industrial establishments that makes a sewer system necessary in the first instance, hence there is no injustice in using a part of the water revenue for the construction of drains. The volume of waste water in the sewers had become so great, that we were forced to build a separate system of drains in many parts of the city to carry off the storm water. A part of the expense thus incurred has been met from water rates, and with propriety, as I believe.

It should also be borne in mind, in considering this question of the application of water revenue, that for many years the water department was not self-supporting, and the deficiency was provided for in the general tax levy. Owners of vacant lands have been taxed year after year in order to keep down water rates for the benefit of householders. Now, when the income from water has been greatly increased by the adoption of the Metropolitan system, it is only fair that water takers should repay a part of the debt which they owe to the general public. This equitable debt, as nearly as can be estimated, amounts to \$403,347.65.

METROPOLITAN WATER SUPPLY.

The introduction into our city of the new Metropolitan water supply was one of the most notable events of the present municipal year. The quality of the water is declared by experts to be good, and the quantity is abundant. No intelligent citizen of Somerville regrets that henceforth he will be able to look upon the beautiful surface of Mystic lake, without being compelled to drink the noxious substances which its waters hold in solution.

The pecuniary advantages of the new water system are also important. No increase was made in the water rates the present year, and yet the income was sufficient for the needs of the department, and, as I have elsewhere shown, a surplus of not less than \$75,000 remained for other public uses. The return for 1899 is likely to be still more favorable, as the expenses of the water department have been unusually large during the last twelve months, owing to the erection of new buildings and the relaying of defective pipe.

The profits obtained this year from the sale of water are an indication of the advantages which might be derived from public ownership of street railways, gas and electric lighting plants, telephone franchises, and other enterprises of like character. All that is lacking is courage on the part of the people to take possession of these monopolistic industries, and operate them for the benefit of the entire public instead of a few rich stockholders.

ARMORY.

The sum of \$15,000 was appropriated on funded debt account the present year for the erection of an armory to be occupied by our local militia company. I vetoed this item in the appropriation bill because, on the statement of the captain of the company, it seemed to be excessive. The veto was not sustained, however, and the money was borrowed. No step has yet been taken toward the erection of an armory. A part of the money has been transferred to other accounts, and the balance will be available for such uses as the incoming city council may be pleased to make of it.

In my last inaugural address you will find these words:—"A radical change should be made in the laws relating to the establishment and maintenance of armories and drill-rooms. Not a single sound argument can be adduced in support of the present practice of requiring cities and towns to erect and maintain costly buildings for the use of the State militia. The militia is established for the protection of the entire Commonwealth and not for the comparatively few cities and towns which have military organizations within their borders. Hence, it would seem that the cost of equipping and housing the various companies should be borne by the State."

Still later, in the month of February, I called the attention of the city council to a resolve which had been introduced into the Legislature for the appointment of a commission to inquire into the advisability of changing the militia laws so that the Commonwealth should provide all armories. I suggested that it might be well to defer action in relation to a new armory until the report of the commission was received. On the twenty-third day of February, Capt. Herbert W. Whitten and others appeared before the city council to urge immediate action upon the petition of Company M for a new armory. At this hearing Captain Whitten stated, among other things, that he had made an investigation at the State House of the question of State ownership of armories, and "the only thing there was a resolve for a committee to investigate and consider the question of State *control* of armories and rifle ranges, with a view of securing unanimity of management. There was nothing in it," he said, "to provide for the State building armories."

I did not think it proper to enter into a discussion with Captain Whitten, whom we all so highly honor, as to the scope of the legislative resolve, but from the language of the resolve itself, as well as from statements made to me by gentlemen high in military affairs, I felt that Captain Whitten might have been misled in his interpretation of the functions of the commission. Within a few days the Commissioners' Report has been filed, and from it I quote the following:—

“Armories and ranges should be owned or leased and controlled solely by the State. They should not be used except by the organizations of the volunteer militia, and should be restricted in their use to purely military purposes. Cities and towns should not, as now, be required to provide armories and ranges. The State decides where they are to be located; the State should bear the entire expense.” The commissioners recommend that the laws be changed to conform to their suggestions.

I have referred to this matter at some length in confirmation of statements heretofore made by me to the city council, and for the further purpose of urging that no money should be expended in the erection of an armory until the Legislature takes action on the recommendations of the commission.

FIRE DEPARTMENT.

In my inaugural addresses I have briefly commented upon the rapid growth of the fire department in recent years,—a growth which has been out of proportion to other equally important departments. While recognizing the necessity for a well equipped and efficient service for the extinguishment of fires, I believe it is easy to magnify the actual requirements of the fire department in a city situated as is our own. In the case of a great conflagration, we are not compelled to rely wholly upon our own resources in battling with the flames. The departments of neighboring cities cheerfully respond to calls for aid, in return for a like service on our part. This reciprocal service among adjacent municipalities is of great advantage to all, and materially decreases the cost of maintaining fire departments.

The liberal provision made for the fire department in this city has added to the volume of the funded debt, and calls for an annual appropriation of somewhat formidable proportions. With the completion of the building now in process of erection on Clarendon Hill, nearly every part of the city will be provided with ample protection. I can not think of any outlay for fire stations, involving the making of debt, which will be required for several years, with the exception of extensive

improvements upon the building at the corner of Washington and Prospect streets.

With the introduction of the Metropolitan high-service water supply, the means of extinguishing fires in the more elevated districts of the city ought to be materially improved. By enlarging and extending the high service throughout the Metropolitan district, it would be possible to do away in part with the use of steam fire engines in the several cities and towns, thus reducing by thousands of dollars the annual appropriation for fire department purposes. This is a subject of great importance not only to Somerville, but to every city and town using the Metropolitan water supply. I am glad to know that Chief Engineer Hopkins has taken the initiative in the public discussion of the question.

POLICE DEPARTMENT.

We have all been disappointed in not being able to increase the police department during the present year. The force is actually smaller to-day than it was three years ago, notwithstanding the growth of the city has called for the employment of additional patrolmen. It is to be hoped that our successors will at least find a way to make up the full number of the reserve force, from which appointments to the regular force may be made. The Chief of Police has modestly refrained from pressing his just claim for more patrolmen, and has practised the most rigid economy in the management of his department.

OVERDRAFTS IN 1897.

The present city council received from its predecessor a legacy of unpaid bills amounting to \$26,772.50. This sum was, of necessity, provided for in the tax levy of 1898, and added a little more than fifty cents to the tax rate of the present year. It is gratifying to know that not a dollar's deficiency will exist when the books of the treasurer are balanced next Saturday,—that the incoming city council will start with an absolutely clean score.

IMPORTANT PUBLIC IMPROVEMENTS.

If time permitted, it would be interesting to refer in detail to some of the most important improvements carried on during

the last three years. I can only make briefest mention of a few.

The city hall building has been enlarged and newly furnished, giving ample accommodations to the several departments. This measure had been under discussion for many years, and it was feared that a heavy debt would be incurred in the erection of a new building. The tax-payers are elated over the satisfactory and inexpensive solution of a problem that had taxed the ingenuity of city governments for a quarter of a century.

The abandoned engine house, at the corner of Highland avenue and Walnut street, has been remodelled and fitted up for the use of the Superintendent of Schools, the Board of Overseers of the Poor, and our local Grand Army Post. It furnishes excellent accommodations to its occupants, and no longer stands in a dilapidated condition to mar the beauty of Central Hill park.

Sanborn Field has been purchased and laid out as a public park and playground, and land has been acquired for park purposes on historic Prospect hill. Subways have been built at Kent and Sacramento streets, enabling our people, and especially school children, to cross the Fitchburg railroad without risk to life and limb. Funds have been provided for the purchase of a site for an almshouse.

The Sanford Hanscom and Martin W. Carr schoolhouses have been built, both of them ornaments to the city and a boon to our rapidly increasing school population. A third school building is now in process of erection in Ward Two. Extensive alterations and improvements have been made in other schoolhouses.

A new fire station on Clarendon Hill is approaching completion, and large expenditures have been made on some of the old buildings of the fire department. More than \$16,000 has been expended for granite paving in Somerville and Webster avenues. Other projects, of great magnitude, I have referred to under separate heads.

INCREASE OF TAX RATE.

The increase in the tax rate during my administration has been a great disappointment to me as well as to our citizens

generally ; but it was due in part to temporary causes, and a reduction next year may be confidently expected. I base my prediction of a lower tax rate upon the following facts :—

1. That no unpaid bills will be carried forward this year to burden the incoming administration.

2. That the new method of apportioning the tax on stock of street railway corporations will give the city a large additional revenue.

3. That it will not be necessary, as it has been this year, to use all the surplus water revenue for storm-water drains.

4. That a much smaller appropriation will be required for reduction of the funded debt.

5. That there are but few public improvements of an urgent character to call for appropriations on funded debt account.

I have already pointed out several causes contributing to the high tax rate of the present year. One of the most important, however, has not yet been mentioned, and is found in the comparatively small increase in the taxable valuation of the city. The widespread depression in business, continuing already for several years, has retarded building operations and checked the rise in the value of real estate. The increase in taxable property during the last three years has been as follows :—1896, \$2,564,500 ; 1897, \$1,160,200 ; 1898, \$508,700. The foregoing increases in valuation represent the following decreases in tax rate, or would do so if there were no other factors in the problem :—1896, eighty-five cents on \$1,000 ; 1897, forty-one cents on \$1,000 ; 1898, eighteen cents on \$1,000.

DEATH OF PROMINENT CITIZENS.

During the present year Somerville has lost several of her most distinguished citizens, some of them men who had served the city with great ability and fidelity in positions of public trust. Among the number who have passed away, you will recall the names of Ex-Mayor Mark F. Burns, Public Librarian John S. Hayes, and Ex-Aldermen Ezra D. Souther and J. Leland Norcross. Each one of them I was proud to call my friend, and with all of them I had been closely associated in

official service. They were men of sterling qualities, giving the best of their thought and labor to advance the interests of the city in which they dwelt. On other occasions I have paid them my humble tribute of just and loving praise, and it is not meet that encomiums should be repeated at this hour. I only hope that when the last page of our several records is written, we may, like them, merit the gratitude and respect of those from whose hands we have received public honors.

I venture at this time to express the hope that before another mayor retires from office we shall see a suitable monument standing on Central hill to commemorate the valor of the soldiers of the Union army.

Gentlemen of the City Council :—

While, in my present state of health, it is a satisfaction to be relieved from public duties, let me say in all frankness that I do not quit the office of mayor without a twinge of sadness. In a city like Somerville, it is not only a position of great honor, but it has also many delightful features which fully compensate for the responsibilities its incumbent must assume and the burdens he must bear.

When I entered the office, I promised to give the full measure of my ability and strength to the service of my fellow-citizens. I have tried to keep my pledge. The meagreness of the ability has brought more shame to me than to them, for they have looked upon my efforts with a charity that has never failed. The strength has been far less than I had hoped, but it has all been used for what I conceived to be the welfare of my city and my fellowmen. If the work were again to fall to my hands, I might escape many errors of the past, but I could not act with any greater honesty of purpose.

It is only simple justice to say that the pleasures of my official service have been greatly enhanced by the unvarying courtesy and consideration accorded to me by the several city councils with which I have been associated. During the three years I have gone in and out among the members of the city government, I do not recall a single act or word, directed to me personally, that has caused a moment's pain or left the slightest

sting. On the contrary, I have been led to feel that I was acting not only with official associates, but also with warm personal friends.

You have not agreed with me at all times on public measures. It would not have been reasonable to expect such unbroken accord. But whenever you have expressed dissent from my opinions, you have done so in a way that could not cause offence to the most sensitive mind. Some of you may have felt that my use of the veto power was too frequent, and not always wisely exercised; but no one of your number has ever questioned the sincerity of my motives in applying to legislation the one check which the statutes of the Commonwealth have placed in the mayor's hands. The same confidence you have had in the honesty of my purposes has characterized my feelings toward you. We have simply differed in judgment on a few matters of public policy, as is the wont with men everywhere and at all times. In this connection, it may be of interest to you to learn that since the veto power was given to mayors in this Commonwealth, twenty years ago, just forty-eight veto messages have been presented to the city councils of Somerville. Of this number, seventeen were written by my predecessors in office, and thirty-one by myself. As evidence of the good feeling which has existed between the legislative and executive branches of the city government during the last three years, I will add that all but three of my vetoes have been sustained, and the objections raised in two that were overruled were fully met by subsequent legislation.

Considering some of the political conditions attending the election of city councils and mayor in Somerville of late, it would not have been strange if antagonisms had arisen from time to time between the legislative and executive departments. Happily, however, this has not been the case, and for harmony of action in all branches of the public service the record of the last three years has never been surpassed. I do not call to mind a single appointment which I have made that has failed of unanimous confirmation. The members of the city councils with whom I have been associated have transacted public business in a spirit of mutual confidence and

respect. Their discussions have been characterized by courtesy and good feeling. They have seemed to be imbued with the sentiment which breathes in the lines of our revered Quaker poet :—

“ To differ is not crime,
The varying bells make up the perfect chime.”

Not only have my relations with the several city councils been most cordial, but I have at all times received the kindest treatment from the executive officers of the city. They have responded cheerfully to every request for counsel or service, and their coöperation has been a source of strength and courage in the performance of my duties. If I should refer to them by name, the list would include every official and head of department. Not one of them has ever spoken a word or done an act to cause the slightest friction between his office and my own. Never was a city more highly favored than is Somerville in the character of its officers and employees.

While our leave-takings to-night are not without an element of sadness, there are many things in which we may find incitements to hope and joy. The present condition and future prospects of our city are such as to make glad the hearts of its friends. We have a right to be proud of Somerville. It is a city beautiful in its situation and surroundings. It is blest with a population which embodies the best qualities of manhood and the noblest traits of womanhood. Its public affairs are managed in an honest and intelligent manner. Its citizenship is protected by every legal and moral safeguard. It will be still more attractive as a place of residence in the years to come, when, as I trust, its river valley will be transformed into a beautiful parkway, its public grounds be still further embellished, its highways made clean and smooth, the advantages of its schools and library extended, and all its agencies for the physical, intellectual, and spiritual welfare of mankind enlarged by the superior wisdom of that new century, whose messenger is already knocking at the door. To have shared for a time in the government of such a city is an honor which no one of us lightly esteems.

Our official relations, gentlemen, will soon be at end, but I am sure the friendly ties which have been formed in this building will not be broken while life lasts. In all the coming years, whether they be few or many, I shall look back with unfeigned pleasure to the public service which we have shared together. The uniform kindness and courtesy which you have extended to me will not be forgotten, and in private life I shall cherish the friendship of the men whose confidence and support have been of such great value to me in the performance of arduous public duties. If my desires could bring prosperity and happiness to your future days, each one of you would be assured of a life resplendent with sunshine and joy.

REPORT
OF THE
TREASURER AND COLLECTOR
OF TAXES.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 18, 1899.

Referred to Committee on Finance, and sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 18, 1899.

Referred to Committee on Finance, in concurrence.

CHAS. S. ROBERTSON, *Clerk.*

IN COMMITTEE ON FINANCE, February 10, 1899.

TO THE CITY COUNCIL OF SOMERVILLE:—

The Committee on Finance, to whom was referred the report of the Treasurer and Collector of Taxes, for the year 1898, report that in compliance with Section 10 of Chapter 4 of the Revised Ordinances, they have, in conjunction with the Auditor, examined and audited the books and accounts of the Treasurer and Collector of Taxes for the year ending December 31, 1898, and in the manner prescribed by said section. In connection with this examination, a careful comparison has been made with the books of the City Auditor and with the financial statements received from the several committees, boards and officers of the city accountable for the use of the city funds. The cash account of the Treasurer has been verified by actual count of the cash on hand, and the balances shown to be in the banks of deposit have been confirmed by the officers of the several banks.

We are pleased to report, as a result of the examination, that no errors were discovered in the accounts and books of the Treasurer and Collector, which are models of neatness and care, and we recommend that his report be accepted and printed in the Annual Reports of 1898.

GEORGE O. PROCTOR, FREDERICK M. KILMER, ISAAC M. STORY, CHARLES A. GRIMMONS, ROBERT BURNS, ARTHUR P. VINAL, W. H. CUSHMAN, PAUL J. SMITH,	} } Committee } on } Finance.
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IN BOARD OF ALDERMEN, February 15, 1899.

Accepted and sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 16, 1899.

Accepted, in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

TREASURER'S OFFICE, January 12, 1899.

TO THE HONORABLE, THE MAYOR, AND CITY COUNCIL OF THE
CITY OF SOMERVILLE:—

Gentlemen:— The undersigned presents herewith the twenty-seventh annual report of the financial condition of the city, and a statement showing, in detail, the receipts and disbursements for the year ending December 31, 1898.

The value of the property of the city December 31, 1897, was \$2,638,100.12. The property acquired during the year was as follows:—

Fire Alarm and Police Patrol Boxes	\$ 1,500.00
Fire Station, Clarendon Hill	7,350.00
Highway Department, Steam Road Roller	3,190.00
Public Grounds, Lincoln Park	4,987.87
Public Grounds, Prospect Hill Park	20,356.21
Schoolhouse, Spring Hill District (M. W. Carr)	40,041.60
Schoolhouse, Ward Two	9,872.53
Somerville Water Works	26,970.22

Total amount of property acquired during the year	\$114,268.43
Making the value of the public property December 31, 1888, as per Table A, \$2,752,368.55.	

The Funded Debt December 31, 1897, as per Table B of the last annual report, was \$1,548,000.00.

The debt was increased during the year by appropriations as follows:—

Schoolhouse, Spring Hill District (M. W. Carr)	\$6,000.00
Schoolhouse, English High	1,000.00
<i>Amount carried forward</i>	\$7,000.00

<i>Amount brought forward</i>	\$ 7,000.00
Schoolhouse, Prescott, Heating and Ventilating	6,000.00
Schoolhouse, Ward Two	34,000.00
Schoolhouse, Burns, Addition	12,000.00
Public Grounds, Lincoln Park	5,000.00
Public Grounds, Prospect Hill Park	20,000.00
Highways, Steam Road Roller	3,500.00
Highways, Paving Webster avenue, Fitchburg Railroad to Cambridge line	7,000.00
Sidewalks	5,000.00
Electrical Department, Police Patrol Boxes	1,500.00
Support of Poor, Almshouse	20,000.00
Fire Department, Fire Station, Clarendon Hill	15,000.00
Sewers, Construction	25,000.00
Armory	15,000.00
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Total amount of appropriations on Funded Debt account	\$176,000.00

To provide for the above-mentioned appropriations the following bonds were issued, viz. :—

City Loan Bonds Nos. 2,365 to 2,375, payable 1899, interest 4 per cent.	\$11,000.00
City Loan Bonds Nos. 2,376 to 2,386, payable 1900, interest 4 per cent.	11,000.00
City Loan Bonds Nos. 2,387 to 2,396, payable 1901, interest 4 per cent.	10,000.00
City Loan Bonds Nos. 2,397 to 2,406, payable 1902, interest 4 per cent.	10,000.00
City Loan Bonds Nos. 2,407 to 2,416, payable 1903, interest 4 per cent.	10,000.00
City Loan Bonds Nos. 2,417 to 2,426, payable 1904, interest 4 per cent.	10,000.00
City Loan Bonds Nos. 2,427 to 2,436, payable 1905, interest 4 per cent.	10,000.00
City Loan Bonds Nos. 2,437 to 2,446, payable 1906, interest 4 per cent.	10,000.00
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<i>Amount carried forward</i>	\$82,000.00

REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 79

<i>Amount brought forward</i>	\$82,000.00
City Loan Bonds Nos. 2,447 to 2,456, payable 1907, interest 4 per cent.	10,000.00
City Loan Bonds Nos. 2,457 to 2,465, payable 1908, interest 4 per cent.	9,000.00
City Loan Bonds Nos. 2,466 to 2,470, payable 1909, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,471 to 2,475, payable 1910, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,476 to 2,480, payable 1911, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,481 to 2,485, payable 1912, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,486 to 2,490, payable 1913, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,491 to 2,495, payable 1914, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,496 to 2,500, payable 1915, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,501 to 2,505, payable 1916, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,506 to 2,510, payable 1917, interest 4 per cent.	5,000.00
City Loan Bonds Nos. 2,511 to 2,515, payable 1918, interest 4 per cent.	5,000.00
Sewer Loan Bonds Nos. 199 to 223, payable 1898 to 1902, \$1,000 annually, interest 4 per cent.	25,000.00
	<hr/>
Total amount of bonds issued in 1898	\$176,000.00

The following bonds became due and were paid during the year, viz.: —

City Loan Bonds Nos. 1,274 to 1,283, interest 4 per cent.	\$10,000.00
City Loan Bonds Nos. 1,611 to 1,619, interest 4 per cent.	9,000.00
	<hr/>
<i>Amount carried forward</i>	\$19,000.00

<i>Amount brought forward</i>	\$19,000.00
City Loan Bonds Nos. 1,772 to 1,790, interest 4 per cent.	19,000.00
City Loan Bonds Nos. 2,068 to 2,077, interest 4 per cent.	10,000.00
City Loan Bonds Nos. 2,223 to 2,233, interest 4 per cent.	11,000.00
City Loan Bonds Nos. 970 to 993, interest 4 per cent.	24,000.00
City Loan Bonds Nos. 1,073 to 1,082, interest 4 per cent.	10,000.00
City Loan Bonds Nos. 1,131 to 1,134, interest 4 per cent.	4,000.00
City Loan Bonds Nos. 1,189 to 1,195, interest 4 per cent.	7,000.00
City Loan Bonds Nos. 1,421 to 1,444, interest 4½ per cent.	24,000.00
City Loan Bonds Nos. 1,284 to 1,293, interest 4 per cent.	10,000.00
Sewer Loan Bond No. 57, interest 4 per cent. . .	1,000.00
Sewer Loan Bond No. 174, interest 4 per cent. .	1,000.00
Sewer Loan Bond No. 40, interest 4½ per cent. .	1,000.00
Sewer Loan Bonds Nos. 82 to 85, interest 4 per cent.	4,000.00
City Loan Paving Bonds Nos. 26 to 30, interest 4 per cent.	5,000.00
Water Loan Bonds Nos. 152 to 166, interest 5 per cent.	15,000.00
Water Loan Bond No. 287, interest 4 per cent. .	1,000.00
Water Loan Bond No. b449, interest 4 per cent.	1,000.00
Water Loan Bonds Nos. 327 to 329, interest 4 per cent.	3,000.00
Water Loan Bonds Nos. 407 to 408, interest 4 per cent.	2,000.00
Total amount of bonds paid during the year .	<u>\$172,000.00</u>

REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 81

Leaving the net Funded Debt, December 31, 1898, as per Table B, \$1,552,000.00, classified as follows :—

City Loan Bonds bearing interest at 4 per cent.	\$907,000.00
City Loan Bonds bearing interest at 4½ per cent.	137,000.00
City Loan Sewer Bonds bearing interest at 4 per cent.	153,000.00
City Loan Sewer Bonds bearing interest at 4½ per cent.	13,000.00
City Loan Paving Bonds bearing interest at 4 per cent.	70,000.00
Water Loan Bonds bearing interest at 4 per cent.	234,000.00
Water Loan Bonds bearing interest at 5 per cent.	28,000.00
Water Loan Bonds bearing interest at 5½ per cent.	10,000.00
	<hr/>
Total Funded Debt, City Loan	\$1,122,000.00
Total Funded Debt, Water Loan	272,000.00
Total Funded Debt, Paving Loan (outside legal limit)	70,000.00
Total Funded Debt, Sewer Loan (outside legal limit)	88,000.00
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	\$1,552,000.00

RESOURCES.

The assessors' warrant for the tax levy, assessed upon the polls and estates of the inhabitants, was received.

The total amount of taxable property was \$50,739,700, and the rate of taxation was \$17.90 on each \$1,000 valuation as follows:—

Real Estate, valuation	\$47,015,775.00	
Personal Estate, valuation	3,723,925.00	
		<hr/>
Total valuation	\$50,739,700.00	
At a rate of \$17.90 on \$1,000 valuation		\$908,240.63
Polls, 16,281 at \$2.00		32,562.00
Street Watering, 334,612 linear feet at 4 cents		13,384.48
		<hr/>
Total amount of tax levy		\$954,187.11
Borrowed on Funded Debt account to provide for cost of public improvements		176,000.00
Water Works income		200,735.03
National Bank and Corporation Taxes		27,463.89
Court Fees, Fines, etc.		3,776.50
County of Middlesex, dog licenses		2,268.86
Unexpended balance of 1897		60,450.80
Received from all other sources		50,474.98
		<hr/>
Total amount of resources		\$1,475,357.17

REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 83

The appropriations, credits and balances of the various accounts were as follows:—

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Armory:—			
Appropriation, Fund- ed Debt account	\$15,000.00		
Transferred to other accounts	4,877.24		
	\$10,122.76		
Balance to 1899			\$10,122.76
Electrical Department:—			
Appropriation	6,400.00		
Old material sold		\$42.70	
Expenditures			6,797.74
Deficiency			355.04
Electrical Department, Fire Alarm and Police Patrol Boxes:—			
Appropriation, Funded Debt ac- count	1,500.00		
Expenditures			1,500.00
Engineering Department:—			
Appropriation	9,000.00		
Received for services		61.50	
Expenditures			9,040.21
Excess			21.29
Excess and Deficiency, 1898:—			
Appropriation	8,400.00		
Deficiency of 1897			8,369.38
Excess to 1899			30.62
Fire Department:—			
Appropriation	56,000.00		
Horses sold, etc.		332.40	
Expenditures			57,388.65
Deficiency			1,056.25
Fire Department, Fire Station No. 3, Improvement:—			
Balance from 1897		52.00	
Excess			52.00

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Fire Department, Fire Station, Clarendon Hill:—			
Appropriation, Funded Debt account	\$15,000.00		
Expenditures			\$ 7,350.00
Balance to 1899			7,650.00
Health Department:—			
Appropriation	20,000.00		
Offal and permits		\$1,603.92	
Expenditures			25,020.80
Deficiency			3,416.88
Highways:—			
Appropriation	\$65,000.00		
Transferred to other accounts	167.41		
	<hr/>		
	64,832.59		
Labor, materials, and teaming	\$4,384.13		
Transferred to Highways, Subway at Kent street account	99.65		
	<hr/>		
		4,284.48	
Expenditures			68,761.01
Excess			356.06
Highways, Paving Somerville avenue from Park street, westerly:—			
Balance from 1897	\$466.28		
Transferred to Highways, paving Webster avenue account	256.60		
	<hr/>		
		209.68	
Expenditures			209.68
Highways, Paving Webster avenue, Fitchburg Railroad to Cambridge line:—			
Appropriation, Funded Debt account	7,000.00		
Transferred from Highways, paving Somerville avenue account		256.60	
Edgestones		30.35	
Expenditures			7,033.70
Balance to 1899			253.25

REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 85

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Highways, Subway at Kent street:—			
Balance from 1897		\$257.99	
Transferred from other accounts		148.81	
Expenditures			\$406.80
Highways, Subway at Sacramento street:—			
Balance from 1897	\$561.50		
Transferred to Highways, Subway at Kent street account	49.16		
		512.34	
Expenditures			512.34
Highways, Steam Road Roller:—			
Appropriation, Funded Debt account	\$3,500.00		
Expenditures			3,190.00
Excess			310.00
Indigent Soldiers and Sailors:—			
Appropriation	400.00		
State of Massachusetts		269.00	
Expenditures			538.00
Excess			131.00
Interest:—			
Appropriation	\$80,000.00		
Transferred to other accounts	12,200.00		
	67,800.00		
On taxes, etc.		13,315.54	
Expenditures			66,498.27
Excess			14,617.27
Miscellaneous:—			
Appropriation	\$9,000.00		
Transferred from Interest account	5,000.00		
	14,000.00		
Costs on taxes, etc.		5,429.09	
Expenditures			17,208.61
Excess			2,220.48

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Overlay and Abatement:—			
Appropriation	\$1,823.64		
Taxes		\$20.70	
Abatements in 1898 less balance of \$2,539.04 from 1897			\$3,373.77
Deficiency			1,529.43
Police:—			
Appropriation	48,500.00		
Court fees, fines, etc.		3,776.50	
Expenditures			52,616.34
Deficiency			339.84
Police Station Incidentals:—			
Appropriation	2,000.00		
Rent of Police Court		600.00	
Expenditures			2,098.46
Excess			501.54
Printing and Stationery:—			
Appropriation	\$6,500.00		
Transferred from In- terest account	1,500.00		
	8,000.00		
Expenditures			7,575.60
Excess			424.40
Public Grounds:—			
Appropriation	\$6,000.00		
Transferred from In- terest account	400.00		
	6,400.00		
Labor on Lincoln Park and care of Parkway		1,317.76	
Expenditures			7,688.79
Excess			28.97
Public Grounds, Lincoln Park:—			
Appropriation, Funded Debt ac- count	5,000.00		
Expenditures			4,987.87
Excess			12.13
Public Grounds, Prospect Hill Park:—			
Appropriation, Fund- ed Debt account	\$20,000.00		
Transferred from Ar- mory account	356.21		
	20,356.21		
Expenditures			20,356.21

REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 87

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Public Library :—			
Appropriation	\$7,500.00		
Dog licenses, fines, etc.		\$2,790.24	
Expenditures, including balance of \$139.01 deficiency in 1897			\$10,282.84
Balance to 1899			7.40
 Reduction of Funded Debt :—			
Balance from 1897		6,823.36	
Appropriation . . . \$155,200.00			
Transferred to School Teachers' Salaries account 12,946.83			
	142,253.17		
Water Works Income, trans- ferred		22,000.00	
Premium on bonds, etc.		10,023.10	
Expenditures			172,000.00
Balance to 1899			9,099.63
 Relief and Burial of Indigent Soldiers and Sailors :—			
Appropriation . . . \$9,000.00			
Transferred from In- terest account 2,000.00			
	11,000.00		
State of Massachu- setts, burials		455.00	
Expenditures			11,358.93
Excess			96.07
 Salaries :—			
Appropriation	8,000.00		
Bank and Corporation taxes		27,463.89	
Expenditures			32,158.00
Excess			3,305.89
 School Contingent :—			
Appropriation	18,000.00		
Tuition, etc.		294.25	
Expenditures			19,685.59
Deficiency			1,391.34

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
School Contingent, Janitors' Salaries:—			
Appropriations	\$17,000.00		
Expenditures			\$17,372.58
Deficiency			372.58
School Fuel:—			
Appropriation	10,000.00		
Expenditures			9,765.58
Excess			234.42
Schoolhouse, Burns Addition:—			
Appropriation, Funded Debt account	12,000.00		
Balance to 1899			12,000.00
Schoolhouse, English High:—			
Appropriation, Funded Debt account	1,000.00		
Furniture and gas fixtures		\$114.30	
Expenditures			1,114.30
Schoolhouse Incidentals:—			
Appropriation	17,000.00		
Insurance, old materials, etc. . . .		313.31	
Expenditures			16,955.60
Excess			357.71
Schoolhouse, Prescott, Heating and Ventilating:—			
Appropriation, Funded Debt account	6,000.00		
Expenditures			3,516.23
Balance to 1899			2,483.77
Schoolhouse, Spring Hill District:—			
Appropriation, Funded Debt account	\$6,000.00		
Transferred from Armory account	521.03		
	<u>6,521.03</u>		
Balance from 1897		32,920.57	
Transferred from Sewers, Construction account		600.00	
Expenditures			40,041.60

REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 89

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Schoolhouse, land in Ward Two : —			
Balance from 1897		\$94.75	
Expenditures			\$94.00
Excess . . . . .			.75
Schoolhouse, Ward Two : —			
Appropriation, Funded Debt ac- count \$34,000.00			
Transferred from Ar- mory account 4,000.00			
	\$38,000.00		
Old buildings		70.00	
Expenditures			9,848.53
Balance to 1899			28,221.47
School Teachers' Salaries : —			
Appropriations \$190,000.00			
Transferred from Re- duction of Funded Debt account 12,946.83			
	202,946.83		
Expenditures			202,946.83
Sewers, Construction : —			
Appropriation, Funded Debt ac- count 25,000.00			
Balance from 1897 \$19,274.35			
Transferred to school- house, Spring Hill District account 600.00			
		18,674.35	
Water Works Income account		67,280.96	
Permits, etc.		107.36	
Expenditures, less assessments, \$11,107.04			94,180.44
Balance to 1899			16,882.23
Sewers, Maintenance : —			
Appropriation \$7,000.00			
Transferred from In- terest account 300.00			
	7,300.00		
Labor, materials, etc.		345.71	
Expenditures			7,755.06
Deficiency			109.35

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Sidewalks :—			
Appropriation, tax levy	\$10,000.00		
Appropriation, Fund- ed Debt account	5,000.00		
Transferred from Highways account	167.41		
	\$15,167.41		
Edgestones, bricks, etc.		\$260.49	
Expenditures, less assessments, \$14,848.14			\$15,427.90
Street Lights :—			
Appropriation	45,000.00		
Expenditures			43,897.56
Excess			1,102.44
County of Middlesex :—			
Appropriation	44,894.56		
Expended, County Tax			44,894.56
State of Massachusetts, State Tax :—			
Appropriation	27,075.00		
Expended, State Tax			27,075.00
State of Massachusetts, Metropoli- tan Sewer Assessment :—			
Appropriation	31,566.31		
Expended, Metropolitan Sewer assessment			31,566.31
State of Massachusetts, Non-Resi- dent Bank Stock :—			
Appropriation	1,043.12		
Expended, tax on non-resident bank stock			1,043.12
State of Massachusetts, Metropoli- tan Water Assessments :—			
Water Works Income		14,250.19	
Expended, Metropolitan Water assessment			14,250.19

REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 91

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Support of Poor :—			
Appropriation	\$20,000.00		
Transferred from In- terest account	3,000.00		
	<hr/>		
	\$23,000.00		
Aid furnished		\$6,552.98	
Expenditures			\$28,522.21
Excess			1,030.77
Support of Poor, Almshouse :—			
Appropriation, Funded Debt ac- count	20,000.00		
Balance to 1899			20,000.00
Water Maintenance :—			
Appropriation from Water Works In- come of 1898	\$60,000.00		
Water Works In- come of 1897	5,278.88		
Water Services	383.95		
	<hr/>		
	\$65,662.83		
Transferred to Water Wks. Ext. acct.	7,000.00		
	<hr/>		
		58,662.83	
Labor, materials, etc.		3,280.18	
Expenditures			61,901.05
Excess			41.96
Water Loan Interest :—			
Appropriation from Water Works Income account		11,925.00	
Expenditures			11,925.00
Watering Streets :—			
Appropriations	\$ 3,500.00		
Assessed to abutters	13,384.48		
	<hr/>		
	16,884.48		
Received of abutters		345.88	
Expenditures			17,015.98
Excess			214.38

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Water Works Extension :—			
Appropriation from Water Works In- come account	\$20,000.00		
Transferred from Water Maintenance account	7,000.00		
	\$27,000.00		
Expenditures			\$26,970.22
Excess			29.78
Water Works Income :—			
Income of the Water Works	\$195,456.15		
Appropriations	195,456.15		
	\$1,130,187.11		
	345,170.06	\$345,170.06	\$1,475,357.17
	\$1,475,357.17		\$1,475,357.17

RECAPITULATION.

Appropriations as per tax levy	\$954,187.11		
Appropriations, Funded Debt	176,000.00		
Water Works Income	200,735.03		
National Bank and Corporation Taxes	27,463.89		
Court Fees, Fines, etc.	3,776.50		
County of Middlesex, dog licenses	2,268.86		
Unexpended balances of 1897	60,450.80		
Received from all other sources	50,474.98		
Expenditures			\$1,352,087.44
Excess and Deficiency, balance to credit			16,549.22
Unexpended balances to 1899			106,720.51
	\$1,475,357.17		\$1,475,357.17

The assets of the city available for the payment of its unfunded liabilities are as follows :—

Cash	\$70,376.04
Real Estate Liens	1,664.60
	\$72,040.64
<i>Amount carried forward</i>	\$72,040.64

REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 93

<i>Amount brought forward</i>	\$72,040.64	
Sewer Assessments	7,435.90	
Sidewalk Assessments	5,193.11	
State of Massachusetts, Burial of Indigent Soldiers and Sailors	455.00	
State of Massachusetts, Indigent Soldiers and Sailors	257.00	
State of Massachusetts, State Aid	10,848.50	
Taxes	355,654.19	
Watering Streets Assessments	16.12	
	<hr/>	
Total amount of assets		\$451,900.46
The liabilities are :—		
Armory	\$ 10,122.76	
Fire Department, Fire Station, Clarendon Hill	7,650.00	
Highways, Paving Webster Avenue	253.25	
Overplus on Tax Sales	157.13	
Public Library	7.40	
Public Library, Isaac Pitman Fund	1,000.00	
Reduction of Funded Debt	9,099.63	
Schoolhouse, Burns, Addition	12,000.00	
Schoolhouse, Ward Two	28,221.47	
Schoolhouse, Prescott, Heating and Ventilating	2,483.77	
Sewers, Construction	16,882.23	
Sundry Persons	27,473.60	
Support of Poor, Almshouse	20,000.00	
Temporary Loans	300,000.00	
	<hr/>	
Total amount of liabilities		\$435,351.24
Excess of available assets over liabilities		16,549.22
		<hr/> <hr/>
		\$451,900.46

Total cash receipts for the year, including a balance of \$90,433.87 from the year 1897	\$2,399,107.23
Total cash disbursements	2,328,731.19
	<hr/>
Leaving in the treasury the sum of	\$70,376.04

A detailed statement of the public property, funded debt, and the receipts and disbursements of the several accounts will be found in the following appendix.

Respectfully submitted,

JOHN F. COLE,

Treasurer and Collector of Taxes.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.

PUBLIC PROPERTY DECEMBER 31, 1897.

Central Hill land (13 acres, 5,032 feet)		\$200,000.00
City Hall	\$40,662.73	
Furniture	10,000.00	
		50,662.73
Public Library building	30,967.58	
Public Library	25,000.00	
		55,967.58
City Hall Annex		21,587.43
Latin High Schoolhouse	52,000.00	
Furniture	3,500.00	
Philosophical apparatus	500.00	
		56,000.00
English High Schoolhouse	129,579.39	
Furniture	5,000.00	
Philosophical and manual train- ing apparatus	7,000.00	
		141,579.39
Prescott Schoolhouse, land (21,444 feet) and building	45,000.00	
Furniture	2,000.00	
		47,000.00
Luther V. Bell Schoolhouse, land (23,396 feet) and building	45,000.00	
Furniture	2,000.00	
		47,000.00
<i>Amount carried forward</i>		\$619,797.13

<i>Amount brought forward</i>		\$619,797.13
Forster Schoolhouse, land (27,499 feet) and building	\$45,000.00	
Furniture	2,000.00	
	<hr/>	47,000.00
Morse Schoolhouse, land (29,109 feet) and building	45,000.00	
Furniture	2,000.00	
	<hr/>	47,000.00
Edgerly Schoolhouse, land (26,428 feet) and building	45,000.00	
Furniture	2,000.00	
	<hr/>	47,000.00
Highland Schoolhouse, land (23,260 feet) and building	46,837.19	
Furniture	2,000.00	
	<hr/>	48,837.19
Charles G. Pope Schoolhouse, land (27,236 feet) and building	60,000.00	
Furniture	2,000.00	
	<hr/>	62,000.00
William H. Hodgkins Schoolhouse, land (35,034 feet) and building	58,289.34	
Furniture	2,500.00	
	<hr/>	60,789.34
Martin W. Carr Schoolhouse, land (14,850 feet) and building	63,921.03	
Furniture	3,000.00	
	<hr/>	66,921.03
Jacob T. Glines Schoolhouse, land (28,800 feet) and building	71,560.71	
Furniture	2,100.00	
	<hr/>	73,660.71
<i>Amount carried forward</i>		\$1,073,005.40

<i>Amount brought forward</i>		\$1,073,005.40
O. S. Knapp Schoolhouse, land (24,517 feet) and building	\$48,256.67	
Furniture	2,000.00	
	<hr/>	50,256.67
Bingham Schoolhouse, land (21,017 feet) and building	36,506.87	
Furniture	1,400.00	
	<hr/>	37,906.87
Sanford Hanscom Schoolhouse, land (12,756 feet) and build- ing	43,632.19	
Furniture	900.00	
	<hr/>	44,532.19
Davis Schoolhouse, land (38,152 feet) and building	25,000.00	
Furniture	700.00	
	<hr/>	25,700.00
George W. Durell Schoolhouse, land (13,883 feet) and build- ing	16,179.10	
Furniture	700.00	
	<hr/>	16,879.10
Cummings Schoolhouse, land (11,300 feet) and building	15,000.00	
Furniture	700.00	
	<hr/>	15,700.00
Prospect Hill Schoolhouse, land (25,315 feet) and building	20,000.00	
Furniture	1,000.00	
	<hr/>	21,000.00
Lincoln Schoolhouse, land (17,662 feet) and building	14,000.00	
Furniture	700.00	
	<hr/>	14,700.00
	<hr/>	
<i>Amount carried forward</i>		\$1,299,680.23

<i>Amount brought forward</i>		\$1,299,680.23
Jackson Schoolhouse, land (11,212 feet) and building	\$ 8,000.00	
Furniture	600.00	
	<hr/>	8,600.00
Bennett Schoolhouse, land 20,560 feet) and building	10,000.00	
Furniture	600.00	
	<hr/>	10,600.00
Harvard Schoolhouse, land (9,810 feet) and building	3,500.00	
Furniture	100.00	
	<hr/>	3,600.00
Franklin Schoolhouse, land (33,017 feet) and building	15,000.00	
Furniture	600.00	
	<hr/>	15,600.00
Spring Hill Schoolhouse, land (4,991 feet) and building	1,500.00	
Furniture	100.00	
	<hr/>	1,600.00
Burns Schoolhouse, land 16,080 feet) and building	15,000.00	
Furniture	700.00	
	<hr/>	15,700.00
Schoolhouse Ward Two, Washington street, land (46,080 feet) and building, unfinished		9,872.53
City Farm, land (10 acres, 12,523 feet)		40,000.00
Cedar Street Schoolhouse	700.00	
Furniture	100.00	
	<hr/>	800.00
City stables and dwelling houses		28,322.00
Equipments for highway repairs		21,690.00
Watering carts and sheds		5,000.00
		<hr/>
<i>Amount carried forward</i>		\$1,461,064.76

<i>Amount brought forward</i>		\$1,461,064.76
No. 1 Fire Station, land (8,279 feet) and building	\$27,052.93	
Engine No. 2 and apparatus	4,000.00	
Hose wagon No. 1 and apparatus	1,500.00	
Furniture	400.00	
	<hr/>	32,952.93
No. 2 Fire Station, land (5,400 feet) and building	8,000.00	
Furniture	400.00	
Hose wagon No. 2 and apparatus	1,500.00	
	<hr/>	9,900.00
No. 3 Fire Station, land (5,226 feet) and building	9,000.00	
Furniture	400.00	
Hose wagon No. 3 and apparatus	1,500.00	
Hook and ladder truck and apparatus	3,400.00	
	<hr/>	14,300.00
No. 4 Fire Station, land (9,100 feet) and building	19,054.42	
Furniture	400.00	
Engine No. 4 and apparatus	4,000.00	
Combination wagon and apparatus	2,500.00	
	<hr/>	25,954.42
No. 5 Fire Station, land (39,456 feet) and building	16,000.00	
Furniture	400.00	
Hose wagon No. 5 and apparatus	1,500.00	
	<hr/>	17,900.00
		<hr/>
<i>Amount carried forward</i>		\$1,562,072.11

<i>Amount brought forward</i>		\$1,562.072.11
Hook and Ladder Station No. 2, land (9,902.7 square feet) and building, equipment and furniture		14,753.71
Central Fire Station, land (10,019 feet) and building	\$43,603.89	
Furniture	500.00	
Engine No. 1 and apparatus	4,000.00	
Hose wagon and apparatus	2,000.00	
Two relief hose carriages	1,000.00	
One relief hook and ladder	400.00	
Chemical Engine A and equip- ment	2,498.53	
	<hr/>	54,002.42
Fire Alarm and Police Signal apparatus		36,100.00
Police Station, land (15,232 feet) and building	45,000.00	
Furniture	3,000.00	
	<hr/>	48,000.00
Prospect street, land (7,918 feet) and building		7,000.00
Broadway Park (cost \$212,993.20)		125,000.00
Joy street, land (2,960 feet)		500.00
Walnut Hill, land (10,980 feet)		1,000.00
Elm street, land (18,000 feet)		6,000.00
Webster avenue, land (11,050 feet)		4,241.50
Holland street, land (5 acres, 6,806 feet)		20,000.00
Gravel land in Waltham (about 35 acres)		15,000.00
Gravel land in Wakefield (about 1 1-3 acres)		5,000.00
Gravel land rear North street (about 5 43-100 acres)		4,000.00
Nathan Tufts Park (about 4 54-100 acres)		47,649.28
Somerville Water Works, cost		721,578.98
Oliver street, land (63,069 feet)		7,500.00
Whipple street, land (15,240 feet)		800.00
	<hr/>	
<i>Amount carried forward</i>		\$2,680,198.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 101

<i>Amount brought forward</i>	\$2,680,198.00
Lincoln Park, Washington street (359,604.77 feet)	42,000.14
Fire Station, Clarendon Hill, land (8,113.1 feet) and building, unfinished	9,814.20
Prospect Hill, Park (56,700 feet)	20,356.21
	<hr/>
Total amount of public property	\$2,752,368.55

TABLE B.
FUNDED DEBT DECEMBER 31, 1898.
CITY LOAN BONDS.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
July 1, 1894	1,620 to 1,628	4	July 1, 1899	\$1,000	\$ 9,000
July 1, 1895	1,791 to 1,809	4	July 1, 1899	1,000	19,000
July 1, 1896	2,078 to 2,087	4	July 1, 1899	1,000	10,000
July 1, 1897	2,234 to 2,244	4	July 1, 1899	1,000	11,000
July 1, 1898	2,365 to 2,375	4	July 1, 1899	1,000	11,000
October 1, 1889	994 to 1,002	4	Oct. 1, 1899	1,000	9,000
October 1, 1890	1,083 to 1,092	4	Oct. 1, 1899	1,000	10,000
October 1, 1890	1,135 to 1,138	4	Oct. 1, 1899	1,000	4,000
October 1, 1891	1,196 to 1,202	4	Oct. 1, 1899	1,000	7,000
October 1, 1893	1,445 to 1,468	4½	Oct. 1, 1899	1,000	24,000
January 1, 1892	1,294 to 1,303	4	Jan. 1, 1900	1,000	10,000
July 1, 1894	1,629 to 1,637	4	July 1, 1900	1,000	9,000
July 1, 1895	1,810 to 1,827	4	July 1, 1900	1,000	18,000
July 1, 1896	2,088 to 2,097	4	July 1, 1900	1,000	10,000
July 1, 1897	2,245 to 2,255	4	July 1, 1900	1,000	11,000
July 1, 1898	2,376 to 2,386	4	July 1, 1900	1,000	11,000
October 1, 1890	1,093 to 1,102	4	Oct. 1, 1900	1,000	10,000
October 1, 1890	1,139 to 1,142	4	Oct. 1, 1900	1,000	4,000
October 1, 1891	1,203 to 1,208	4	Oct. 1, 1900	1,000	6,000
October 1, 1893	1,469 to 1,492	4½	Oct. 1, 1900	1,000	24,000
January 1, 1892	1,304 to 1,313	4	Jan. 1, 1901	1,000	10,000
July 1, 1894	1,638 to 1,646	4	July 1, 1901	1,000	9,000
July 1, 1895	1,828 to 1,845	4	July 1, 1901	1,000	18,000
July 1, 1896	2,098 to 2,106	4	July 1, 1901	1,000	9,000
July 1, 1897	2,256 to 2,266	4	July 1, 1901	1,000	11,000
July 1, 1898	2,387 to 2,396	4	July 1, 1901	1,000	10,000
October 1, 1890	1,143 to 1,146	4	Oct. 1, 1901	1,000	4,000
<i>Amount carried forward</i>					\$298,000

TABLE B.—CITY LOAN BONDS.—*Continued.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
					<i>Amount brought forward</i> \$298,000
October 1, 1891	1,209 to 1,211	4	Oct. 1, 1901	\$1,000	3,000
October 1, 1893	1,493 to 1,516	4½	Oct. 1, 1901	1,000	24,000
January 1, 1892	1,314 to 1,323	4	Jan. 1, 1902	1,000	10,000
July 1, 1894	1,647 to 1,655	4	July 1, 1902	1,000	9,000
July 1, 1895	1,846 to 1,863	4	July 1, 1902	1,000	18,000
July 1, 1896	2,107 to 2,115	4	July 1, 1902	1,000	9,000
July 1, 1897	2,267 to 2,275	4	July 1, 1902	1,000	9,000
July 1, 1898	2,397 to 2,406	4	July 1, 1902	1,000	10,000
October 1, 1891	1,212 to 1,214	4	Oct. 1, 1902	1,000	3,000
October 1, 1893	1,517 to 1,546	4½	Oct. 1, 1902	1,000	30,000
July 1, 1894	1,656 to 1,664	4	July 1, 1903	1,000	9,000
July 1, 1895	1,864 to 1,881	4	July 1, 1903	1,000	18,000
July 1, 1896	2,116 to 2,123	4	July 1, 1903	1,000	8,000
July 1, 1897	2,276 to 2,284	4	July 1, 1903	1,000	9,000
July 1, 1898	2,407 to 2,416	4	July 1, 1903	1,000	10,000
October 1, 1891	1,215 to 1,217	4	Oct. 1, 1903	1,000	3,000
October 1, 1893	1,547 to 1,581	4½	Oct. 1, 1903	1,000	35,000
July 1, 1894	1,655 to 1,673	4	July 1, 1904	1,000	9,000
July 1, 1895	1,882 to 1,899	4	July 1, 1904	1,000	18,000
July 1, 1896	2,124 to 2,131	4	July 1, 1904	1,000	8,000
July 1, 1897	2,285 to 2,293	4	July 1, 1904	1,000	9,000
July 1, 1898	2,417 to 2,426	4	July 1, 1904	1,000	10,000
October 1, 1891	1,218 to 1,220	4	Oct. 1, 1904	1,000	3,000
July 1, 1894	1,674 to 1,679	4	July 1, 1905	1,000	6,000
July 1, 1895	1,900 to 1,917	4	July 1, 1905	1,000	18,000
July 1, 1896	2,132 to 2,139	4	July 1, 1905	1,000	8,000
July 1, 1897	2,294 to 2,302	4	July 1, 1905	1,000	9,000
July 1, 1898	2,427 to 2,436	4	July 1, 1905	1,000	10,000
					<i>Amount carried forward</i> \$623,000

TABLE B. — CITY LOAN BONDS. — *Continued.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
	<i>Amount brought forward</i>				\$623,000
October 1, 1891	1,221 to 1,223	4	Oct. 1, 1905	\$1,000	3,000
July 1, 1894	1,680 to 1,685	4	July 1, 1906	1,000	6,000
July 1, 1895	1,918 to 1,932	4	July 1, 1906	1,000	15,000
July 1, 1896	2,140 to 2,147	4	July 1, 1906	1,000	8,000
July 1, 1897	2,303 to 2,311	4	July 1, 1906	1,000	9,000
July 1, 1898	2,437 to 2,446	4	July 1, 1906	1,000	10,000
July 1, 1894	1,686 to 1,691	4	July 1, 1907	1,000	6,000
July 1, 1895	1,933 to 1,947	4	July 1, 1907	1,000	15,000
July 1, 1896	2,148 to 2,155	4	July 1, 1907	1,000	8,000
July 1, 1897	2,312 to 2,320	4	July 1, 1907	1,000	9,000
July 1, 1898	2,447 to 2,456	4	July 1, 1907	1,000	10,000
July 1, 1894	1,692 to 1,697	4	July 1, 1908	1,000	6,000
July 1, 1895	1,948 to 1,962	4	July 1, 1908	1,000	15,000
July 1, 1896	2,156 to 2,163	4	July 1, 1908	1,000	8,000
July 1, 1897	2,321 to 2,325	4	July 1, 1908	1,000	5,000
July 1, 1898	2,457 to 2,465	4	July 1, 1908	1,000	9,000
July 1, 1894	1,698 to 1,703	4	July 1, 1909	1,000	6,000
July 1, 1895	1,963 to 1,976	4	July 1, 1909	1,000	14,000
July 1, 1896	2,164 to 2,171	4	July 1, 1909	1,000	8,000
July 1, 1897	2,326 to 2,330	4	July 1, 1909	1,000	5,000
July 1, 1898	2,466 to 2,470	4	July 1, 1909	1,000	5,000
July 1, 1894	1,704 to 1,709	4	July 1, 1910	1,000	6,000
July 1, 1895	1,977 to 1,990	4	July 1, 1910	1,000	14,000
July 1, 1896	2,172 to 2,179	4	July 1, 1910	1,000	8,000
July 1, 1897	2,331 to 2,335	4	July 1, 1910	1,000	5,000
July 1, 1898	2,471 to 2,475	4	July 1, 1910	1,000	5,000
July 1, 1894	1,710 to 1,715	4	July 1, 1911	1,000	6,000
July 1, 1895	1,991 to 2,004	4	July 1, 1911	1,000	14,000
	<i>Amount carried forward</i>				\$861,000

TABLE B.—CITY LOAN BONDS.— *Concluded.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
	<i>Amount brought forward</i>				\$861,000
July 1, 1896	2,180 to 2,187	4	July 1, 1911	\$1,000	8,000
July 1, 1897	2,336 to 2,340	4	July 1, 1911	1,000	5,000
July 1, 1898	2,476 to 2,480	4	July 1, 1911	1,000	5,000
July 1, 1894	1,716 to 1,721	4	July 1, 1912	1,000	6,000
July 1, 1895	2,005 to 2,018	4	July 1, 1912	1,000	14,000
July 1, 1896	2,188 to 2,194	4	July 1, 1912	1,000	7,000
July 1, 1897	2,341 to 2,344	4	July 1, 1912	1,000	4,000
July 1, 1898	2,481 to 2,485	4	July 1, 1912	1,000	5,000
July 1, 1894	1,722 to 1,727	4	July 1, 1913	1,000	6,000
July 1, 1895	2,019 to 2,031	4	July 1, 1913	1,000	13,000
July 1, 1896	2,195 to 2,201	4	July 1, 1913	1,000	7,000
July 1, 1897	2,345 to 2,348	4	July 1, 1913	1,000	4,000
July 1, 1898	2,486 to 2,490	4	July 1, 1913	1,000	5,000
July 1, 1894	1,728 to 1,733	4	July 1, 1914	1,000	6,000
July 1, 1895	2,032 to 2,044	4	July 1, 1914	1,000	13,000
July 1, 1896	2,202 to 2,208	4	July 1, 1914	1,000	7,000
July 1, 1897	2,349 to 2,352	4	July 1, 1914	1,000	4,000
July 1, 1898	2,491 to 2,495	4	July 1, 1914	1,000	5,000
July 1, 1895	2,045 to 2,057	4	July 1, 1915	1,000	13,000
July 1, 1896	2,209 to 2,215	4	July 1, 1915	1,000	7,000
July 1, 1897	2,353 to 2,356	4	July 1, 1915	1,000	4,000
July 1, 1898	2,496 to 2,500	4	July 1, 1915	1,000	5,000
July 1, 1896	2,216 to 2,222	4	July 1, 1916	1,000	7,000
July 1, 1897	2,357 to 2,360	4	July 1, 1916	1,000	4,000
July 1, 1898	2,501 to 2,505	4	July 1, 1916	1,000	5,000
July 1, 1897	2,361 to 2,364	4	July 1, 1917	1,000	4,000
July 1, 1898	2,506 to 2,510	4	July 1, 1917	1,000	5,000
July 1, 1898	2,511 to 2,515	4	July 1, 1918	1,000	5,000
	<i>Total amount of City Loan Bonds</i>				\$1,044,000

TABLE B.
SEWER LOAN BONDS.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
July 1, 1894	58	4	July 1, 1899	\$1,000	\$1,000
July 1, 1897	175	4	July 1, 1899	1,000	1,000
July 1, 1898	199	4	July 1, 1899	1,000	1,000
October 1, 1893	41	4½	Oct. 1, 1899	1,000	1,000
July 1, 1894	59	4	July 1, 1900	1,000	1,000
July 1, 1897	176	4	July 1, 1900	1,000	1,000
July 1, 1898	200	4	July 1, 1900	1,000	1,000
October 1, 1893	42	4½	Oct. 1, 1900	1,000	1,000
July 1, 1894	60	4	July 1, 1901	1,000	1,000
July 1, 1897	177	4	July 1, 1901	1,000	1,000
July 1, 1898	201	4	July 1, 1901	1,000	1,000
October 1, 1893	43	4½	Oct. 1, 1901	1,000	1,000
July 1, 1894	61	4	July 1, 1902	1,000	1,000
July 1, 1897	178	4	July 1, 1902	1,000	1,000
July 1, 1898	202	4	July 1, 1902	1,000	1,000
October 1, 1893	44	4½	Oct. 1, 1902	1,000	1,000
July 1, 1894	62	4	July 1, 1903	1,000	1,000
July 1, 1897	179	4	July 1, 1903	1,000	1,000
July 1, 1898	203	4	July 1, 1903	1,000	1,000
October 1, 1893	45	4½	Oct. 1, 1903	1,000	1,000
July 1, 1894	63	4	July 1, 1904	1,000	1,000
July 1, 1897	180	4	July 1, 1904	1,000	1,000
July 1, 1898	204	4	July 1, 1904	1,000	1,000
October 1, 1893	46	4½	Oct. 1, 1904	1,000	1,000
July 1, 1894	64	4	July 1, 1905	1,000	1,000
					\$25,000
					<i>Amount carried forward</i>

TABLE B.—SEWER LOAN BONDS.— *Continued.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
					<i>Amount brought forward</i> \$25,000
July 1, 1897	181	4	July 1, 1905	\$1,000	1,000
July 1, 1898	205	4	July 1, 1905	1,000	1,000
October 1, 1893	47	4½	Oct. 1, 1905	1,000	1,000
July 1, 1894	65	4	July 1, 1906	1,000	1,000
July 1, 1897	182	4	July 1, 1906	1,000	1,000
July 1, 1898	206	4	July 1, 1906	1,000	1,000
October 1, 1893	48	4½	Oct. 1, 1906	1,000	1,000
July 1, 1894	66	4	July 1, 1907	1,000	1,000
July 1, 1897	183	4	July 1, 1907	1,000	1,000
July 1, 1898	207	4	July 1, 1907	1,000	1,000
October 1, 1893	49	4½	Oct. 1, 1907	1,000	1,000
July 1, 1894	67	4	July 1, 1908	1,000	1,000
July 1, 1897	184	4	July 1, 1908	1,000	1,000
July 1, 1898	208	4	July 1, 1908	1,000	1,000
October 1, 1893	50	4½	Oct. 1, 1908	1,000	1,000
July 1, 1894	68	4	July 1, 1909	1,000	1,000
July 1, 1897	185	4	July 1, 1909	1,000	1,000
July 1, 1898	209	4	July 1, 1909	1,000	1,000
October 1, 1893	51	4½	Oct. 1, 1909	1,000	1,000
July 1, 1894	69	4	July 1, 1910	1,000	1,000
July 1, 1897	186	4	July 1, 1910	1,000	1,000
July 1, 1898	210	4	July 1, 1910	1,000	1,000
October 1, 1893	52	4½	Oct. 1, 1910	1,000	1,000
July 1, 1894	70	4	July 1, 1911	1,000	1,000
July 1, 1897	187	4	July 1, 1911	1,000	1,000
July 1, 1898	211	4	July 1, 1911	1,000	1,000
October 1, 1893	53	4½	Oct. 1, 1911	1,000	1,000
					<i>Amount carried forward</i> \$52,000

TABLE B.—SEWER LOAN BONDS.— *Continued.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
					<i>Amount brought forward</i> \$52,000
July 1, 1894	71	4	July 1, 1912	\$1,000	1,000
July 1, 1897	188	4	July 1, 1912	1,000	1,000
July 1, 1898	212	4	July 1, 1912	1,000	1,000
July 1, 1894	72	4	July 1, 1913	1,000	1,000
July 1, 1897	189	4	July 1, 1913	1,000	1,000
July 1, 1898	213	4	July 1, 1913	1,000	1,000
July 1, 1894	73	4	July 1, 1914	1,000	1,000
July 1, 1897	190	4	July 1, 1914	1,000	1,000
July 1, 1898	214	4	July 1, 1914	1,000	1,000
July 1, 1897	191	4	July 1, 1915	1,000	1,000
July 1, 1898	215	4	July 1, 1915	1,000	1,000
July 1, 1897	192	4	July 1, 1916	1,000	1,000
July 1, 1898	216	4	July 1, 1916	1,000	1,000
July 1, 1897	193	4	July 1, 1917	1,000	1,000
July 1, 1898	217	4	July 1, 1917	1,000	1,000
July 1, 1897	194	4	July 1, 1918	1,000	1,000
July 1, 1898	218	4	July 1, 1918	1,000	1,000
July 1, 1897	195	4	July 1, 1919	1,000	1,000
July 1, 1898	219	4	July 1, 1919	1,000	1,000
July 1, 1897	196	4	July 1, 1920	1,000	1,000
July 1, 1898	220	4	July 1, 1920	1,000	1,000
July 1, 1897	197	4	July 1, 1921	1,000	1,000
July 1, 1898	221	4	July 1, 1921	1,000	1,000
July 1, 1897	198	4	July 1, 1922	1,000	1,000
July 1, 1898	222	4	July 1, 1922	1,000	1,000
July 1, 1898	223	4	July 1, 1923	1,000	1,000
					<i>Total amount of Sewer Loan Bonds</i> \$78,000

TABLE B.—SEWER LOAN BONDS.—*Concluded.*

ISSUED UNDER AUTHORITY OF CHAPTER 357, ACTS OF 1895, BEYOND THE LIMIT FIXED BY LAW.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
July 1, 1895	86 to 89	4	July 1, 1899	\$1,000	\$4,000
July 1, 1895	90 to 93	4	July 1, 1900	1,000	4,000
July 1, 1895	94 to 97	4	July 1, 1901	1,000	4,000
July 1, 1895	98 to 101	4	July 1, 1902	1,000	4,000
July 1, 1895	102 to 105	4	July 1, 1903	1,000	4,000
July 1, 1895	106 to 109	4	July 1, 1904	1,000	4,000
July 1, 1895	110 to 113	4	July 1, 1905	1,000	4,000
July 1, 1895	114 to 116	4	July 1, 1906	1,000	3,000
July 1, 1895	117 to 119	4	July 1, 1907	1,000	3,000
July 1, 1895	120 to 122	4	July 1, 1908	1,000	3,000
July 1, 1895	123 to 125	4	July 1, 1909	1,000	3,000
July 1, 1895	126 to 128	4	July 1, 1910	1,000	3,000
July 1, 1895	129 to 131	4	July 1, 1911	1,000	3,000
July 1, 1895	132 to 134	4	July 1, 1912	1,000	3,000
July 1, 1895	135 to 137	4	July 1, 1913	1,000	3,000
July 1, 1895	138 to 140	4	July 1, 1914	1,000	3,000
July 1, 1895	141 to 143	4	July 1, 1915	1,000	3,000
July 1, 1895	144 to 146	4	July 1, 1916	1,000	3,000
July 1, 1895	147 to 149	4	July 1, 1917	1,000	3,000
July 1, 1895	150 to 152	4	July 1, 1918	1,000	3,000
July 1, 1895	153 to 155	4	July 1, 1919	1,000	3,000
July 1, 1895	156 to 158	4	July 1, 1920	1,000	3,000
July 1, 1895	159 to 161	4	July 1, 1921	1,000	3,000
July 1, 1895	162 to 164	4	July 1, 1922	1,000	3,000
July 1, 1895	165 to 167	4	July 1, 1923	1,000	3,000
July 1, 1895	168 to 170	4	July 1, 1924	1,000	3,000
July 1, 1895	171 to 173	4	July 1, 1925	1,000	3,000
<i>Total amount</i>	<i>of Sewer Loan</i>	<i>Bonds</i>	<i>under above</i>	<i>Act . .</i>	\$88,000

TABLE B.
CITY LOAN PAVING BONDS.
ISSUED UNDER AUTHORITY OF CHAPTER 153, ACTS OF 1892, BEYOND
THE LIMIT FIXED BY LAW.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
October 1, 1892	31 to 35	4	Oct. 1, 1899	\$1,000	\$5,000
October 1, 1892	36 to 40	4	Oct. 1, 1900	1,000	5,000
October 1, 1892	41 to 45	4	Oct. 1, 1901	1,000	5,000
October 1, 1892	46 to 50	4	Oct. 1, 1902	1,000	5,000
October 1, 1892	51 to 55	4	Oct. 1, 1903	1,000	5,000
October 1, 1892	56 to 60	4	Oct. 1, 1904	1,000	5,000
October 1, 1892	61 to 65	4	Oct. 1, 1905	1,000	5,000
October 1, 1892	66 to 70	4	Oct. 1, 1906	1,000	5,000
October 1, 1892	71 to 75	4	Oct. 1, 1907	1,000	5,000
October 1, 1892	76 to 80	4	Oct. 1, 1908	1,000	5,000
October 1, 1892	81 to 85	4	Oct. 1, 1909	1,000	5,000
October 1, 1892	86 to 90	4	Oct. 1, 1910	1,000	5,000
October 1, 1892	91 to 95	4	Oct. 1, 1911	1,000	5,000
October 1, 1892	96 to 100	4	Oct. 1, 1912	1,000	5,000
	<i>Total amount of</i>	<i>Paving</i>	<i>Bonds</i>		<u>\$70,000</u>

TABLE B.
WATER LOAN BONDS.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
July 1, 1882	167 to 181	5	July 1, 1899	\$1,000	\$15,000
July 1, 1882	182	5	July 1, 1899	500	500
July 1, 1888	288	4	July 1, 1899	1,000	1,000
July 1, 1896	b450	4	July 1, 1899	1,000	1,000
October 1, 1889	330 to 342	4	Oct. 1, 1899	1,000	13,000
October 1, 1890	409 to 410	4	Oct. 1, 1899	1,000	2,000
July 1, 1882	183 to 194	5	July 1, 1900	1,000	12,000
July 1, 1882	195	5	July 1, 1900	500	500
July 1, 1888	289	4	July 1, 1900	1,000	1,000
July 1, 1896	b451	4	July 1, 1900	1,000	1,000
October 1, 1884	200 to 202	4	Oct. 1, 1900	1,000	3,000
October 1, 1889	343 to 344	4	Oct. 1, 1900	1,000	2,000
October 1, 1890	416 to 417	4	Oct. 1, 1900	1,000	2,000
October 1, 1892	a448 to a458	4	Oct. 1, 1900	1,000	11,000
July 1, 1888	290	4	July 1, 1901	1,000	1,000
July 1, 1896	b452	4	July 1, 1901	1,000	1,000
October 1, 1884	203 to 212	4	Oct. 1, 1901	1,000	10,000
October 1, 1892	a459 to 468	4	Oct. 1, 1901	1,000	10,000
July 1, 1885	214 to 219	4	July 1, 1901	1,000	6,000
October 1, 1889	345 to 346	4	Oct. 1, 1901	1,000	2,000
October 1, 1890	418 to 419	4	Oct. 1, 1901	1,000	2,000
July 1, 1885	220 to 226	4	July 1, 1902	1,000	7,000
July 1, 1886	229 to 238	4	July 1, 1902	1,000	10,000
July 1, 1896	b453	4	July 1, 1902	1,000	1,000
	<i>Amount carried forward</i>				\$115,000

TABLE B.—WATER LOAN BONDS.— *Continued.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
	<i>Amount brought forward</i>				\$115,000
October 1, 1889	347 to 348	4	Oct. 1, 1902	\$1,000	2,000
October 1, 1890	420 to 421	4	Oct. 1, 1902	1,000	2,000
October 1, 1892	469 to 475	4	Oct. 1, 1902	1,000	7,000
July 1, 1886	239 to 256	4	July 1, 1903	1,000	18,000
July 1, 1896	b454	4	July 1, 1903	1,000	1,000
October 1, 1889	349 to 350	4	Oct. 1, 1903	1,000	2,000
October 1, 1890	448 to 449	4	Oct. 1, 1903	1,000	2,000
July 1, 1886	257 to 266	4	July 1, 1904	1,000	10,000
July 1, 1896	b455	4	July 1, 1904	1,000	1,000
October 1, 1889	351 to 352	4	Oct. 1, 1904	1,000	2,000
October 1, 1890	450 to 451	4	Oct. 1, 1904	1,000	2,000
July 1, 1896	b456	4	July 1, 1905	1,000	1,000
October 1, 1889	353 to 355	4	Oct. 1, 1905	1,000	3,000
October 1, 1890	452 to 453	4	Oct. 1, 1905	1,000	2,000
July 1, 1876	30 to 31	5½	July 1, 1906	5,000	10,000
July 1, 1896	b457	4	July 1, 1906	1,000	1,000
October 1, 1889	356 to 358	4	Oct. 1, 1906	1,000	3,000
October 1, 1890	454 to 455	4	Oct. 1, 1906	1,000	2,000
July 1, 1886	267 to 276	4	July 1, 1907	1,000	10,000
July 1, 1888	291	4	July 1, 1907	1,000	1,000
July 1, 1896	b458	4	July 1, 1907	1,000	1,000
October 1, 1889	359 to 361	4	Oct. 1, 1907	1,000	3,000
October 1, 1890	456 to 457	4	Oct. 1, 1907	1,000	2,000
July 1, 1888	292	4	July 1, 1908	1,000	1,000
July 1, 1896	b459	4	July 1, 1908	1,000	1,000
	<i>Amount carried forward</i>				\$205,000

TABLE B.—WATER LOAN BONDS.— *Continued.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
					<i>Amount brought forward</i> \$205,000
October 1, 1889	362 to 364	4	Oct. 1, 1908	\$1,000	3,000
October 1, 1890	458 to 459	4	Oct. 1, 1908	1,000	2,000
July 1, 1888	293	4	July 1, 1909	1,000	1,000
October 1, 1889	365 to 367	4	Oct. 1, 1909	1,000	3,000
October 1, 1890	423 to 424	4	Oct. 1, 1909	1,000	2,000
July 1, 1888	294	4	July 1, 1910	1,000	1,000
October 1, 1889	368 to 370	4	Oct. 1, 1910	1,000	3,000
October 1, 1890	426 to 427	4	Oct. 1, 1910	1,000	2,000
July 1, 1888	295	4	July 1, 1911	1,000	1,000
October 1, 1889	371 to 373	4	Oct. 1, 1911	1,000	3,000
October 1, 1890	428 to 429	4	Oct. 1, 1911	1,000	2,000
July 1, 1888	296	4	July 1, 1912	1,000	1,000
October 1, 1889	374 to 376	4	Oct. 1, 1912	1,000	3,000
October 1, 1890	430 to 431	4	Oct. 1, 1912	1,000	2,000
July 1, 1888	297	4	July 1, 1913	1,000	1,000
October 1, 1889	377 to 379	4	Oct. 1, 1913	1,000	3,000
October 1, 1890	432 to 433	4	Oct. 1, 1913	1,000	2,000
July 1, 1888	298	4	July 1, 1914	1,000	1,000
October 1, 1889	380 to 382	4	Oct. 1, 1914	1,000	3,000
October 1, 1890	434 to 435	4	Oct. 1, 1914	1,000	2,000
July 1, 1888	299	4	July 1, 1915	1,000	1,000
October 1, 1889	383 to 384	4	Oct. 1, 1915	1,000	2,000
October 1, 1890	436 to 437	4	Oct. 1, 1915	1,000	2,000
July 1, 1888	300	4	July 1, 1916	1,000	1,000
October 1, 1889	385 to 386	4	Oct. 1, 1916	1,000	2,000
					<i>Amount carried forward</i> \$254,000

TABLE B.—WATER LOAN BONDS.—*Concluded.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
	<i>Amount brought forward</i>				\$254,000
October 1, 1890	438 to 439	4	Oct. 1, 1916	\$1,000	2,000
July 1, 1888	301	4	July 1, 1917	1,000	1,000
October 1, 1889	387 to 388	4	Oct. 1, 1917	1,000	2,000
October 1, 1890	440 to 441	4	Oct. 1, 1917	1,000	2,000
July 1, 1888	302	4	July 1, 1918	1,000	1,000
October 1, 1889	389 to 390	4	Oct. 1, 1918	1,000	2,000
October 1, 1890	442 to 443	4	Oct. 1, 1918	1,000	2,000
October 1, 1889	391 to 392	4	Oct. 1, 1919	1,000	2,000
October 1, 1890	444 to 445	4	Oct. 1, 1919	1,000	2,000
October 1, 1890	446 to 447	4	Oct. 1, 1920	1,000	2,000
	<i>Total Amount of Water Loan Bonds .</i>				\$272,000

RECAPITULATION.

City Loan Bonds	\$1,044,000.00	
Sewer Loan Bonds	78,000.00	
		<hr/>
Total amount of Funded Debt within the limit provided by law		\$1,122,000.00
Sewer Loan Bonds, issued under Chapter 357, Acts of 1895	\$88,000.00	
City Loan Paving Bonds, issued under Chapter 153, Acts of 1892	70,000.00	
		<hr/>
Total amount of Funded Debt outside of the limit allowed by law, issued under special Acts,		158,000.00
Water Loan Bonds		272,000.00
		<hr/>
Total amount of Funded Debt		<u>\$1,552,000.00</u>

TABLE C.

STATEMENT OF ACCOUNTS SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO
DECEMBER 31, 1898.

APPROPRIATIONS.

	CREDIT.	
Taxes, amount assessed	\$834,400.00	
Property and Debt balance	176,000.00	
		<hr/>
		\$1,010,400.00
	DEBIT.	
Armory	\$15,000.00	
Electrical Department	6,400.00	
Electrical Department, Fire Alarm and Police Patrol Boxes	1,500.00	
		<hr/>
<i>Amounts carried forward</i>	\$22,900.00	\$1,010,400.00

<i>Amounts brought forward</i>	\$ 22,900.00	\$1,010,400.00
Engineering Department	9,000.00	
Excess and Deficiency	8,400.00	
Fire Department	56,000.00	
Fire Department, Fire Station Clarendon Hill	15,000.00	
Health Department	20,000.00	
Highways	65,000.00	
Highways, Paving Webster ave- nue, Fitchburg Railroad to Cambridge line	7,000.00	
Highways, Steam Road Roller	3,500.00	
Indigent Soldiers and Sailors	400.00	
Interest	80,000.00	
Lincoln Park	5,000.00	
Miscellaneous	9,000.00	
Police	48,500.00	
Police Station Incidentals	2,000.00	
Printing and Stationery	6,500.00	
Prospect Hill Park	20,000.00	
Public Grounds	6,000.00	
Public Library	7,500.00	
Reduction of Funded Debt	155,200.00	
Relief and Burial of Indigent Soldiers and Sailors	9,000.00	
Salaries	8,000.00	
School Contingent	18,000.00	
School Contingent, Janitors' Sala- ries	17,000.00	
School Fuel	10,000.00	
Schoolhouse, Burns Addition	12,000.00	
Schoolhouse, English High	1,000.00	
Schoolhouse Incidentals	17,000.00	
Schoolhouse, Prescott, Heating and Ventilating	6,000.00	
Schoolhouse, Spring Hill Dis- trict	6,000.00	
<i>Amounts carried forward</i>	\$650,900.00	\$1,010,400.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 117

<i>Amounts brought forward</i>	\$650,900.00	\$1,010,400.00
Schoolhouse, Ward Two	34,000.00	
School Teachers' Salaries	190,000.00	
Sewers, Construction	25,000.00	
Sewers, Maintenance	7,000.00	
Sidewalks	15,000.00	
Street Lights	45,000.00	
Support of Poor	20,000.00	
Support of Poor, Almshouse	20,000.00	
Watering streets	3,500.00	
		\$1,010,400.00

ARMORY.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account		\$15,000.00
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DEBIT.

Schoolhouse, Ward Two, amount transferred	\$4,000.00	
Prospect Hill Park, amount transferred	356.21	
Schoolhouse, Spring Hill District, amount transferred	521.03	
Balance to credit of account, 1899	10,122.76	
		\$15,000.00

CASH.

CREDIT.

Engineering Department		\$ 9,040.21
County of Middlesex		44,894.56
Electrical Department		6,797.74
Electrical Department, Fire Alarm and Police Patrol Boxes		1,500.00
Fire Department		57,388.65
Fire Department, Fire Station Clarendon Hill		7,350.00
Funded Debt		172,000.00
<i>Amount carried forward</i>		\$298,971.16

<i>Amount brought forward</i>	\$298,971.16
Health Department	25,020.80
Highways	68,761.01
Highways, Paving Somerville avenue, Park street, westerly	209.68
Highways, Paving Webster avenue, Fitchburg Railroad to Cambridge line	7,033.70
Highways, Subway at Kent street	406.80
Highways, Subway at Sacramento street	512.34
Highways, Steam Road Roller	3,190.00
Indigent Soldiers and Sailors	538.00
Interest	45,968.27
Miscellaneous	17,208.61
Overlay and Abatement	175.47
Police	52,616.34
Police Station Incidentals	2,098.46
Printing and Stationery	7,575.60
Public Grounds	7,688.79
Public Grounds, Lincoln Park	4,987.87
Public Grounds, Prospect Hill Park	20,356.21
Public Library	10,143.83
Relief and Burial of Indigent Soldiers and Sailors	11,404.93
Salaries	32,158.00
School Contingent	19,685.59
School Contingent, Janitors' Salaries	17,372.58
School Fuel	9,765.58
Schoolhouse, English High	1,114.30
Schoolhouse Incidentals	16,955.60
Schoolhouse, Ward Two	9,848.53
Schoolhouse, Land in Ward Two	94.00
Schoolhouse, Prescott, Heating and Ventilating	3,516.23
Schoolhouse, Spring Hill District	40,041.60
School Teachers' Salaries	202,946.83
Sewers, Construction	105,162.59
Sewers, Maintenance	7,755.06
<i>Amount carried forward</i>	<u>\$1,051,284.36</u>

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 119

<i>Amount brought forward</i>	\$1,051,284.36
Sidewalks	30,197.01
State Aid	10,990.50
State of Massachusetts	27,075.00
State of Massachusetts, Metropolitan Sewer Assessment	31,566.31
State of Massachusetts, Metropolitan Water Assessment	14,250.19
State of Massachusetts, Non-resident Bank Stock	1,043.12
Street Lights	43,897.56
Sundry Persons	21,709.21
Support of Poor	28,522.21
Temporary Loans	950,000.00
Water Loan Interest	9,190.00
Water Maintenance	61,901.05
Water Services	3,141.27
Watering Streets	16,993.18
Water Works Extension	26,970.22
Balance to debit in account, 1899	70,376.04
	<hr/>
	\$2,399,107.23

DEBIT.

Balance from 1897	\$ 90,433.87
City of Boston, Water Rates	5,278.88
Engineering Department	61.50
Electrical Department	42.70
Fire Department	332.40
Funded Debt	176,000.00
Health Department	1,603.92
Highways	4,384.13
Highways, Paving Webster avenue, Fitchburg Railroad to Cambridge line	30.35
Interest	13,315.54
Miscellaneous	5,429.09
	<hr/>
<i>Amounts carried forward</i>	\$296,912.38
	\$2,399,107.23

<i>Amounts brought forward</i>	\$296,912.38	\$2,399,107.23
Overlay and Abatement	20.70	
Police	3,776.50	
Police Station Incidentals	600.00	
Public Grounds	1,317.76	
Public Library	2,790.24	
Real Estate Liens	715.62	
Reduction of Funded Debt	10,023.10	
Relief and Burial of Indigent Soldiers and Sailors	46.00	
Salaries	27,463.89	
School Contingent	294.25	
Schoolhouse, English High	114.30	
Schoolhouse Incidentals	313.31	
Schoolhouse, Ward Two	70.00	
Sewer Assessments	11,500.87	
Sewers, Construction	107.36	
Sewers, Maintenance	345.71	
Sidewalks	260.49	
Sidewalk Assessments	13,064.02	
State Aid	18.00	
State of Massachusetts, Burial of Indigent Soldiers and Sailors	245.00	
State of Massachusetts, Indi- gent Soldiers and Sailors	365.00	
State of Massachusetts, State Aid	9,261.50	
Support of Poor	6,552.98	
Temporary Loans	900,000.00	
Taxes	909,563.74	
Water Maintenance	3,280.18	
Water Services	8.98	
Water Service Assessments	3,516.24	
Watering Streets Assessments	757.08	
Watering Streets	345.88	
Water Works, Income	195,456.15	
		<u>\$2,399,107.23</u>

CITY OF BOSTON, WATER RATES.

CREDIT.

Cash, received of City of Boston, return on water rates	\$5,278.88
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DEBIT.

Water, Maintenance	<u>\$5,278.88</u>
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COUNTY OF MIDDLESEX.

CREDIT.

Taxes, amount assessed	\$44,894.56
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DEBIT.

Cash, paid County Tax	<u>\$44,894.56</u>
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ELECTRICAL DEPARTMENT.

CREDIT.

Appropriations, amount assessed	\$6,400.00
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Cash, received of Henry Cohen, old copper	\$40.00
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Cash, received of A. S. Jackson, jars	2.70
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	42.70
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	\$6,442.70
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Excess and Deficiency, balance to debit of account	355.04
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	\$6,797.74
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DEBIT.

Cash, paid laborers	\$3,330.25
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Edward Backus, salary as Su- perintendent of Electric Lines and Lights	1,200.00
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New England Gamewell Co., batteries, etc.	937.99
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Pettingell-Andrews Co., elec- trical supplies	357.45
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<i>Amounts carried forward</i>	\$5,825.69	\$6,797.74
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<i>Amounts brought forward</i>	\$5,825.69	\$6,797.74
Thomas W. Gleeson, electrical supplies	146.56	
Chandler & Farquhar, electrical supplies	68.22	
The Electric Protection Co., electrical supplies	1.55	
Charles L. Bly, wire	206.67	
Underhill Hardware Co., hardware	42.71	
Charles L. Underhill, repairs of wagon	12.60	
E. Teele & Co., repairs of wagon	12.85	
L. A. Wright, repairs of pung	8.00	
Weston Electrical Instrument Co., repairs	5.45	
Osman F. Hinks, carpentering	72.87	
John T. Sellon, glass	5.90	
W. E. Plumer & Co., hardware . . . . .	.10	
D. J. Bennett, harness work	22.30	
J. T. Macneill, harness work . . . . .	.50	
George W. Gale Lumber Co., Lumber	16.80	
I. H. Wiley & Co., paint	11.72	
Arthur C. Gordon, painting	21.50	
C. Caseau, signs	1.00	
M. E. Crouse, horseshoeing	2.80	
Edward O'Brien, horseshoeing	3.40	
George McDormand, horseshoeing	1.40	
C. B. Fagan, veterinary services	3.00	
W. H. Bullard, soap . . . . .	.35	
A. S. Jackson, lanterns	5.50	
Thomas Groom & Co., books	2.75	
Boston Electric Co., wire	33.68	
<i>Amounts carried forward</i>	\$6,535.87	\$6,797.74

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 123

<i>Amounts brought forward</i>	\$6,535.87	\$6,797.74
New England Telephone and Telegraph Co., wire	1.35	
New England Glass Mfg. Co., insulators	4.00	
Cornelius Callahan Co., globe	1.50	
Elijah Walker, cleats	4.04	
William McDonald, axle arms	11.00	
Boston Woven Hose & Rubber Co., snaps	2.00	
W. E. Decrow, oil	33.24	
Somerville Citizen Co., printing	8.05	
Somerville Electric Light Co. lighting	3.34	
George T. Day, expressing	31.75	
American Express Co., express- ing	5.60	
Fire Department, horse keeping	156.00	
	<hr/>	<u>\$6,797.74</u>

ENGINEERING DEPARTMENT.

CREDIT.

Appropriations, amount assessed	\$9,000.00
Cash, received of W. A. Sanborn, surveying	40.00
Miscellaneous account, numbering houses	21.50
	<hr/>
	\$9,061.50

DEBIT.

Cash, paid Ernest W. Bailey, City Engineer	\$2,200.00
Maintenance of team	150.00
Engineer's Assistants	6,062.02
Engineer's Assistants, car fares	174.15
Wadsworth, Howland & Co., paper, etc.	110.21
D. L. Makepeace, paper	24.80
	<hr/>
<i>Amounts carried forward</i>	\$8,721.18
	<hr/>
	\$9,061.50

<i>Amounts brought forward</i> .	\$8,721.18	\$9,061.50
Thomas Groom & Co., stationery	104.82	
M. L. Vinal, stationery . . .	1.00	
Sprague & Hathaway Co., maps	1.00	
Heliotype Printing Co., maps .	1.00	
H. C. Dimond & Co., type . . .	1.25	
F. W. Gilbert, rubber boots . .	6.75	
Whitney & Snow, hardware . . .	73.64	
Frost, Adams & Co., chalk . . .	2.07	
I. H. Brown Moulding Co., lumber	27.41	
Library Bureau, cards	2.55	
United Typewriter Supply Co., ribbon	3.50	
J. H. Brooks, cloth	3.60	
A. W. Mitchell Mfg Co.,		
stamps . . . . .	.40	
Watts Bros., rules	3.00	
Fred W. Farrar, magnifier . . . .	.50	
Charles H. Hutchinson, sur- veyor's rod	6.00	
A. J. Wilkinson & Co., plumb bobs, etc.	12.51	
Benjamin French & Co., album	2.93	
Buff & Berger, repairing tran- sit, etc.	27.00	
Josiah Cummings Sons Co., bag	6.50	
Rich, Reed & Atwood, tool bag	4.50	
J. T. Macneill, repairs of tool bag . . . . .	.95	
George O. W. Servis, use of transit, etc.	24.15	
George T. Day, expressing . . . .	.30	
<i>Amounts carried forward</i> .	\$9,038.51	\$9,061.50

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 125

<i>Amounts brought forward</i>	\$9,038.51	\$9,061.50
Gilman Ex. Co., expressing . . . . .	.60	
Glines & Co., expressing15	
American Express Co., ex- pressing50	
London's Express45	
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	\$9,040.21	
Excess and Deficiency, balance to credit of account	21.29	
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		\$9,061.50
		<hr/> <hr/>

ELECTRICAL DEPARTMENT, FIRE ALARM AND
POLICE PATROL BOXES.

CREDIT.

Appropriations, amount appropriated by borrow- ing on Funded Debt account		\$1,500.00
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DEBIT.

Cash, paid W. E. Decrow, fire alarm boxes, etc.	\$899.60	
Municipal Signal Co., police patrol boxes	550.00	
Boston Electric Co., wire	14.31	
W. E. Decrow, key jars	24.00	
Pettingell, Andrews & Co., wire	11.34	
American Express Co., ex- pressing75	
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		\$1,500.00
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EXCESS AND DEFICIENCY.

CREDIT.

Appropriations, amount appropriated		\$8,400.00
Engineering Department, credit balance of account		21.29
		<hr/>
<i>Amount carried forward</i>		\$8,421.29

<i>Amount brought forward</i>		\$ 8,421.29
Fire Department, Fire station No. 3 Improve- ment, credit balance of account		52.00
Highways, credit balance of account		356.06
Highways, Steam Road Roller, credit balance of account		310.00
Indigent Soldiers and Sailors, credit balance of account		131.00
Interest, credit balance of account		14,617.27
Miscellaneous, credit balance of account		2,220.48
Police Station Incidentals, credit balance of account		501.54
Printing and Stationery, credit balance of account		424.40
Public Grounds, credit balance of account		28.97
Public Grounds, Lincoln Park, credit balance of account		12.13
Relief and Burial of Indigent Soldiers and Sailors, credit balance of account		96.07
Salaries, credit balance of account		3,305.89
School Fuel, credit balance of account		234.42
Schoolhouse Incidentals, credit balance of account		357.71
Schoolhouse, Land in Ward Two, credit balance of account . . . . .		.75
Street Lights, credit balance of account		1,102.44
Support of Poor, credit balance of account		1,030.77
Water Maintenance, credit balance of account		41.96
Watering Streets, credit balance of account		214.38
Water Works Extension, credit balance of account		29.78
		<hr/>
		\$33,489.31

DEBIT.

Balances to debit of account, 1897	\$8,369.38	
Electrical Department, debit balance of account	355.04	
	<hr/>	
<i>Amounts carried forward</i>	\$8,724.42	\$33,489.31

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 127

<i>Amounts brought forward</i>	\$8,724.42	\$33,489.31
Fire Department, debit balance of account	1,056.25	
Health Department, debit balance of account	3,416.88	
Overlay and Abatement, debit balance of account	1,529.43	
Police, debit balance of account	339.84	
School Contingent, debit balance of account	1,391.34	
School Contingent, Janitors' Salaries, debit balance of account	372.58	
Sewers, Maintenance, debit balance of account	109.35	
	<hr/>	
	\$16,940.09	
Balance to credit of account, 1899	16,549.22	
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		\$33,489.31
		<hr/> <hr/>

FIRE DEPARTMENT.

CREDIT.

Appropriations, amount assessed		\$56,000.00
Cash, received of Electrical Department, horse keeping	\$156.00	
Henry S. Harris, horses	72.40	
James F. Hanley, horse	50.00	
Welch & Hall, horse	6.00	
W. A. Sanborn, wheels	20.00	
Charles S. Butters, manure	28.00	
	<hr/>	
		332.40
Excess and Deficiency, balance to debit of account		1,056.25
		<hr/>
<i>Amount carried forward</i>		\$57,388.65

Amount brought forward \$57,388.65

DEBIT.

Cash, paid James R. Hopkins, chief engineer	\$ 1,800.00
Nathaniel C. Barker, assistant engineer	600.00
Permanent firemen and sub- stitutes	27,596.70
Steamer Co. No. 1, callmen	1,299.50
Steamer Co. No. 2, callmen	1,262.00
Steamer Co. No. 4, callmen	1,362.00
Hose Co. No. 2, callmen	1,392.00
Hose Co. No. 3, callmen	1,362.50
Hose Co. No. 5, callmen	1,362.75
Hook and Ladder Co. No. 1, callmen	1,530.75
Hook and Ladder Co. No. 2, callmen	1,492.75
Charles H. Bridges, extra fire duty	2.00
John H. Cuddy, extra fire duty	2.00
Thomas F. Joy, extra fire duty	2.00
William H. Wheaton, extra fire duty	2.00
William H. Wheaton, painting	26.00
Charles B. Hill, extra fire duty	4.00
William J. Kennedy, extra fire duty	4.00
George W. Burgess, extra fire duty	2.00
James H. Ford, extra fire duty	2.00
Joseph Lord, extra fire duty	2.00
Martin S. Lacey, extra fire duty	2.00
James D. Perkins, Jr., extra fire duty	2.00
James H. Thompson, extra fire duty	2.00

Amounts carried forward \$41,114.95 \$57,388.65

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 129

<i>Amounts brought forward</i>	\$41,114.95	\$57,388.65
Powers & Co., grain	739.12	
Nathan Tufts & Sons, grain	476.05	
Fulton O'Brion, hay and grain	460.21	
G. W. Ladd & Co., hay and grain	163.41	
G. F. & S. E. Sturtevant, hay and grain	564.17	
Hosmer, Robinson & Co., hay and grain	274.47	
Proctor Bros., hay and grain	32.69	
Lord & Webster, hay and grain	219.40	
C. A. Slager, hay and straw	1.46	
West & Jenney, drugs	44.01	
H. D. Padelford, drugs	16.08	
Elias Lathrop, drugs	8.00	
H. S. Garcelon, drugs . . . . .	.60	
Sulpho Naphthol Co., sulpho naphthol	24.00	
S. A. Dinsmore, disinfectant	5.00	
Cochrane Chemical Co., vitriol	2.74	
Seward Dodge, horseshoeing	130.70	
J. B. Rufer, horseshoeing	265.11	
M. E. Crouse, horseshoeing	170.61	
A. Clement, horseshoeing	53.70	
I. B. Walker, horseshoeing	7.50	
J. H. Thompson, horseshoeing	18.15	
W. H. Richardson, horseshoeing	137.14	
R. F. Dimock, horseshoeing	8.47	
William Buckley, horseshoeing	55.39	
Edward O'Brien, horseshoeing	70.90	
J. B. Rielly, horseshoeing	3.00	
C. R. Simpson, veterinary services	93.25	
<i>Amounts carried forward</i>	\$45,160.28	\$57,388.65

<i>Amounts brought forward</i> .	\$45,160.28	\$57,388.65
John G. Lesure, horse medicine	10.00	
L. P. O'Donnell, medical attendance	2.00	
James R. Hopkins, freight	4.01	
Henry S. Harris & Co., horses	207.95	
Welch & Hall, horses	267.50	
L. W. Folsom, horse	150.00	
Eugene Mead, carriage hire	14.00	
E. Teel & Co., repairs of apparatus	182.30	
L. A. Wright, repairs of apparatus	70.20	
Charles L. Underhill, repairs of apparatus	24.40	
Frank W. Leavitt, repairs of apparatus	28.55	
Charles E. Berry, repairs of apparatus	210.21	
Charles River Iron Works, repairs of apparatus	10.84	
American Fire Engine Co., repairs of apparatus	59.95	
American Tube Works, repairs of apparatus	8.12	
Concord Axle Co., repairs of apparatus	60.00	
C. N. Perkins, repairs of apparatus	2.00	
Osgood & Hart, repairs of apparatus	1.95	
Crosby Steam Gage & Valve Co., repairs of apparatus	4.50	
Roberts Iron Works Co., repairs of apparatus	60.91	
<i>Amounts carried forward</i> .	<hr/> \$46,539.67	<hr/> \$57,388.65

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 131

<i>Amounts brought forward</i>	\$46,539.67	\$57,388.65
Winfield S. Knowles, repairs of apparatus . . . . .	.75	
Jacob Bean, repairs of ap- paratus	14.95	
Somerville Iron Foundry Co., repairs of apparatus	1.50	
Pettingell-Andrews Co., elec- trical supplies	47.88	
Thomas W. Gleeson, electrical supplies	4.62	
John E. Abbott, grate	25.00	
Leander Barber, brooms	9.00	
Somerville Brush & Mop Co., brushes	6.00	
W. G. Hallock, brushes	73.25	
Poor's Fountain Brush Co., brush	3.00	
National Brass Mfg. Co., coupling	3.25	
C. H. W. Moulton & Co., nozzles	22.00	
Bartlett Self Closing Nozzle Co., nozzles	3.00	
Samuel Eastman & Co., nozzle	50.00	
Boston Belting Co., hose	589.38	
Boston Woven Hose & Rub- ber Co., hose	145.40	
American Fire Hose Mfg. Co., hose	119.90	
Henry K. Barnes, hose	27.50	
Fabric Fire Hose Co., hose	65.00	
J. T. Macneill, harness work	31.35	
A. M. Prescott, harness work	77.75	
E. Spalding, harness work	26.71	
D. J. Bennett, harness work	27.85	
<i>Amounts carried forward</i>	<hr/> \$47,914.71	<hr/> \$57,388.65

<i>Amounts brought forward</i> .	\$47,914.71	\$57,388.65
Hill & Hill, harness work .	12.00	
H. A. Glazier, harness work .	3.00	
Underhill Hardware Co., hardware	40.46	
E. S. Sparrow & Co., hardware	39.25	
W. E. Plumer & Co., hardware	14.69	
Whitney & Snow, hardware .	12.71	
A. J. Wilkinson, hardware .	2.80	
W. E. Decrow, hardware . .	4.25	
Joseph Breck & Son, hardware	1.25	
Gibbs & Nelson, lighters .	10.00	
A. W. Mitchell Mfg. Co., badges	2.25	
Oak Hall Clothing Co., insignia	31.50	
Scovill Mfg. Co., buttons .	11.25	
A. S. Jackson, fire gongs, etc.	47.00	
Postal Improvement Co., box .	9.00	
A. J. Tuttle, thermometers .	1.00	
Andrew J. Morse & Son, hydrant gates	18.00	
B. F. Wild & Co., fuel	148.86	
Horatio Wellington & Co., fuel	630.82	
Wellington - Wild Coal Co., fuel	536.39	
Somerville Electric Light Co., lighting	566.08	
Cambridge Gaslight Co., gas .	233.80	
Charlestown Gas & Electric Co., gas	78.59	
Boston Electric Co., lamps, etc.	25.39	
<i>Amounts carried forward</i> .	<u>\$50,395.05</u>	<u>\$57,388.65</u>

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 133

<i>Amounts brought forward</i>	\$50,395.05	\$57,388.65
Lynn Electric Novelty Co., hand light	4.00	
Cambridge Ice Co., ice	50.52	
Winter Hill Ice Co., ice	11.40	
Boston Ice Co., ice	6.00	
City of Somerville, water for hydrants	4,172.00	
City of Somerville, water for houses	229.88	
City of Boston, water for houses	23.80	
Mrs. Walter Loveland, wash- ing	71.25	
Samuel H. Stevens, washing	45.49	
A. M. Spike, washing	35.86	
Mrs. E. F. Trefren, washing	44.48	
Mrs. Calvert, washing	121.58	
Irving C. Jackson, washing	27.50	
John S. Williams, blankets	68.10	
Hiram N. Stearns, sheets	30.00	
E. Schuebeler, bags	4.00	
National Roller Screen Co., screens	5.84	
Bowker, Torrey & Co., shelves	10.70	
Loeb Respirator Co., cartridges	2.50	
Everett B. Dyer, inspecting boiler	10.50	
W. A. Snow & Co., horse stalls, etc.	107.50	
F. D. Weld, lumber	53.90	
I. H. Brown Moulding Co., lumber	11.85	
Parker & Page, lumber	19.24	
Wilbur P. Rice, lumber	7.10	
F. C. Ayer, lumber	2.82	
<i>Amounts carried forward</i>	<u>\$55,572.86</u>	<u>\$57,388.65</u>

<i>Amounts brought forward</i>	\$55,572.86	\$57,388.65
G. D. B. Robinson Co., lumber	2.76	
Howe & Flint, plumbing	146.22	
George H. Maynard, plumbing	12.40	
W. H. Bullard, oil, etc.	25.60	
James Bartley, oil, etc.	10.55	
J. A. Durell, oil, etc.	30.57	
Massachusetts Oil Co., oil	6.20	
H. W. Burgess, oil	15.52	
A. F. Carpenter, oil	7.79	
Standard Chemical Co., soap	4.50	
Norfolk Mfg. Co., soap	5.00	
New England Soap Co., soap	3.75	
Ford & Denning, soap	7.00	
John H. Givan, soap	7.82	
Glaister Mfg. Co., polish	8.00	
Bunker Hill Electric Co., polish	2.40	
George E. Downs, salt	4.50	
Cornelius Callahan Co., gong and striker	86.00	
Amee & Co., standard food	6.50	
Frank P. Merrill, horse food	4.00	
Frank E. Fitts Mfg. & Supply Co., waste	28.12	
Harry F. Bucknam, lime	1.00	
George E. Wyman, repairing clocks	11.00	
S. D. Hicks & Sons, shoes	23.36	
Newton Ladder Co., ladder	7.50	
United Manufacturing Agency, ladder	7.50	
Combination Ladder Co. and Rhode Island Coupling Co., ladders, etc.	205.00	
Knight & Thomas, extin- guisher	22.00	
<i>Amounts carried forward</i>	\$56,275.42	\$57,388.65

<i>Amounts brought forward</i> .	\$56,275.42	\$57,388.65
Braman, Dow & Co., steam fitting	2.83	
T. F. McGann, brass balls	3.00	
F. E. Cushing, painting	6.65	
I. C. Ham, painting	1.00	
W. J. Logan, painting	26.63	
Fred Davis, whitening	35.00	
J. F. Burton, setting glass	2.50	
J. Q. Twombly, painting	9.66	
Daniel W. McDermott, setting glass	1.25	
C. H. Alley, carpentering	46.00	
Horace P. Ewell, carpentering	2.63	
H. S. Brackett, carpentering	35.68	
Belding Bros., carpentering	7.00	
R. E. Lord, carpentering	175.00	
A. M. Sibley, mason work	3.30	
Everett P. Miers, repairing roof	39.44	
Thomas McNee, repairs of building	52.25	
William McDonald, wooden rollers	39.55	
Archibald Wheel Co., wheels	185.00	
Patrick Bowdren, grading	35.00	
Thomas Groom & Co., stationery	19.85	
William A. Greenough & Co., directory	3.00	
Somerville Journal Co., printing	23.25	
Somerville Citizen Co., printing	9.25	
F. O. Goodwin, premium of insurance	3.00	
<i>Amounts carried forward</i> .	\$57,043.14	\$57,388.65

<i>Amounts brought forward</i>	\$57,043.14	\$57,388.65
Frank A. Teele, premium of insurance	5.00	
I. H. Wiley & Co., sponges	49.53	
New England Telephone & Telegraph Co., rentals and tolls	159.91	
George T. Day, expressing	28.55	
Page & Co., expressing . . . . .	.50	
American Express Co., expressing	6.90	
Jackson Caldwell & Co., furniture, etc.	66.75	
Glines & Co., expressing	2.25	
Gilman's Express Co., expressing	7.37	
E. R. Perham, expressing	1.65	
M. G. Staples, expressing	2.00	
Thorpe's Express, expressing	1.25	
E. E. Whitehouse, expressing	1.85	
George H. Towle, expressing	3.00	
Myers Putz Pomade Co., cream	9.00	
		<u>\$57,388.65</u>

FIRE DEPARTMENT, FIRE STATION CLARENDON HILL.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$15,000.00
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DEBIT.

Cash, paid Loring & Phipps, services as architects	\$ 350.00
E. T. Merrill, on account of contract	7,000.00
	<u>\$7,350.00</u>
Balance to credit of account, 1899	7,650.00
	<u>\$15,000.00</u>

FIRE DEPARTMENT, FIRE STATION NO. 3, IMPROVEMENT.

CREDIT.

Balance from 1897 \$52.00

DEBIT.

Excess and Deficiency, balance to credit of account \$52.00

FUNDED DEBT.

CREDIT.

Balance from 1897	\$1,548,000.00	
Cash, received from sale of City Loan Bonds Nos. 2,365 to 2,515	\$151,000.00	
Sewer Loan Bonds Nos. 199 to 223	25,000.00	
	<u>176,000.00</u>	
		<u>\$1,724,000.00</u>

DEBIT.

Cash, paid Sundry Persons :—		
City Loan Bonds Nos. 1,274 to 1,283	\$10,000.00	
City Loan Bonds Nos. 1,611 to 1,619	9,000.00	
City Loan Bonds Nos. 1,772 to 1,790	19,000.00	
City Loan Bonds Nos. 2,068 to 2,077	10,000.00	
City Loan Bonds Nos. 2,223 to 2,233	11,000.00	
City Loan Bonds Nos. 970 to 993	24,000.00	
City Loan Bonds Nos. 1,073 to 1,082	10,000.00	
City Loan Bonds Nos. 1,131 to 1,134	4,000.00	
	<u>\$97,000.00</u>	<u>\$1,724,000.00</u>
<i>Amounts carried forward</i>		

<i>Amounts brought forward</i>	\$97,000.00	\$1,724,000.00
City Loan Bonds Nos. 1,189 to 1,195	7,000.00	
City Loan Bonds Nos, 1,421 to 1,444	24,000.00	
City Loan Bonds Nos, 1,284 to 1,293	10,000.00	
Sewer Loan Bond No. 57	1,000.00	
Sewer Loan Bond No. 174	1,000.00	
Sewer Loan Bond No. 40	1,000.00	
Sewer Loan Bonds Nos. 82 to 85	4,000.00	
City Loan Paving Bonds Nos. 26 to 30	5,000.00	
Water Loan Bonds Nos. 152 to 166	15,000.00	
Water Loan Bond No. 287	1,000.00	
Water Loan Bond No. B449	1,000.00	
Water Loan Bonds Nos. 327 to 329	3,000.00	
Water Loan Bonds Nos. 407 to 408	2,000.00	
	<hr/>	
	\$172,000.00	
Balance to credit in account, 1899	1,552,000.00	
	<hr/>	
		<u>\$1,724,000.00</u>

HEALTH DEPARTMENT.

CREDIT.

Appropriations, amount assessed		\$20,000.00
Cash, received of Commonwealth of Massachusetts, expenses of contagious cases	\$514.43	
Town of Amesbury, expenses of contagious cases	421.49	
	<hr/>	
<i>Amounts carried forward</i>	\$935.92	\$20,000.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 139

<i>Amounts brought forward</i>	\$935.92	\$20,000.00
Hannibal S. Pond, offal	600.00	
Henry Gray, horse	25.00	
William P. Mitchell, permits to keep swine and collect grease	43.00	
	<hr/>	1,603.92
		<hr/>
		\$21,603.92
Excess and Deficiency, balance to debit of ac- count		3,416.88
		<hr/>
		\$25,020.80

DEBIT.

Cash, paid Caleb A. Page, salary as inspector	\$ 1,200.00	
Disbursements	92.85	
George W. S. Huse, salary as superintendent	900.00	
Laborers	18,342.00	
Proctor Bros., hay and grain	2,531.64	
Welch & Hall, horses	230.00	
Edward O'Brien, horseshoeing	216.78	
Ira L. Roberts, horseshoeing	96.89	
M. E. Crouse, horseshoeing	77.13	
Charles F. Scott, horseshoe- ing	45.80	
D. J. Bennett, harness work	241.90	
Hill & Hill, harness work	46.57	
Charles M. Berry, fumigating	59.25	
Melvin & Badger, regenerator, etc.	73.30	
New England Vaccine Co., virus	15.33	
John Fisher, offal tubs	10.80	
Milton H. Plummer, pepper- mint tubes	16.80	
	<hr/>	
<i>Amounts carried forward</i>	\$24,197.04	\$25,020.80

<i>Amounts brought forward</i> .	\$24,197.04	\$25,020.80
Breslin & Lohnes, repairs of carts	16.85	
A. S. Lohnes & Co., repairs of carts	41.00	
Hale & Mayhew Co., repairs of carts	8.00	
Charles L. Underhill, repairs of carts	141.43	
Julia Campbell, board	20.00	
Mrs. M. L. Scott, nurse	28.00	
Charles S. Robertson, premium of insurance	50.00	
Horatio Wellington & Co., fuel	11.00	
Wellington - Wild Coal Co., fuel	4.75	
W. H. Way, veterinary ser- vices	18.00	
Thomas Groom & Co., sta- tionery	66.50	
T. S. Buck, stamps	4.35	
Clark, Brown & Co., oil	1.20	
Massachusetts Oil Co., oil . . .	8.55	
Belding Bros., lumber	4.50	
W. P. Rice, lumber	5.12	
Somerville Citizen Co., print- ing	72.75	
Somerville Journal Co., print- ing	121.25	
J. A. Durell, hardware	48.28	
Howe & Flint, hardware . . . .	.35	
Whitney & Snow, hardware . . .	1.80	
Salshine Mfg. Co., polish	2.00	
T. F. Crimmings, teaming	20.00	
George W. Prichard, teaming . . .	6.00	
<i>Amounts carried forward</i> .	\$24,898.72	\$25,020.80

<i>Amounts brought forward</i>	\$24,898.72	\$25,020.80
T. Allen, teaming	10.00	
Charles Booth, teaming	20.00	
J. H. Thompson, carriage hire	5.00	
City of Boston, water	15.40	
City of Somerville, water	29.26	
Somerville Electric Light Co., lighting	27.52	
Marshall St. Pharmacy, expres- sing	1.65	
Frederic W. Cook, commission as justice of the peace	7.00	
H. A. Thomas, rent of P. O. box	4.00	
F. D. Weld, ladder	2.25	
	<hr/>	<hr/>
		\$25,020.80

HIGHWAYS.

CREDIT.

Appropriations, amount assessed		\$65,000.00
Cash, received of Metropolitan Water Board, repairs of Chauncey avenue, etc.	\$322.37	
Commonwealth of Massachu- setts, labor	147.00	
City of Waltham, taxes re- funded	237.91	
H. A. Hanscom, use of roller	15.00	
Thomas Ormond, rent	72.00	
Arthur Murley, rent	64.00	
William P. Mitchell, labor on driveway	4.25	
C. A. Lowell, labor on drive- way	6.75	
George Wildes, driveway	24.00	
Aaron H. Patten, labor on driveway	4.80	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$898.08	\$65,000.00

<i>Amounts brought forward</i>	\$898.08	\$65,000.00
L. A. Woodward, labor on driveway	8.50	
Israel P. Rice, labor on driveway	11.25	
Henry L. Granstein, labor on driveway	7.90	
B. F. Freeman, labor on driveway	4.25	
Charles W. Keeler, crushed stone	3.00	
W. A. Murtfeldt Co., crushed stone	35.84	
W. L. Glidden, sidewalk	62.84	
J. W. Russell, manure	92.50	
Charlestown Gas & Electric Co., paving	47.25	
Sidewalks account, teaming, materials, etc.	3,055.43	
Public Grounds account, crushed stone	45.00	
Schoolhouse, Spring Hill District account, edgestones	37.59	
Public grounds, Lincoln Park account, crushed stone	52.20	
Sewers, construction account, labor	6.50	
Watering Streets account, painting carts	12.00	
M. F. Underwood, labor	4.00	
	<hr/>	4,384.13
		<hr/>
		\$69,384.13
DEBIT.		
Cash, paid laborers' pay rolls	\$42,492.75	
John P. Prichard, salary as superintendent of streets	1,600.00	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$44,092.75	\$69,384.13

<i>Amounts brought forward</i>	\$44,092.75	\$69,384.13
Disbursements	6.38	
F. J. Stanley, board of superintendent's horse	209.63	
Eugene Mead, board of superintendent's horse, etc.	66.28	
N. E. Fitz & Co., Wharfage	147.20	
City of Medford, one-half cost of maintaining Middlesex avenue bridge	695.56	
Town of Wakefield, taxes	17.46	
Harrison Mitchell, round stone	1,137.70	
Dennis Shea, round stone	257.40	
S. & R. J. Lombard, paving blocks	2,135.97	
McIntosh & Parker, paving blocks	182.40	
Sweatt & Gould, flagging	13.66	
John Regan, stone	17.19	
George Carter, stone	2.82	
Mr. Bibieault, stone	5.64	
William Dacy, stone	27.36	
William H. Haynes, stone	89.07	
A. Kennedy, stone	160.47	
P. Leonard, stone	26.19	
Frank McDermott, stone	7.44	
Herbert Nichols, stone	22.86	
Joseph Onletts, stone	8.13	
J. O'Keefe, stone	35.07	
Manuel Petit, stone	7.86	
E. B. Parker, stone	21.84	
B. Pettie, stone	4.89	
J. M. Riley, stone	6.60	
John Siggins, stone	51.12	
Hugh Harney, stone	45.12	
A. Fitch, stone	54.87	
<i>Amounts carried forward</i>	<u>\$49,556.93</u>	<u>\$69,384.13</u>

<i>Amounts brought forward</i>	\$49,556.93	\$69,384.13
N. Grenier, stone	192.27	
T. B. Munroe, stone	60.00	
Frank A. Teele, stone	18.66	
Curley & Callahan, stone	170.05	
T. A. Callahan, stone	5.28	
T. R. Howard, stone	78.72	
J. Parento, stone	5.07	
W. McCarthy, stone	367.74	
D. F. Conologue, stone	138.75	
Charles T. Shean, stone	4.11	
Mary T. Shean, stone	66.42	
John Wilson, stone	9.51	
Frank Buttimer, stone	682.69	
Charles Booth, stone	74.29	
Dennis O'Keefe, stone	124.47	
H. A. Hanscom & Co., stone	14.46	
Timothy O'Keefe, stone	1,104.07	
Charles B. Russell, stone	7.66	
P. McDermott, stone	12.00	
John Gray, stone	30.15	
William H. Lennox, stone	777.99	
J. Connors, stone	795.06	
Colman Bros., crushed stone	2,354.31	
Portland Stoneware Co., brick	166.48	
W. A. Sanborn, brick	492.86	
Thomas Casey, brick	39.30	
Brassel & Doody, gravel	440.95	
Luke Kilroy, gravel	40.00	
R. E. Lord, gravel	126.60	
Edson Mfg. Co., brooms	17.00	
Highland Coal Co., cement	2.25	
W. G. Nash, cement	22.50	
Boston Paving Co., cinders	5.10	
Stone & Timlow, ashes	13.00	
Leonard & Ellis, oil	55.88	
<i>Amounts carried forward</i>	\$58,072.58	\$69,384.13

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 145

<i>Amounts brought forward</i>	\$58,072.58	\$69,384.13
Massachusetts Oil Co., oil	6.25	
W. P. Phillips & Co., lubricator	6.00	
D. Sutherland & Co., oil	50.25	
A. A. Sanborn, waste	10.75	
Farrell Foundry & Machine Co., bearings	8.00	
Roberts Iron Works Co., smoke pipe	27.81	
Holmes & Blanchard Co., repairing crusher	2.00	
S. C. Nightingale & Childs, repairing roller	3.00	
Walworth Mfg. Co., repairing roller	63.67	
American Tube Works, repairing roller	1.71	
William G. Oastler, repairing roller	13.00	
Miller & Shaw, repairing roller	9.51	
Boston Belting Co., belts	3.78	
Henry C. Hunt & Co., lacings	10.79	
Taylor Iron & Steel Co., crusher jaws	103.50	
Willis E. Allen, blacksmithing	25.00	
Hale & Mayhew Co., repairing carts	101.65	
Good Roads Machine Co., repairing carts	33.00	
C. L. Underhill, repairing wagon	2.00	
Armington & Sims Co., repairing crusher	25.14	
E. S. Sparrow & Co., hardware	66.28	
<i>Amounts carried forward</i>	\$58,645.67	\$69,384.13

<i>Amounts brought forward</i>	\$58,645.67	\$69,384.13
W. L. Snow, hardware	11.80	
Underhill Hardware Co., hardware	44.89	
Whitney & Snow, hardware	194.86	
W. B. Holmes, hardware	1.28	
Powers & Co., hay and grain	343.28	
Nathan Tufts & Sons, grain	1,450.75	
Fulton O'Brion, hay and grain	506.63	
Lord & Webster, hay and grain	1,870.69	
John S. Williams, harness work	183.97	
John Cutter, harness work	87.80	
D. McDonald, harness work	16.95	
T. J. Macneill, harness work	1.30	
P. Flynn, harness work	.50	
H. Wellington & Co., fuel	213.68	
Wellington - Wild Coal Co., fuel	526.13	
A. Clement, horseshoeing	109.21	
G. McDormand, horseshoeing	149.40	
Charles F. Scott, horseshoeing	89.56	
William Buckley, horseshoeing	111.10	
Seward Dodge, horseshoeing	17.76	
Edward O'Brien, horseshoeing	285.14	
John Runey, horseshoeing	6.15	
J. B. Reilly, horseshoeing	5.15	
Charles Parker & Co., iron	9.38	
Oliver Whyte & Co., iron	5.50	
Armstrong Bros., pipe	3.45	
Ingersoll-Sergeant Drill Co., weights	6.50	
Steel & Condict, saw plates	42.23	
Charles A. Claffin, packing	23.30	
T. Allen, concreting	83.40	
F. E. Merrill, drainer	25.00	
Medford Moulding & Machine Co., signs	.50	
<i>Amounts carried forward</i>	<u>\$65,072.91</u>	<u>\$69,384.13</u>

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 147

<i>Amounts brought forward</i>	\$65,072.91	\$69,384.13
C. S. Rawson, signs	5.00	
James Rawson, signs	119.51	
George W. Pennie, signs	39.84	
Rutan & Woods, carpentering	60.00	
A. M. Wood & Co., lumber	213.53	
F. C. Ayer, lumber	172.08	
T. E. Littlefield, lumber	1.61	
James F. Davlin, repairing fountains	30.03	
Donnelly & Co., plumbing	24.20	
Howe & Flint, plumbing	12.11	
George T. Tibbetts, iron pipe	4.68	
Braman, Dow & Co., pipe	21.30	
W. E. Plumer & Co., hard- ware	80.47	
Ames Plough Co., tools	33.29	
Boston Bolt Co., tools . . . . .	.70	
A. W. Isele & Sons, tools	21.63	
A. F. Carpenter, salt	1.85	
Charles A. Small & Co., vinegar	2.15	
George E. Ricker, refreshments	6.00	
H. Wood, filing saws	14.65	
Louis E. Merry, curbing	45.00	
W. A. Murtfeldt Co., curbing	9.10	
Thomas Groom & Co., station- ery	61.55	
Walter W. Field, repairing engine	2.41	
Ashton Valve Co., rods, etc.	10.80	
J. F. Downing, repairing fence	27.09	
C. A. Carlisle, Pope & Co., window, etc.	4.30	
New York Insulated Wire Co., wire	8.33	
<i>Amounts carried forward</i>	\$66,106.12	\$69,384.13

<i>Amounts brought forward</i>	\$66,106.12	\$69,384.13
C. S. Knowles, wire	9.55	
Pettingell-Andrews Co., wire	11.37	
Reed & McGaffigan, whiffletree	1.50	
M. T. Underwood, labor on wires	14.00	
Thomas Hollis & Co., sulphur	9.40	
Joan D. Garth, compensation for damages	500.00	
New England Telephone and Telegraph Co., rentals and tolls	48.52	
Somerville Electric Light Co., lighting	53.18	
City of Boston, water	15.40	
City of Somerville, water	174.70	
I. H. Wiley & Co., paint	47.47	
T. A. Sallaway, paint	33.53	
Somerville Citizen Co., advertising	47.00	
Somerville Journal Co., advertising	142.00	
Boston Herald Co., advertising	9.39	
Globe Newspaper Co., advertising	9.15	
Charles S. Robertson, premium of insurance	90.00	
Frank J. Hamblin, premium of insurance	50.00	
Hartford Steam Boiler Inspection and Insurance Co., premium of insurance	50.00	
Spencer & Co., stamps	2.00	
T. F. Crimmings, teaming	54.00	
Martin Gill & Son, teaming	216.75	
I. L. Smith, weighing stone	15.75	
<i>Amounts carried forward</i>	\$67,710.78	\$69,384.13

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 149

<i>Amounts brought forward</i>	\$67,710.78	\$69,384.13
J. W. Howard, plants	11.40	
W. H. Hitchings, veterinary services	58.00	
Herbert E. Bowman, drugs	4.41	
Charles H. Paine, drugs	5.00	
Victor Oil Co., horse	150.00	
Welch & Hall, horses	272.50	
Esau Cooper, horses	212.50	
F. D. Weld, flagstaff, etc.	24.30	
George O. W. Servis, photographs . . . . .	.75	
Gilman's Express Co., expressing	3.77	
Glines & Co., expressing . . . . .	.25	
George T. Day, expressing . . . . .	.80	
E. R. Perham, expressing	11.10	
American Express Co., expressing	2.60	
Water Maintenance account, labor	19.18	
Support of Poor account, labor	212.00	
Sidewalks account, edgestones	7.57	
Schoolhouse Incidentals account, sand	50.00	
Sewers, Construction account, recording releases	4.10	
	<hr/>	
	\$68,761.01	
Highways, Subway at Kent street account, amount transferred	99.65	
Sidewalks account, amount transferred	167.41	
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	\$69,028.07	
Excess and Deficiency, balance to credit of account	356.06	
	<hr/>	
		<u>\$69,384.13</u>

HIGHWAYS, PAVING SOMERVILLE AVENUE FROM
PARK STREET, WESTERLY.

CREDIT.

Balance from 1897	\$466.28
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DEBIT.

Cash, paid Soule, Dillingham & Co., final payment for paving Highways. Paving Webster Avenue, Fitchburg Railroad to Cambridge Line account, amount transferred	\$209.68 256.60	 <u>\$466.28</u>
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HIGHWAYS, PAVING WEBSTER AVENUE FROM FITCH-
BURG RAILROAD TO CAMBRIDGE LINE.

CREDIT.

Appropriations, amount appropriated by borrow- ing on Funded Debt account	\$7,000.00
Highways, Paving Somerville Avenue from Park Street, westerly, account, amount trans- ferred	256.60
Cash, received of Sidewalk account, edgestones	30.35
	<u>\$7,286.95</u>

DEBIT.

Cash, paid laborers	\$ 161.41
Patrick McGovern, on account of contract	3,607.38
S. & R. J. Lombard, paving blocks and edgestones	3,264.91
	<u>\$7,033.70</u>
Balance to credit of account, 1899	253.25
	<u>\$7,286.95</u>

HIGHWAYS, SUBWAY AT KENT STREET.

CREDIT.

Balance from 1897	\$257.99
Highways, Subway at Sacramento Street account, amount transferred	49.16
Highways account, amount transferred	99.65
	<hr/>
	\$406.80

DEBIT.

Cash, paid Holbrook, Cabot & Daley, balance of contract	\$406.80
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HIGHWAYS, SUBWAY AT SACRAMENTO STREET.

CREDIT.

Balance from 1897	\$561.50
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DEBIT.

Cash, paid Holbrook, Cabot & Daley, balance of contract	\$512.34
Highways, Subway at Kent Street account, amount transferred	49.16
	<hr/>
	\$561.50
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HIGHWAYS, STEAM ROAD ROLLER.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$3,500.00
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DEBIT.

Cash, paid Buffalo Pitts Co., steam road roller	\$3,190.00
Excess and Deficiency, balance to credit of account	310.00
	<hr/>
	\$3,500.00
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INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriations, amount assessed		\$400.00
State of Massachusetts, Indigent Soldiers and Sailors		269.00
		<hr/>
		\$669.00

DEBIT.

Cash, paid Sundry Persons as per pay rolls	\$538.00	
Excess and Deficiency, balance to credit of account	131.00	
	<hr/>	\$669.00
		<hr/> <hr/>

INTEREST.

CREDIT.

Appropriations, amount assessed		\$80,000.00
Cash, received of Sundry Persons on taxes and assessments	\$11,889.45	
Interest on deposit in banks	1,329.42	
Interest on tax titles released	96.67	
	<hr/>	13,315.54
		<hr/>
		\$93,315.54

DEBIT.

Cash, paid on Funded Debt:—		
\$1,069,000.00 one year at 4 per cent.	\$42,760.00	
\$121,000.00, six months at 4 per cent.	2,420.00	
\$175,000.00, one year at 4½ per cent.	7,875.00	
	<hr/>	\$53,055.00
Less coupons unpaid	20,530.00	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$32,525.00	\$93,315.54

<i>Amounts brought forward</i> .	\$32,525.00	\$93,315.54
Sundry Persons, unpaid coupons	20,530.00	
	<hr/>	
	\$53,055.00	
On Temporary Loans : —		
The Boston Five Cents Savings Bank, on note of \$150,000.00, six months at 3½ per cent., interest payable at maturity	2,625.00	
Estabrook & Co., on notes of \$200,000.00, two months, eighteen days, discounted at 4⅞ per cent.	2,112.50	
Estabrook & Co., on notes of \$200,000.00, four months, sixteen days, discounted at 3.05 per cent.	2,302.44	
Blake Bros. & Co., on note of \$50,000.00, four months, discounted at 2.63 per cent.	438.33	
Blake Bros. & Co., on note of \$100,000.00, six months, discounted at 2.93 per cent.	1,465.00	
The Boston Five Cents Savings Bank, on note of \$150,000.00, eight months at 4½ per cent., interest payable at maturity	4,500.00	
	<hr/>	
	\$13,443.27	
On Funded Debt	53,055.00	
On Temporary Loans	13,443.27	
Miscellaneous account, amount transferred	5,000.00	
Printing and Stationery account, amount transferred	1,500.00	
	<hr/>	
<i>Amounts carried forward</i> .	\$72,998.27	\$93,315.54

<i>Amounts brought forward</i>	\$72,998.27	\$93,315.54
Relief and Burial of Indigent Soldiers and Sailors account, amount transferred	2,000.00	
Support of Poor account, amount transferred	3,000.00	
Sewers, Maintenance account, amount transferred	300.00	
Public Grounds account, amount transferred	400.00	
Excess and Deficiency, balance to credit of account	14,617.27	
	<hr/>	<hr/> <hr/>
		\$93,315.54

MISCELLANEOUS.

CREDIT.

Appropriations, amount assessed		\$9,000.00
Interest account, amount transferred		5,000.00
		<hr/>
		\$14,000.00
Cash, received of Sundry Per- sons, costs on taxes and assessments	\$3,290.44	
On tax titles released	15.00	
John H. Dusseault, fees for sealing weights and meas- ures	303.93	
C. S. Philbrick, milk inspector	120.00	
F. C. Fuller, plumbers' li- censes	33.00	
Fulton O'Brion, public weigher	13.30	
Aristides Triolacis, license to peddle	25.00	
Nathan Ragovin, license to peddle	25.00	
Frank Immusa, license to peddle	25.00	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$3,850.67	\$14,000.00

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<i>Amounts brought forward</i>	\$3,850.67	\$14,000.00
Tony Cianciolo, license to peddle	25.00	
William Smith, error in pay roll	1.00	
C. E. Grew, old furniture	5.75	
Architectural Wood Working Co., costs on trustee's suit	1.82	
Printing and stationery account, maps	28.00	
Sundry Persons, druggists' licenses	22.00	
George I. Vincent, city clerk:—		
Recording mortgages, \$499.50		
Marriage certificates, 283.50		
Licensing dogs, 229.60		
Amusements, 118.00		
Junk licenses, 74.00		
Auctioneers' licenses, 40.00		
Intelligence offices, 18.00		
Billiards and pool, 44.00		
Fireworks, 81.00		
Slaughtering, 3.00		
Copies of records, 30.75		
Street musicians, 19.50		
Private detectives, 30.00		
Liquor licenses, 22.00		
Night lunch, 2.00		
	1,494.85	
		5,429.09
		\$19,429.09
DEBIT.		
Cash, paid John H. Dusseault, salary as sealer of weights and measures	\$426.30	
Disbursements	7.50	
	\$433.80	
<i>Amounts carried forward</i>	\$433.80	\$19,429.09

<i>Amounts brought forward</i> .	\$433.80	\$19,429.09
Mabel L. Dadmun, clerical services	206.67	
Florence M. Grow, clerical services	417.36	
Mabel Olmstead, clerical services	226.02	
Mary A. Sleeper, clerical services	419.36	
Alice M. Vincent, clerical services	342.69	
Luella M. Eaton, clerical services	24.00	
Winifred P. Briggs, clerical services	108.00	
Susan L. Briggs, clerical services	118.01	
Inez M. Felt, clerical services .	124.01	
Gertrude F. Gray, clerical services	136.01	
Lizzie L. Hill, clerical services	118.67	
Nannie M. Sargent, clerical services	138.67	
Sarah J. Lamont, clerical services	72.00	
Amy L. Hamlet, clerical services	64.01	
Arthur Atwood, clerical services	70.00	
Albert C. Adams, clerical services	70.00	
Freeman L. Lowell, clerical services	70.00	
Charles E. Davis, clerical services	13.62	
<i>Amounts carried forward</i> .	\$3,172.90	\$19,429.09

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 157

<i>Amounts brought forward</i> .	\$3,172.90	\$19,429.09
Frank E. Merrill, clerical services	54.00	
Charles G. Brett, clerical services	42.00	
Frederic W. Cook, clerical services	42.00	
Charles S. Robertson, clerical services	45.00	
William P. Mitchell, clerical services	13.00	
C. Ernest Griffin, clerical services	3.00	
George H. Griffin, watchman .	62.00	
Stephen J. Jackman, janitor of city hall annex	420.00	
E. A. Drown & Co., gas fixtures	12.95	
George H. Dodd, teaming .	102.00	
Smith & Anthony Co., steam fitting	41.60	
A. A. Sanborn, steam fitting .	12.55	
Somerville Journal Co., printing	7.35	
Somerville Citizen Co., printing	5.60	
Thomas W. Gleeson, batteries	6.25	
Pettingell-Andrews Co., electrical supplies	15.87	
M. F. Underwood, electrical supplies	1.50	
Greenwood & Co., brushes, etc.	8 96	
Jordan & Christie, brushes, etc.	19.00	
Jordan, Marsh & Co., cloth .	1.00	
<i>Amounts carried forward</i> .	<hr/> \$4,088.53	<hr/> \$19,429.09

<i>Amounts brought forward</i>	\$4,088.53	\$19,429.09
M. A. Mann, laundering	27.00	
Boston Nickel Plating Co., plating	10.50	
Commonwealth of Massachu- setts, 25 per cent. of liquor licenses	5.00	
Byron Boyd, abstracts	24.00	
E. O. Childs, recording	48.80	
Simon Connor, rent of hall	165.00	
Odd Fellows Building Asso- ciation, rent of hall	30.00	
Warren E. Locke, rent of hall	14.00	
Philip Eberle, rent of hall	25.00	
Derby Desk Co., repairs of ballot boxes	4.25	
Robert S. Robson, inspecting ballot boxes	23.00	
O. S. Merry, repairs of flag	5.75	
F. D. Weld, repairing flagstaff	10.25	
Ezra E. Reed, labor on flagstaff	13.00	
Boston Spar Co., flagstaff	88.00	
E. S. Sibley, repairs . . . . .	.35	
B. F. Wild & Co., fuel	361.15	
Wellington-Wild Coal Co., fuel	302.03	
City of Boston, water	27.86	
City of Somerville, water	60.98	
Cambridge Gaslight Co., gas	21.85	
Somerville Electric Light Co., lighting	842.19	
Cambridge Ice Co., ice	63.95	
Fresh Pond Ice Co., ice	72.30	
H. S. Garcelon, telephone	4.75	
New England Telephone and Telegraph Co., rentals and tolls	584.42	
<i>Amounts carried forward</i>	<u>\$6,923.91</u>	<u>\$19,429.09</u>

<i>Amounts brought forward</i> .	\$6,923.91	\$19,429.09
Jackson Caldwell & Co., furni- ture	6.87	
S. W. Allen & Co., furniture .	47.69	
Murdock Parlor Grate Co., sign	55.00	
Hatch & Farnum, boxes	18.00	
Office Specialty Mfg. Co., in- dex cabinet and cards	350.00	
Eugene Mead, carriage hire . .	60.00	
J. H. Thompson, carriage hire .	20.00	
Howard, Lowell & Son, car- riage hire	13.00	
L. H. Brown, carriage hire . . .	260.00	
A. H. Strahan, ringing bell . .	12.00	
Everett A. Maynard, ringing bell	12.00	
George W. Littlefield, ringing bell	9.00	
Charles A. Earle, ringing bell .	12.00	
J. H. Colbath, ringing bell . . .	12.00	
L. H. Knowles, ringing bell . . .	12.00	
George Stephens, Jr., ringing chimes	16.00	
Frank W. Kaan, disburse- ments	130.73	
Frank W. Kaan, office ex- penses	150.00	
Somerville Fourth of July As- sociation, contribution	100.00	
Willard C. Kinsley Post, 139, G. A. R., contribution for observance of Memorial Day . . .	400.00	
Co. M, 8th Regt., M. V. M., contribution for rifle practice . .	250.00	
Co. M, 8th Regt., M. V. M., reimbursements for services . . .	500.00	
<i>Amounts carried forward</i> . . .	\$9,370.20	\$19,429.09

<i>Amounts brought forward</i>	\$9,370.20	\$19,429.09
Co. M, 8th Regt., clothing	106.40	
Hosmer, Codding & Co., shoes for Co. M, 8th Regt., M. V. M.	150.00	
Hawley, Folsom & Ronimus, supplies for Co. M, Eighth Regiment, M. V. M.	346.19	
H. Wood, keys	4.85	
C. W. Coy, fireworks	11.50	
John H. Adcock, plumbing	50.76	
James F. Davlin, plumbing	33.22	
George W. Tibbetts, plumbing	1.15	
Howe & Flint, plumbing	14.88	
W. E. Plumer & Co., hard- ware	4.22	
Underhill Hardware Co., hard- ware	33.67	
Charles L. Underhill, black- smithing	21.95	
Whitney & Snow, hardware	97.12	
Alfred H. Hines, mason work	140.75	
F. J. Stanley, board of horses	545.75	
William Buckley, horseshoeing	42.38	
J. T. Macneill, harness work	11.85	
E. Spalding, harness work	4.00	
Hill & Hill, harness work	2.50	
Frank A. Fuller & Co., car- pentering	264.69	
Harris P. Tibbetts, carpenter- ing	209.81	
G. F. Matthews, carpentering	17.98	
L. C. Seavey, roofing	10.35	
J. Q. Twombly, painting	6.10	
G. M. Fortin, painting	3.00	
W. J. Fermoyle, painting	8.00	
<i>Amounts carried forward</i>	\$11,513.27	\$19,429.09

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 161

<i>Amounts brought forward</i> .	\$11,513.27	\$19,429.09
John Donnelly & Son, posting	75.80	
Stillman H. Libbey, services as auctioneer	20.10	
L. H. Snow, services	2.00	
Yale & Towne Mfg. Co., clean- ing and insuring time lock .	15.00	
Damon Safe & Iron Works Co., repairs of vault	6.75	
Smith Premier Typewriter Co., typewriter, etc.	106.60	
Miller & Shaw, repairs of coupon cutter	2.25	
Pemberton Cutler, check can- celling machine	20.00	
I. H. Brown & Co., lumber	1.55	
B. F. Freeman, photographs	7.00	
Standard Floor Oil Co., oil	3.50	
George H. Walker & Co., maps	28.00	
A. B. Haley & Co., stamps	1.50	
C. C. Hoffman & Co., stamps	10.02	
T. S. Buck, stamps	10.05	
James Ryan, stamps	7.90	
C. S. Robertson, stamps	1.20	
W. H. Bullard, supplies	4.40	
James Bartley, supplies	14.00	
William Scheubeler, towels	3.77	
W. S. Ward, supplies	1.90	
C. M. Blake, newspapers	6.00	
Fred W. Farrar, clockwork	5.00	
Sprague & Hathaway Co., frames	1.96	
George W. Manning, window guards, etc.	79.05	
Irving W. Wheeler & Co., awnings	103.00	
<i>Amounts carried forward</i> .	\$12,051.57	\$19,429.09

<i>Amounts brought forward</i>	\$12,051.57	\$19,429.09
American Mason Safety Tread Co., treads	18.40	
Higginson Mfg. Co., screens	114.25	
McKenney & Waterbury, lamps	26.20	
Engineering Department, numbering houses	21.50	
Middlesex County Truant School, board of Truants	1,133.85	
J. G. Albee, turkeys	44.80	
F. H. Burrows, turkeys	124.60	
F. L. Card, turkeys	44.90	
George E. Elliott, turkeys	36.48	
S. S. Higgins, turkeys	100.40	
L. W. Manning, turkeys	122.20	
R. M. Sturtevant, turkeys	102.70	
American Express Co., ex- pressing	13.59	
E. R. Perham, expressing	15.55	
Gilman's Express Co., express- ing	6.01	
Glines & Co., expressing . . . . .	.45	
Thorpe's Express, expressing	8.25	
George T. Day, expressing . . . . .	.30	
E. E. Whitehouse, expressing	1.05	
London's Express, expressing . . . . .	.15	
A. M. Prescott, teaming	31.40	
Albert C. Aldrich, return of births	7.50	
George G. Averill, return of births . . . . .	.50	
William H. Bailey, return of births	6.50	
L. N. Bump, return of births	1.25	
W. A. Bell, return of births	4.50	
<i>Amounts carried forward</i>	\$14,038.85	\$19,429.09

<i>Amounts brought forward</i> .	\$14,038.85	\$19,429.09
G. W. Bryant, return of births	5.25	
Harriet H. Cobb, return of births . . . . .	.50	
Charles S. Cahill, return of births	11.75	
Charles K. Cutter, return of births	2.25	
Henry F. Curtis, return of births	7.50	
John B. Curtis, return of births	11.25	
E. H. Coddling, return of births	2.75	
A. H. Carvill, return of births .	4.00	
William H. Clancy, return of births . . . . .	.50	
Mary B. Currier, return of births	1.50	
Augustus W. Dudley, return of births	1.25	
H. Ashton Downs, return of births	1.25	
T. M. Durell, return of births .	12.50	
A. B. Dearborn, return of births	8.00	
Roland A. Davis, return of births	1.25	
D. P. Danehy, return of births	3.25	
Douglas S. Flewelling, return of births	4.00	
P. F. Fitzsimmons, return of births . . . . .	.75	
T. F. Goulding, return of births . . . . .	.50	
<i>Amounts carried forward</i> .	\$14,118.85	\$19,429.09

<i>Amounts brought forward</i> .	\$14,118.85	\$19,429.09
George W. Greenleaf, return of births . . . . .	.75	
J. B. Gould, return of births .	.75	
A. Ward Follett, return of births	5.75	
John A. Gregg, return of births	12.00	
A. A. Gibson, return of births .	22.00	
A. W. Forbush, return of births	1.50	
P. J. Finnegan, return of births	3.75	
W. P. Hammond, return of births	2.25	
Henry C. Haché, return of births	11.75	
William J. Hatchett, return of births	4.25	
H. A. Hands, return of births .	5.25	
W. E. Harvey, return of births . . . . .	.50	
E. S. Kimpton, return of births	2.25	
Thomas J. Leahy, return of births	1.25	
Joseph S. Lockhart, return of births	1.00	
J. A. McDonald, return of births	1.00	
George T. Mahoney, return of births	2.50	
H. P. Makechnie, return of births	1.75	
A. E. Merrill, return of births .	1.75	
George A. Miles, return of births	12.00	
<i>Amounts carried forward</i> .	\$14,212.85	\$19,429.09

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 165

<i>Amounts brought forward</i> .	\$14,212.85	\$19,429.09
Charles A. Mongan, return of births	9.50	
A. B. McIntire, return of births	1.25	
A. Moll, return of births	2.50	
F. L. S. Newton, return of births	3.00	
Louis P. O'Donnell, return of births	15.50	
George S. Osgood, return of births	2.50	
R. L. Lane, return of births	4.75	
T. J. Partridge, return of births . . . . .	.50	
Eugenie M. Phillips, return of births	3.25	
Emma J. Peasley, return of births	1.75	
E. D. Pillsbury, return of births	1.00	
Betty Suber, return of births . . . . .	.75	
Frederick G. Smith, return of births	9.75	
E. A. Sanborn, return of births	1.50	
Anna B. Taylor, return of births	1.25	
W. H. Tyler, return of births	1.50	
H. S. Trueman, return of births	3.25	
Roswell Weatherbee, return of births	1.75	
J. A. Walker, return of births	1.75	
F. W. Taylor, return of births	2.75	
Charles J. Walsh, return of births	2.50	
Reuben Willis, return of births	3.00	
<i>Amounts carried forward</i> .	\$14,288.10	\$19,429.09

<i>Amounts brought forward</i>	\$14,288.10	\$19,429.09
George W. W. Whiting, return of births	8.75	
Emory L. White, return of births	1.25	
Mrs. J. K. Welsh, return of births	1.00	
N. S. Shannon, return of births	.25	
J. F. Kennard, census of births	52.95	
John M. Schroeder, census of births	78.50	
Elizabeth S. Webster, census of births	50.10	
Clara Z. Elliot, census of births	55.70	
W. A. Frink, reporting deaths	10.00	
W. A. Flaherty, reporting deaths	79.25	
Alfred E. Mann, reporting deaths	21.50	
John J. Crimmings, reporting deaths	12.50	
E. H. Marsh & Son, reporting deaths	23.00	
Francis M. Wilson, reporting deaths	19.50	
David Fudge & Son, reporting deaths	4.00	
C. F. Bryant, reporting deaths	11.00	
John E. Bryant, reporting deaths	3.75	
M. J. Murphy, reporting deaths	1.00	
J. W. Howard, floral tribute . .	35.00	
R. C. Burckes, labor	15.00	
D. G. Marston, labor	5.00	
J. L. Whittaker, labor	5.00	
C. A. Southwick, labor	3.50	
<i>Amounts carried forward</i>	\$14,785.60	\$19,429.09

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 167

<i>Amounts brought forward</i>	\$14,785.60	\$19,429.09
Howard P. Southwick, labor	17.50	
William Waller, labor	28.00	
W. H. Kelley, labor	8.50	
W. H. Laskey, labor	2.50	
N. L. Pennock, labor	6.00	
Alfred Shiner, labor	7.65	
B. F. Sheridan, labor	5.50	
A. B. Colesworthy, labor	5.00	
E. P. Cook, labor	7.00	
F. S. Dickinson, labor	5.00	
J. F. O'Brien, labor	9.00	
Edward T. Peterson, labor	5.00	
J. W. Rich, labor	7.50	
Charles Weston, labor	5.00	
Jennie L. Jones, car fares	20.80	
Charles L. Ellis, car fares	14.54	
Charles C. Farrington, refresh- ments	257.50	
Elm Café, refreshments	4.00	
Hotel Colson, refreshments	28.25	
Charles S. Eaton, refreshments	19.77	
Precinct Officers	1,612.00	
Charles S. Davis, compensa- tion for damages	100.00	
Albert Wilkinson, compensa- tion for damages	125.00	
Teele's band, music	22.00	
William M. Perkins, band	100.00	
	<hr/>	
Excess and Deficiency, balance to credit of account	\$17,208.61 2,220.48	
	<hr/>	\$19,429.09
		<hr/> <hr/>

OVERLAY AND ABATEMENT.

	CREDIT.	
Balance from 1897		\$2,539.04
		<hr/>
<i>Amount carried forward</i>		\$2,539.04

<i>Amount brought forward</i>		\$2,539.04
Taxes, amount added by the Assessors for convenience in apportionment, to be applied to abatement on taxes		1,823.64
Cash, taxes collected		20.70
		<hr/>
		\$4,383.38
Excess and Deficiency, balance to debit of account		1,529.43
		<hr/>
		\$5,912.81

DEBIT.

Taxes, amount of abatements	\$5,737.34	
Cash, paid Mary McDonough, tax of 1897 refunded	34.60	
Clara H. Dickinson, tax of 1898 refunded	35.80	
John F. McKenna, surrender and discharge of tax title	11.53	
Willard Welsh, surrender and discharge of tax title	50.54	
L. Roger Wentworth, surrender and discharge of tax title	43.00	
	<hr/>	\$5,912.81
		<hr/> <hr/>

OVERPLUS ON TAX SALES.

CREDIT.

Balance from 1897		\$157.13
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DEBIT.

Balance to 1899		\$157.13
		<hr/> <hr/>

POLICE.

CREDIT.

Appropriations, amount assessed		\$48,500.00
Cash, received of Herbert A. Chapin, Clerk of the Court	\$2,922.00	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$2,922.00	\$48,500.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 169

<i>Amounts brought forward</i>	\$2,922.00	\$48,500.00
J. R. Fairbairn, master of House of Correction, fines, etc.	854.50	
	<hr/>	3,776.50
Excess and Deficiency, balance to debit of account		339.84
		<hr/>
		\$52,616.34

DEBIT.

Cash, paid Melville C. Parkhurst, chief	\$1,900.00	
Robert R. Perry, captain	1,500.00	
Edward McGarr, sergeant	1,200.00	
Christopher C. Cavanagh, sergeant	1,200.00	
Dennis Kelley, sergeant	1,200.00	
Eugene A. Carter, sergeant	1,200.00	
John E. Fuller, patrolman	1,095.00	
George L. Smith, patrolman	1,095.00	
Edward M. Carter, patrolman	1,095.00	
George W. Bean, patrolman	1,095.00	
George A. Bodge, patrolman	1,095.00	
Phineas W. Skinner, patrolman	1,095.00	
John Hafford, patrolman	1,095.00	
Albion L. Staples, patrolman	1,095.00	
George H. Carleton, patrolman	1,095.00	
Judson W. Oliver, patrolman	1,095.00	
Francis A. Perkins, patrolman	1,095.00	
Charles S. Thrasher, patrol- man	1,095.00	
William H. Johnston, patrol- man	1,095.00	
Charles E. Woodman, patrol- man	1,095.00	
Arthur E. Keating, patrolman	1,095.00	
John G. Knight, patrolman	1,086.00	
	<hr/>	
<i>Amounts carried forward</i>	\$25,711.00	\$52,616.34

<i>Amounts brought forward</i>	\$25,711.00	\$52,616.34
Jacob W. Skinner, patrolman	1,095.00	
Theodore E. Heron, patrolman	1,095.00	
David A. Bolton, patrolman .	1,092.00	
Ulysses G. Skinner, patrolman	1,095.00	
James M. Harmon, patrolman	1,095.00	
Michael T. Kennedy, patrolman	1,095.00	
Charles W. Stevens, patrolman	1,071.00	
Ira S. Carleton, patrolman .	1,095.00	
Ezra A. Dodge, patrolman .	1,095.00	
Eugene H. Gammon, patrolman	510.00	
James J. Pollard, patrolman .	1,074.00	
Daniel G. Simons, patrolman	1,095.00	
Samuel Burns, patrolman .	1,095.00	
Frederic H. Googins, patrolman	1,095.00	
Jotham Chisholm, patrolman .	609.00	
William J. Davidson, patrolman	1,095.00	
Elmer E. Drew, patrolman .	1,065.00	
John A. Dadmun, patrolman .	1,032.50	
Eugene A. Woodsum, patrolman	934.50	
George L. Rice, patrolman .	951.75	
Myron S. Gott, reserve patrolman	865.00	
John A. Ray, reserve patrolman	912.50	
Herbert Hilton, reserve patrolman	912.50	
Charles W. Rieck, reserve patrolman	837.50	
Fred H. Young, special patrolman	6.00	
<i>Amounts carried forward</i> .	\$49,629.25	\$52,616.34

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 171

<i>Amounts brought forward</i> .	\$49,629.25	\$52,616.34
Peter J. Savage, special patrolman	16.00	
Peter Savage, special patrolman	8.00	
Joseph Russell, special patrolman	3.00	
Lewis R. Stewart, special patrolman	58.00	
Albert Gilman, special patrolman	8.00	
N. L. Pennock, special patrolman	8.00	
George H. Dearborn, special patrolman	8.00	
Frederick S. Dickinson, special patrolman	8.00	
Philip J. Fitzpatrick, special patrolman	8.00	
Edward F. Reed, special patrolman	8.00	
Bernard F. Sheridan, special patrolman	4.00	
Edward T. Peterson, special patrolman	8.00	
Roy C. Burckes, special patrolman	8.00	
L. M. Maynard, special patrolman	8.00	
Michael J. Davis, special patrolman	8.00	
Charles H. Weston, special patrolman	8.00	
Alfred M. Sibley, special patrolman	8.00	
A. B. Colesworthy, special patrolman	8.00	
<i>Amounts carried forward</i> .	<u>\$49,822.25</u>	<u>\$52,616.34</u>

<i>Amounts brought forward</i> .	\$49,822.25	\$52,616.34
Daniel H. Rinn, special patrolman	4.00	
Warren H. Smith, stableman	674.00	
William H. Kelley, stableman	23.00	
William I. Pennie, stableman	27.00	
Edward E. Ware, stableman .	470.75	
Irving E. Wilton, labor	63.50	
M. C. Parkhurst, lockup keeper	100.00	
Disbursements	16.00	
Eugene A. Carter, disbursements	96.50	
Lemuel H. Snow, disbursements	16.05	
George H. Carleton, disbursements	25.88	
Arthur E. Keating, disbursements	2.50	
Daniel G. Simons, disbursements	1.14	
Albion L. Staples, disbursements	7.72	
John A. Ray, disbursements .	.54	
Mary A. Staples, matron .	132.50	
Mrs. J. Herron, meals	36.00	
Raphael Masstrangialo, wreaths	11.75	
Scovill Mfg. Co., buttons .	13.50	
Wendell, Fay & Co., stripes .	3.38	
George C. Frost, laundering .	15.33	
Sampson, Murdock & Co., directory	2.00	
W. A. Greenough & Co., directories	6.00	
H. Wood, keys . . . . .	.50	
Ira L. Roberts, horseshoeing .	89.22	
<i>Amounts carried forward</i> .	\$51,661.01	\$52,616.34

<i>Amounts brought forward</i> .	\$51,661.01	\$52,616.34
E. Spalding, harness work .	18.85	
Charles Waugh & Sons, carriage work	182.10	
Henry Barrett, photographs .	22.00	
Allen Bros., stamps	1.20	
A. Fiske, crackers	19.73	
F. W. Farrar, repairing clocks	10.50	
Jackson Caldwell & Co., oil-cloth	1.38	
Fulton O'Brien, hay and grain	172.31	
Iver Johnson & Co., repairs .	10.15	
L. H. Brown, carriage hire .	18.00	
William Kirkland, carriage hire	5.00	
Somerville Electric Light Co., lamps	12.00	
Little, Brown & Co., books .	4.50	
Thomas Groom & Co., stationery	44.73	
M. L. Vinal, stationery	2.40	
Somerville Journal Co., printing	11.25	
Somerville Citizen Co., printing	2.25	
Fresh Pond Ice Co., ice	35.00	
C. M. Blake, newspapers	14.60	
New England Telephone and Telegraph Co., rentals and tolls	216.88	
Union Square Carriage Co., repairs	35.25	
James Bartley, oil . . . . .	.80	
Wellington - Wild Coal Co., fuel	34.56	
Whitney & Snow, hardware .	22.49	
<i>Amounts carried forward</i> .	\$52,558.94	\$52,616.34

<i>Amounts brought forward</i>	\$52,558.94	\$52,616.34
Howe & Flint, hardware	11.90	
W. E. Plumer & Co., hardware	3.50	
W. Schuebeler, dry goods	7.50	
R. M. Sturtevant, supplies	3.31	
Milton H. Plumer, drugs	2.30	
A. B. Dearborn, medical attendance	15.00	
L. P. O'Donnell, medical attendance	2.00	
W. H. Way, veterinary services	2.00	
C. H. Paine, horse medicine	2.00	
Thorpe's Express, expressing	3.55	
E. E. Whitehouse, expressing . . . . .	.60	
E. R. Perham, expressing . . . . .	.60	
Page & Co., expressing . . . . .	.50	
American Express Co., expressing	1.82	
Gilman's Express, expressing . . . . .	.67	
George T. Day, expressing . . . . .	.15	
	<hr/>	<hr/>
		\$52,616.34

POLICE STATION INCIDENTALS.

CREDIT.

Appropriations, amount assessed	\$2,000.00
Cash, received of County of Middlesex, rent of court room	600.00
	<hr/>
	\$2,600.00

DEBIT.

Cash, paid Henry S. Braden, janitor	\$850.00
H. Wellington & Co., fuel	224.40
	<hr/>
<i>Amounts carried forward</i>	\$1,074.40
	<hr/>
	\$2,600.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 175

<i>Amounts brought forward</i>	\$1,074.40	\$2,600.00
Wellington - Wild Coal Co., fuel	88.53	
Cambridge Gaslight Co., gas	546.04	
City of Boston, water	14.00	
City of Somerville, water	40.74	
Donnelly & Co., plumbing	18.12	
Howe & Flint, plumbing	43.42	
W. E. Plumer & Co., plumb- ing	22.23	
Whitney & Snow, hardware	1.50	
A. A. Sanborn, steamfitting	11.00	
Doe & McMillan, steamfitting	17.70	
Jackson Caldwell & Co., shades	3.00	
J. Q. Twombly, painting	35.27	
G. D. B. Robinson, painting	41.12	
W. F. Hyson, painting	15.00	
L. C. Seavey, roofing	9.37	
G. M. Fortin, glazing	10.23	
Albert T. Lyman, repairs of furniture	1.57	
Union Glass Co., Globes	7.00	
Albert W. Rice, labor	28.00	
R. M. Sturtevant, supplies	7.72	
F. D. Weld, ladder	5.00	
Sulpho Napthol Co., sulpho naphthol	20.00	
Columbian Insecticide Co., disinfectant	10.50	
G. P. Richardson, flag	27.00	
	<hr/>	
	\$2,098.46	
Excess and Deficiency, balance to credit of account	501.54	
	<hr/>	
		\$2,600.00
		<hr/> <hr/>

PRINTING AND STATIONERY.

CREDIT.

Appropriations, amount assessed	\$6,500.00
Interest account, amount transferred	1,500.00
	<hr/>
	\$8,000.00

DEBIT.

Cash, paid Somerville Journal Co., printing and advertising	\$4,010.35	
Somerville Citizen Co., printing and advertising	383.69	
Miscellaneous account, maps	28.00	
George H. Walker & Co., maps	38.25	
Helio-type Printing Co., maps	38.50	
Samuel Usher, printing	168.90	
Forbes Lithograph Mfg. Co., printing	183.00	
George Stevens & Co., printing	106.25	
Thomas Groom & Co., stationery, etc.	2,524.23	
W. A. Greenough & Co., directories	15.00	
J. Q. Adams & Co., dictionaries	15.00	
George I. Vincent, book	2.00	
F. S. Blanchard & Co., book	1.50	
A. E. Martell & Co., stationery . . . . .	.75	
Blackbird Pen Co., pens	10.00	
Smith Premier Typewriter Co., ribbons, etc.	19.33	
Cotton & Gould, crayons	6.00	
Greenough, Adams & Cushing, ink, etc.	6.00	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$7,556.75	\$8,000.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 177

<i>Amounts brought forward</i>	\$7,556.75	\$8,000.00
T. S. Buck, stamps	9.80	
Howe & Flint, pans	7.00	
Charles F. Libbey & Co., reports	1.60	
George T. Day, expressing45	
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	\$7,575.60	
Excess and Deficiency, balance to credit of account	424.40	
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		\$8,000.00
		<hr/> <hr/>

PROPERTY AND DEBT BALANCE.

CREDIT.

Balance from 1897		\$1,090,100.12
Public Property, property ac- quired in 1898		114,268.43
Reduction of Funded Debt, bonds paid		172,000.00
		<hr/>
		\$1,376,368.55

DEBIT.

Appropriations, amount borrowed on Funded Debt account	\$ 176,000.00	
Balance to credit of account, 1899	1,200,368.55	
	<hr/>	
		\$1,376,368.55
		<hr/> <hr/>

PUBLIC GROUNDS.

CREDIT.

Appropriations, amount assessed		\$6,000.00
Armory account, amount transferred		400.00
Cash, received of Joseph Young <i>et al.</i> , old lawn mowers	\$6.50	
Public Grounds, Lincoln Park account, labor, etc.	1,252.46	
	<hr/>	
<i>Amounts carried forward</i>	\$1,258.96	\$6,400.00

<i>Amounts brought forward</i>	\$1,258.96	\$6,400.00
West End Street Railway Co., care of parkway	50.00	
Sidewalks account, sods	8.80	
	<hr/>	1,317.76
		<hr/>
		\$7,717.76

DEBIT.

Cash, paid laborers	\$5,713.37	
J. W. Howard, plants and care	900.00	
Joseph Breck & Sons, seed, etc.	57.33	
Whitney & Snow, tools	66.64	
J. A. Durell, tools	25.50	
Charles L. Underhill, tools . . . . .	.50	
E. S. Sparrow & Co., tools	18.40	
M. Norton & Co., hose	5.74	
Ames Plow Co., lawn mow- ers	13.30	
Underhill Hardware Co., lawn mowers	7.25	
M. D. Jones & Co., settees	24.90	
Joseph Young, repairs of tools	10.50	
L. A. Wright, repairs of tools	8.40	
H. Wood, repairs of tools	1.00	
New York Nozzle Co., nozzle pipe	15.00	
J. C. McLean, stove	6.53	
George W. Manning, labor on flagstaff	30.00	
I. H. Brown Moulding Co., lumber	3.75	
F. C. Ayer, lumber	3.29	
G. F. Matthews, repairs	8.95	
George W. Prime, painting sign	6.50	
David W. Lewis, cement	15.00	
	<hr/>	
<i>Amounts carried forward</i>	\$6,941.85	\$7,717.76

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 179

<i>Amounts brought forward</i>	\$6,941.85	\$7,717.76
Waldo Bros., cement	11.75	
George D. Goodrich, drain pipe	24.20	
W. A. Sanborn, brick	7.00	
Jordan, Marsh & Co., flag	18.00	
Horatio Wellington & Co., fuel	3.00	
Wellington - Wild Coal Co., fuel	4.90	
B. F. Wild & Co., fuel	5.07	
William J. McCarthy, sand	11.90	
T. H. Bryne, filling	24.15	
C. E. Trumbull & Co., filling	187.41	
Massachusetts Broken Stone Co., broken stone	17.79	
T. Allen, concreting	33.54	
James Tevlin, use of team	62.88	
George W. Prichard, use of horse	123.00	
Leopold Morse & Co., suits	69.80	
George E. Ricker, refresh- ments	8.00	
J. H. Thompson, carriage hire	18.00	
Engineering News Publishing Co., advertising	11.40	
Page & Co., expressing . . . . .	.15	
City of Somerville, water	60.00	
Highways account, stone	45.00	
	<hr/>	
	\$7,688.79	
Excess and Deficiency, balance to credit of account	28.97	
	<hr/>	
		\$7,717.76
		<hr/> <hr/>

PUBLIC GROUNDS, LINCOLN PARK.

CREDIT.

Appropriations, amount appropriated by borrow- ing on Funded Debt account		\$5,000.00
		<hr/>
<i>Amount carried forward</i>		\$5,000.00

<i>Amount brought forward</i>		\$5,000.00
	DEBIT.	
Cash, paid laborers	\$1,465.06	
Seward Dodge, repairs of tools	2.38	
Ames Plow Co., repairs of tools . . . . .	.35	
J. H. Brooks, cloth . . . . .	.93	
Portland Stoneware Co., drain pipe	59.76	
George D. Goodrich, drain pipe	38.36	
James Tevlin, use of team	222.64	
William H. Wood & Co., lumber . . . . .	.50	
I. H. Brown Moulding Co., lumber	8.40	
Whitney & Snow, hardware	7.76	
C. E. Trumbull & Co., filling	893.86	
T. H. Bryne, filling	65.13	
Martin Gill, filling	127.40	
Timothy F. Crimmings, filling	443.10	
William J. McCarthy, filling	63.35	
Richard Falvey, filling	25.58	
M. A. Tenney, filling	23.88	
W. L. Clark & Co., filling	16.43	
City of Somerville, sewer assessment	218.34	
Public Grounds account, labor, etc.	1,252.46	
Highways account, grading	52.20	
	<u>\$4,987.87</u>	
Excess and Deficiency, balance to credit of account	12.13	
		<u><u>\$5,000.00</u></u>
PUBLIC GROUNDS, PROSPECT HILL PARK.		
	CREDIT.	
Appropriations, amount appropriated by borrowing on Funded Debt account		\$20,000.00
		<u>\$20,000.00</u>
<i>Amount carried forward</i>		\$20,000.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 181

<i>Amount brought forward</i>		\$20,000.00
Armory account, amount transferred		356.21
		<hr/>
		\$20,356.21

DEBIT.

Cash, paid Henry M. Thompson, land	\$20,000.00	
City of Somerville, taxes of 1898	356.21	
	<hr/>	\$20,356.21
		<hr/> <hr/>

PUBLIC LIBRARY.

CREDIT.

Appropriations, amount assessed		\$7,500.00
Cash, received of County Treas- urer, return on amount received of the city for dog licenses in 1897	\$2,268.86	
John S. Hayes, Librarian, fines Catalogues	43.61 3.20	
Assistant Librarian, fines Catalogues	80.45 4.00	
Sam Walter Foss, librarian Catalogues	313.35 61.01	
Books	12.76	
A. Storrs & Bement Co., error in bill	3.00	
	<hr/>	2,790.24
		<hr/>
		\$10,290.24

DEBIT.

Balance from 1897	\$ 139.01	
Cash, paid Little, Brown & Co., books	1,493.20	
Lee & Shepard, books	255.30	
	<hr/>	
<i>Amounts carried forward</i>	\$1,887.51	\$10,290.24

<i>Amounts brought forward</i> .	\$1,887.51	\$10,290.24
George E. Littlefield, books .	117.67	
D. Appleton & Co., books .	11.18	
Helman Taylor Co., books .	5.00	
American Co-operative News Society, books . . . .	.50	
American Book Co., books .	10.88	
Brookline Historical Pub. Co., book	1.00	
Bureau of American Republics, books	5.00	
Cedric Chivers, books . .	53.78	
Cyclopedia Pub. Co., books .	7.00	
Dodd, Mead & Co., books .	6.00	
Joel Munsell & Sons, books .	9.50	
D. C. Heath & Co., books .	8.28	
Poet Lore Co., books . . .	1.00	
Houghton, Mifflin & Co., books	53.49	
W. R. Bradford, books . . .	5.00	
Langdon Printing Co., books	1.50	
Publishers Weekly, books .	14.00	
Silver, Burdett & Co., books .	1.52	
Werner Book Co., books . .	4.04	
A. H. Wood, books	2.75	
Bradlee Whidden, books . .	15.40	
Massachusetts Total Absti- nence Society, books . . .	1.38	
Carrie A. Weston, books . .	2.00	
Flynn & Mahoney, books . .	92.11	
John Byrne & Co., books . .	.50	
H. A. Howe, books	3.50	
Estes & Lauriat, books . . .	37.64	
W. F. Adams & Co., books . .	5.50	
Ginn & Co., books	46.54	
Puritan Publishing Co., books	1.50	
W. B. Clark & Co., books . .	3.00	
<i>Amounts carried forward</i> .	\$2,415.67	\$10,290.24

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 183

<i>Amounts brought forward</i>	\$2,415.67	\$10,290.24
Harper & Bros., books	1.60	
Brentano's, books . . . . .	.50	
C. F. Libbie & Co., books	261.75	
J. C. Quinn, books	2.00	
Writer Publishing Co., books	2.00	
James A. Wilde & Co., books	52.34	
Charities Review, books	2.00	
New Hampshire College Monthly, books	1.00	
F. J. Blanchard & Co., books	1.50	
W. A. Greenough & Co., directory	3.00	
Sampson, Murdock & Co., directory	5.00	
Cleveland Public Library, index	5.00	
Broadway National Bank, draft	192.51	
P. B. Sanford, binding books	720.50	
F. J. Barnard & Co., binding books	26.75	
David Farquhar, binding books	20.25	
Library Bureau, supplies	22.50	
Olive S. Davis, utility pockets	10.00	
A. Storrs & Bement Co., cards	17.50	
Smith & Anthony Co., re- pairs	3.40	
W. F. Eccles, repairs	5.25	
G. F. Matthews, carpentering	90.45	
E. A. Parker, labor	9.00	
H. B. Southwick, labor	2.00	
W. H. Money, labor	12.15	
O. D. Baker & Co., repairs	19.75	
F. W. Allen & Co., furniture	33.00	
<i>Amounts carried forward</i>	\$3,938.37	\$10,290.24

<i>Amounts brought forward</i>	\$3,938.37	\$10,290.24
Jackson Caldwell & Co., furni- ture	11.90	
C. A. Southwick, labor	16.50	
Joel Goldthwaite & Co., rugs	62.39	
Standard Floor Oil Co., oil . . . . .	.60	
Hinckley & Woods, premium of insurance	33.75	
• Charles S. Robertson, premium of insurance	157.50	
J. Q. Twombly, painting	16.73	
Union Glass Co., globes	2.50	
Thorpe's Express, expressing . . . . .	.70	
London's Express, expressing . . . . .	.90	
Gilman Express Co., express- ing	61.15	
E. R. Perham, expressing	92.68	
Taylor's Express, expressing	43.70	
Glines' Express, expressing	2.40	
C. M. Blake, newspapers	6.00	
George T. Bailey, newspapers	4.92	
The Sun, newspapers	5.40	
Enoch Robinson, keys	5.25	
H. C. Dimond & Co., stamps . . . . .	.83	
Pettingell-Andrews Co., elec- tric supplies	3.55	
Thomas Groom & Co., sta- tionery	61.90	
J. E. Hall, stationery	4.20	
Somerville Journal Co., print- ing	271.55	
Somerville Citizen Co., print- ing	42.25	
Cambridge Gaslight Co., gas	30.10	
Somerville Electric Light Co., lighting	260.37	
<i>Amounts carried forward</i>	\$5,138.09	\$10,290.24

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 185

<i>Amounts brought forward</i> .	\$5,138.09	\$10,290.24
New England Telephone & Telegraph Co., rentals and tolls	58.52	
City of Somerville, water .	26.00	
Wellington - Wild Coal Co., fuel	135.58	
Everett D. Dyer, inspecting boiler	2.10	
G. W. Walker, maps	5.00	
B. F. Wild & Co., fuel	48.20	
D. Cutter, repairing clock	3.75	
George H. Dickerman, boxes	14.00	
Underhill Hardware Co., hardware	2.15	
Boston Plate & Window Glass Co., glass	11.00	
Charles A. West, disbursements	56.25	
S. Louise Chandler, agent	34.75	
Creighton & Clark, agents	94.61	
Susan A. Riker, agent	22.04	
Estate of John S. Hayes, disbursements	22.45	
John S. Hayes, librarian	624.99	
Sam Walter Foss, librarian	1,114.09	
Clara L. Bidwell, assistant librarian	166.67	
Adele Smith, assistant librarian	475.02	
F. Mabel Norcross, cataloguer	450.00	
Anna L. Stone, assistant	450.00	
Mary J. Warren, assistant	450.00	
Esther M. Mayhew, assistant	391.63	
Mabel Bunker, assistant	188.61	
Mary F. Woodman, assistant	177.90	
F. E. Kaula, attendant	79.09	
C. F. Wiggin, attendant	27.95	
<i>Amounts carried forward</i> .	\$10,270.44	\$10,290.24

<i>Amounts brought forward</i>	\$10,270.44	\$10,290.24
Arthur A. Hills, attendant	12.40	
	<hr/>	
	\$10,282.84	
Balance to credit of account, 1899	7.40	
	<hr/>	
		<u>\$10,290.24</u>

PUBLIC LIBRARY, ISAAC PITMAN FUND.

CREDIT.		
Balance from 1897		\$1,000.00
DEBIT.		
Balance to credit of account, 1899		<u>\$1,000.00</u>

PUBLIC PROPERTY.

CREDIT.		
Balance to debit in account, 1899		\$2,752,368.55
DEBIT.		
Property and Debt Balance, prop- erty acquired in 1898	\$ 114,268.43	
Balance from 1897	2,638,100.12	
	<hr/>	
		<u>\$2,752,368.55</u>

REAL ESTATE LIENS.

CREDIT.		
Cash, received of Sundry Persons, tax titles released		\$ 715.62
Balance to 1899		1,664.60
		<hr/>
		\$2,380.22
DEBIT.		
Balance from 1897		<u>\$2,380.22</u>

REDUCTION OF FUNDED DEBT.

CREDIT.		
Balance from 1897		\$ 6,823.36
Appropriations, amount assessed		155,200.00
		<hr/>
<i>Amounts carried forward</i>		\$162,023.36

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 187

<i>Amount brought forward</i>		\$162,023.36
Water Works Income		22,000.00
Cash, received of Thomas P. Beal, Receiver Maverick National Bank	\$ 760.50	
Boston Five Cents Savings Bank, premium on bonds	9,262.60	
	<hr/>	10,023.10
		<hr/>
		\$194,046.46

DEBIT.

Property and Debt Balance, amount of reduction of Funded Debt, 1898	\$172,000.00	
School Teachers' Salaries account, amount transferred	12,946.83	
Balance to credit in account, 1899	9,099.63	
	<hr/>	\$194,046.46
		<hr/>

RELIEF AND BURIAL OF INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriations, amount assessed		\$9,000.00
Interest account, amount transferred		2,000.00
State of Massachusetts, burials		455.00
Cash, Sundry Persons, money not called for		46.00
		<hr/>
		\$11,501.00

DEBIT.

Cash, paid monthly pay rolls	\$10,482.00	
Danvers Lunatic Hospital, board, etc.	169.47	
Worcester Lunatic Hospital, board, etc.	169.46	
Somerville Hospital, board, etc.	129.00	
	<hr/>	
<i>Amounts carried forward</i>	\$10,949.93	\$11,501.00

<i>Amounts brought forward</i>	\$10,949.93	\$11,501.00
Alfred E. Mann, services as undertaker	35.00	
Francis M. Wilson, services as undertaker	70.00	
E. H. Marsh & Son, services as undertaker	70.00	
C. H. Lockhart, services as undertaker	35.00	
William A. Flaherty, services as undertaker	105.00	
George F. McKenna, services as undertaker	35.00	
M. J. Shea, services as undertaker	35.00	
John Bryant, services as undertaker	70.00	
	<hr/>	
	\$11,404.93	
Excess and Deficiency, balance to credit	96.07	
	<hr/>	
		\$11,501.00
		<hr/> <hr/>

SALARIES.

CREDIT.

Appropriations, amount assessed	\$ 8,000.00
Cash, received of Commonwealth of Massachusetts, national bank and corporation taxes	27,463.89
	<hr/>
	\$35,463.89

DEBIT.

Cash, paid Albion A. Perry, mayor	\$2,500.00
George I. Vincent, city clerk	2,400.00
John F. Cole, city treasurer and collector of taxes	3,200.00
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<i>Amounts carried forward</i>	\$8,100.00
	<hr/>
	\$35,463.89

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 189

<i>Amounts brought forward</i> .	\$8,100.00	\$35,463.89
Frank W. Kaan, city solicitor	1,500.00	
Charles S. Robertson, city auditor	500.00	
Charles S. Robertson, clerk of common council	300.00	
Jairus Mann, city messenger .	1,500.00	
William P. Mitchell, clerk of committees	1,800.00	
Albert B. Fales, clerk of assessors	1,600.00	
Beulah M. Peirce, assistant to treasurer	800.00	
Alice T. Sleeper, assistant to treasurer	700.00	
Louise B. McLaughlin, assistant to treasurer	500.00	
Clara B. Snow, assistant to city clerk	700.00	
Edith A. Woodman, assistant to city clerk	500.00	
Gertrude G. Kendall, assistant to clerk of assessors	700.00	
Jennie L. Jones, assistant to clerk of assessors	500.00	
Frederic W. Cook, assistant to clerk of committees	1,000.00	
Lucia A. Manning, assistant to clerk of committees	550.00	
Frederick C. Fuller, inspector of public buildings	1,900.00	
Duncan C. Greene, inspector of plumbing	1,200.00	
Charles L. Ellis, deputy collector of taxes	1,200.00	
Charles M. Berry, inspector of animals and provisions	400.00	
<i>Amounts carried forward</i> .	<u>\$25,950.00</u>	<u>\$35,463.89</u>

<i>Amounts brought forward</i>	\$25,950.00	\$35,463.89
Charles S. Philbrick, inspector of milk and vinegar	400.00	
Charles A. Southwick, janitor of City Hall and Public Library	850.00	
Benjamin F. Thompson, assessor	900.00	
Nathan H. Reed, assessor	800.00	
Samuel T. Richards, assessor	38.71	
Harry A. True, assessor	761.29	
Fred B. Clapp, assistant assessor	250.00	
Charles C. Farrington, assist- ant assessor	250.00	
Edgar T. Mayhew, assistant assessor	250.00	
Frank A. Teele, assistant assessor	250.00	
Cromwell G. Rowell, registrar of voters	200.00	
Charles E. Parks, registrar of voters	200.00	
Charles P. Lincoln, registrar of voters	200.00	
George I. Vincent, registrar of voters	200.00	
George H. Griffin, night jan- itor	658.00	
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	\$32,158.00	
Excess and Deficiency, balance to credit of account	3,305.89	
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		\$35,463.89
		<hr/> <hr/>
SCHOOL CONTINGENT.		
	CREDIT.	
Appropriations, amount assessed		\$18,000.00
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<i>Amount carried forward</i>		\$18,000.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 191

<i>Amount brought forward</i>		\$18,000.00
Cash, received of G. A. Southworth, injury to books, etc.	\$101.25	
M. E. Bangs, injury to property	2.00	
Andrew Waitt, injury to property	2.00	
Osman Gay, injury to property	2.00	
Robert Scott, injury to property	2.00	
Harriet Moore, tuition of non-resident pupil	14.00	
P. L. Curtin, tuition of non-resident pupil	10.00	
Clifton Williams, tuition of non-resident pupil	40.00	
Benjamin Lamont, tuition of non-resident pupil	15.00	
Horace E. Cousins, tuition of non-resident pupil	60.00	
George H. Derby, tuition of non-resident pupil	6.00	
Franklin Moore, tuition of non-resident pupil	20.00	
David Mason, tuition of non-resident pupil	20.00	
	<hr/>	294.25
Excess and Deficiency, balance to debit of account		1,391.34
		<hr/>
		\$19,685.59

DEBIT.

Cash, paid Gordon A. Southworth, salary as superintendent of schools	\$3,000.00	
Disbursements	224.56	
E. L. Hannay, clerk in Superintendent's office	650.00	
	<hr/>	
<i>Amounts carried forward</i>	\$3,874.56	\$19,685.59

<i>Amounts brought forward</i> .	\$3,874.56	\$19,685.59
Lemuel H. Snow, truant officer	1,000.00	
Services taking school census	100.00	
Disbursements	21.10	
Jairus Mann, truant officer	50.00	
Ginn & Co., books	1,489.78	
American Book Co., books	819.42	
Leach, Shewell & Co., books	785.07	
D. C. Heath & Co., books	236.31	
Edward E. Babb & Co., books	143.91	
Allyn & Bacon, books	241.01	
Silver, Burdett & Co., books	728.58	
University Pub. Co., books	141.36	
DeWolfe, Fiske & Co., books	68.01	
Benjamin H. Sanborn & Co., books	20.99	
Harper Bros., books	51.00	
Mary A. Chandler, books	30.00	
Lee & Shepard, books	28.80	
F. S. Blanchard & Co., books	1.50	
Houghton, Mifflin & Co., books	202.07	
Eldridge & Bro., books	11.00	
Lothrop Pub. Co., books	91.55	
T. H. Castor & Co., books	35.97	
Charles Scribner's Sons, books	27.90	
New England Pub. Co., books	17.50	
W. A. Greenough & Co., directory	3.00	
Thorp & Martin Mfg. Co., blank books	4.65	
F. J. Barnard & Co., binding books	77.40	
David Farquhar, binding books	571.97	
Harvard University, examination papers	4.35	
<i>Amounts carried forward</i> .	\$10,878.76	\$19,685.59

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 193

<i>Amounts brought forward</i>	\$10,878.76	\$19,685.59
A. J. Wilkinson, supplies	68.56	
Chandler & Barber, supplies	7.48	
George H. Furbish, supplies	10.00	
E. W. Tuttle, supplies	7.69	
Mary T. Carnick, supplies	10.00	
Pulsifer, Cook & Co., supplies	67.40	
Prang Educational Co., supplies	5.96	
Frost & Adams Co., supplies	10.15	
Wadsworth, Howland & Co., supplies	304.49	
John M. Woods & Co., supplies	123.78	
L. E. Knott Apparatus Co., laboratory supplies	315.48	
Ziegler Electrical Co., laboratory supplies	37.70	
Thomas Hollis & Co., laboratory supplies	13.83	
Dame, Stoddard & Kendall, supplies	37.53	
Mitchell Mfg. Co., supplies . . . . .	.35	
Ellis Publishing Co., supplies	69.85	
E. T. Curtis, supplies	69.07	
Gilman Square Fish Market, supplies	5.66	
W. A. Chadwick, supplies	2.50	
Chandler Adjustable Chair and Desk Co., supplies	1.20	
Boston School Supply Co., supplies	103.97	
Greenough, Adams & Cushing, supplies	2,587.54	
George F. King & Co., supplies	1,714.42	
<i>Amounts carried forward</i>	<u>\$16,453.37</u>	<u>\$19,685.59</u>

<i>Amounts brought forward</i>	\$16,453.37	\$19,685.59
M. L. King, supplies	7.75	
The Morse Co., supplies	5.33	
George S. Perry & Co., ink- wells	31.25	
J. L. Hammett & Co., supplies	410.51	
R. H. White & Co., supplies	6.80	
George H. Dickerman, supplies	6.50	
Suffolk Ink Co., ink	1.20	
Clark Ink Co., ink	4.80	
Clark Mfg. Co., ink	43.60	
Eagle Pencil Co., pencils	8.75	
F. S. Webster & Co., type- writer supplies	8.25	
Charles B. Palmer, typewriter supplies	21.00	
Wyckoff, Seamans & Benedict, typewriter, etc.	141.17	
United Typewriter & Supply Co., typewriter supplies	7.00	
Smith Premier Typewriter Co., typewriters and repairs	159.85	
Ivers & Pond, pianos	500.00	
C. A. Watrous, book covers	115.00	
Holden Patent Book Cover Co., covers	3.14	
John C. Haynes & Co., pitch pipes	12.60	
Somerville Journal Co., print- ing	308.28	
Somerville Citizen Co., print- ing	238.82	
American Printing and En- graving Co., printing	63.90	
New England Telephone & Telegraph Co., rentals and tolls	125.73	
<i>Amounts carried forward</i>	\$18,684.60	\$19,685.59

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 195

<i>Amounts brought forward</i> .	\$18,684.60	\$19,685.59
E. S. Daniels, tuning pianos .	9.00	
B. F. Freeman, photographs .	4.00	
A. W. Mitchell Mfg. Co., stamps	3.10	
Blodgett Bros. & Co., repairs of clocks	15.30	
Wakefield Rattan Co., furni- ture	18.95	
E. F. Andrews & Co., supplies	3.25	
G. F. Greenleaf & Co., supplies	5.00	
Dennison Mfg. Co., supplies .	7.90	
William Ware & Co., supplies	103.25	
W. N. Goddard, supplies .	22.00	
George B. Fraser, supplies .	23.92	
S. A. Johnson, disbursements	7.33	
Charles E. Brainard, disburse- ments	10.39	
Harlan P. Knight, disburse- ments	26.28	
George M. Wadsworth, dis- bursements	7.03	
Boston Bank Note Co., diplo- mas	112.25	
C. W. Clement, filling in diplo- mas	77.70	
G. R. Fiske & Co., ribbon .	50.60	
First M. E. Church, use of edi- fice	125.00	
Robert S. McArthur, address .	50.00	
Thomas Van Ness, address .	25.00	
L. E. Brown, refreshments .	73.16	
E. E. Whitehouse, expressing	94.30	
E. R. Perham, expressing .	1.10	
Gilman Express Co., expressing	1.55	
Glines & Co., expressing .	17.45	
<i>Amounts carried forward</i> .	\$19,579.41	\$19,685.59

<i>Amounts brought forward</i>	\$19,579.41	\$19,685.59
J. H. Grundy, expressing	17.25	
R. A. R. Benson, expressing	28.60	
London's Express Co., express- ing	60.33	
	<hr/>	<hr/>
		\$19,685.59

SCHOOL CONTINGENT, JANITORS' SALARIES.

CREDIT.

Appropriations, amount assessed	\$17,000.00
Excess and Deficiency, balance to debit of account	372.58
	<hr/>
	\$17,372.58

DEBIT.

Cash, paid Janitors' salaries as per pay rolls	\$17,372.58
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SCHOOL FUEL.

CREDIT.

Appropriations, amount assessed	\$10,000.00
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DEBIT.

Cash, paid Horatio Wellington & Co., fuel	\$1,391.21
Wellington - Wild Coal Co., fuel	6,110.80
B. F. Wild & Co., fuel	2,254.82
Somerville Citizen Co., adver- tising	4.50
Somerville Journal Co., adver- tising	4.25
	<hr/>
	\$9,765.58
Excess and Deficiency, balance to credit of account	234.42
	<hr/>
	\$10,000.00

SCHOOLHOUSE, BURNS ADDITION.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$12,000.00
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DEBIT.

Balance to 1899	\$12,000.00
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SCHOOLHOUSE, ENGLISH HIGH.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$1,000.00
Cash, received of Schoolhouse Incidentals account, gas fixtures	114.30
	<hr style="border-top: 1px solid #000;"/>
	\$1,114.30

DEBIT.

Cash, paid Hatch & Farnum, furniture	\$236.00	
Whitman & Couch, telephone	309.00	
E. A. Drowne & Co., fixtures	25.00	
G. F. Matthews, carpentering	379.30	
A. A. Sanborn, heating apparatus	165.00	
	<hr style="border-top: 1px solid #000;"/>	
		\$1,114.30
		<hr style="border-top: 3px double #000;"/>

SCHOOLHOUSE INCIDENTALS.

CREDIT.

Appropriations, amount assessed		\$17,000.00
Cash, received of Northern Assurance Co., insurance	\$54.89	
Phoenix Assurance Co., insurance	48.27	
Provident Washington Insurance Co., insurance	32.93	
	<hr style="border-top: 1px solid #000;"/>	
<i>Amounts carried forward</i>	\$136.09	\$17,000.00

<i>Amounts brought forward</i> .	\$136.09	\$17,000.00
Agricultural Insurance Co., insurance	43.23	
Norwich Union Fire Insurance Co., insurance	43.24	
Ætna Insurance Co., insurance	27.44	
Mrs. M. E. Bangs, damage to furniture	1.00	
Andrew Waitt, damage to furniture	1.00	
Osmand Gay, damage to furniture	1.00	
Robert Scott, damage to furniture	1.00	
A. A. Sanborn, pipe and fittings, not used	9.31	
Highways account, sand	50 00	
		313.31
		\$17,313.31
DEBIT.		
Cash, paid Walter A. Berry, carpentering	\$1,360.85	
Frank A. Fuller & Co., carpentering	699.97	
Warren Hallett, carpentering	782.17	
George F. Matthews, carpentering	456.15	
T. F. Farrington, carpentering	316.27	
James Simpson, carpentering	97.50	
A. M. Waining, carpentering	132.50	
G. D. B. Robinson, carpentering	55.40	
James H. Chase, carpentering	39.37	
Harris P. Tibbetts, carpentering	22.95	
<i>Amounts carried forward</i> .	\$3,963.13	\$17,313.31

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 199

<i>Amounts brought forward</i> .	\$3,963.13	\$17,313.31
Howe & Flint, repairing heating apparatus	682.80	
A. A. Sanborn, repairing heating apparatus	808.83	
J. W. Johnson, repairing heating apparatus	108.00	
Johnson Electric Service Co., repairing heating apparatus	41.06	
Charles E. Berry, repairing heating apparatus	3.10	
Braman, Dow & Co., repairing heating apparatus	35.00	
B. F. Sturtevant Co., repairs of engine	18.60	
Walworth Mfg. Co., flue cleaners	2.40	
James Deacon, painting	4.00	
J. Q. Twombly, painting	103.68	
M. J. Goodwin, painting	547.35	
G. A. Walker, painting	677.17	
Arthur C. Gordon, painting	2.50	
E. B. Jones, setting glass	91.40	
R. C. Burckes, setting glass	16.62	
James Rawson, setting glass	6.72	
J. F. Berton, setting glass	1.75	
W. J. Fermoyle, setting glass	6.50	
Armstrong Bros., plumbing	11.84	
James F. Davlin, plumbing	4.11	
J. A. Durell, plumbing	212.60	
John A. Merrifield, plumbing	44.50	
Elmer S. Stack, plumbing	20.90	
Charles A. Holmes, plumbing	47.08	
George W. Tibbetts, plumbing	42.70	
W. L. Snow, plumbing	84.24	
James H. Adcock, plumbing	42.85	
<i>Amounts carried forward</i> .	\$7,631.43	\$17,313.31

<i>Amounts brought forward</i> .	\$7,631.43	\$17,313.31
Donnelly & Co., plumbing .	7.05	
W. E. Plumer & Co., hardware	252.07	
E. S. Sparrow & Co., hardware	84.54	
Underhill Hardware Co., hardware	190.60	
Whitney & Snow, hardware .	270.36	
Cambridge Hardware Co., hardware	13.03	
Chandler & Farquhar, hardware	1.27	
J. E. Parsons, plumbing	1.90	
T. A. Sallaway, glass	9.46	
I. H. Brown Moulding Co., lumber	42.65	
William H. Wood & Co., lumber	127.52	
Thomas W. Gleeson, electrical supplies	61.04	
Pettingell - Andrews Co., electrical supplies	44.13	
Blodgett Bros. & Co., electrical supplies	3.70	
A. E. Rowe, electrical supplies	4.30	
J. W. Mess, electric work .	6.00	
Barbour, Stockwell Co., repairs of motor	12.00	
Thomas Dowd, plastering .	393.80	
B. E. Higgins, plastering . .	30.75	
L. C. Seavey, roofing	261.59	
Alfred H. Hines, mason work .	85.10	
D. P. Bucknam, mason work .	41.50	
J. J. Ryan, mason work	10.00	
Chandler Adjustable Chair & Desk Co., furniture	1,059.63	
F. W. Allen & Co., furniture .	99.60	
<i>Amounts carried forward</i> .	\$10,745.02	\$17,313.31

<i>Amounts brought forward</i>	\$10,745.02	\$17,313.31
Allen - Thompson - Whitney Co., furniture	151.50	
P. Derby & Co., furniture	10.00	
W. F. Flemming, repairs of furniture	6.90	
Jackson Caldwell & Co., re- pairs of furniture	1.25	
Holland & Daniels, shades	90.25	
William E. Daniels, shades	471.64	
J. E. Bell, blackboard	353.42	
William McElivain, repairs of blackboard	17.20	
Charles A. Austin & Co., brushes	29.00	
Jordan & Christie, brushes	8.50	
Murphy, Leavens & Co., brushes	125.50	
W. G. Hallock, dusters	4.00	
Boston Feather Duster Co., dusters	71.48	
Greenwood & Co., mat	7.09	
Shepard & Samuels, sponges, etc.	108.00	
John H. Pray, Sons & Co., carpets	308.66	
E. A. Drowne & Co., gas fixtures	250.85	
Schoolhouse, English High account, gas fixtures	114.30	
Jarvis Engineering Co., grates	16.80	
A. M. Prescott, door straps	1.00	
George W. Manning, labor on flagstaffs	92.10	
F. D. Weld, flagstaff	3.00	
G. P. Richardson, flags	90.00	
<i>Amounts carried forward</i>	\$13,077.46	\$17,313.31

<i>Amounts brought forward</i>	\$13,077.46	\$17,313.31
E. W. Richardson, flag	15.00	
Support of Poor account, flag	18.00	
Mrs. J. T. Frost, repairing flag	4.19	
O. S. Merry, repairing flag	30.69	
W. H. Bullard, oil . . . . .	.55	
P. Sutherland & Co., oil	6.90	
Clark, Brown & Co., oil	43.70	
Patrick Bowdren, care of lawn	132.25	
F. S. Cummings, grading	4.00	
H. A. Pestell, paperhanging	1.00	
William F. Eccles, cleaning carpet	7.16	
Albert C. Lyman, cleaning carpet	3.95	
Murdock Parlor Grate Co., tablets	60.00	
Boston Blower Co., repairs of ventilator	19.60	
W. M. Hadley, lime	1.00	
Cornelius Callahan Co., gong	13.00	
Moulton C. Libbey, clocks, etc.	142.30	
Fred W. Farrar, repairing clocks	28.00	
H. Wood, keys	29.45	
Fred L. Pulsifer, repairs of lock	4.25	
M. F. Underwood, repairs of lock	8.75	
A. J. Wilkinson & Co., tools	58.00	
Seward Dodge, repairs of tools	3.10	
Charles L. Underhill, repairs of tools	11.20	
D. P. Pierce, removing brown- tail moths	28.75	
Arthur W. Berry, expenses of committee	6.22	
<i>Amounts carried forward</i>	\$13,758.47	\$17,313.31

<i>Amounts brought forward</i> .	\$13,758.47	\$17,313.31
R. M. Johnson, cleaning vault	12.00	
John Silk, loam	24.00	
M. J. Coneeny, sods	14.80	
William S. Ward, supplies	2.63	
William H. Waterfall, refresh- ments	13.50	
William A. Muller, premium of insurance	150.00	
W. V. T. Hinckley, premium of insurance	75.00	
Harry A. True, premium of insurance	75.00	
Frank A. Teele, premium of insurance	75.00	
O. H. Perry & Co., premium of insurance	75.00	
Hartford Steam Boiler Inspec- tion and Insurance Co., insurance	50.00	
A. B. Colesworthy, labor	24.00	
J. W. Rich, labor	111.75	
William Butler, labor	20.00	
N. L. Pennock, labor	5.00	
B. F. Sheridan, sawdust	2.65	
Howard Lowell & Son, carriage hire	10.00	
J. H. Thompson, carriage hire	15.00	
City of Boston, water	357.30	
City of Somerville, water	911.01	
City of Somerville, Sidewalk assessment	59.34	
Cambridge Gaslight Co., gas	661.95	
Charlestown Gas & Electric Co., gas	157.68	
Somerville Electric Light Co., lighting	210.15	
<i>Amounts carried forward</i> .	\$16,871.23	\$17,313.31

<i>Amounts brought forward</i>	\$16,871.23	\$17,313.31
E. R. Perham, expressing . . . . .	.30	
Glines & Co., expressing	15.44	
R. A. R. Benson, expressing	47.10	
George T. Day, expressing	1.65	
M. G. Staples, expressing	19.88	
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	\$16,955.60	
Excess and Deficiency, balance to credit of account	357.71	
	<hr/>	\$17,313.31
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SCHOOLHOUSE, PRESCOTT, HEATING AND VENTILATING.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account		\$6,000.00
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DEBIT.

Cash, paid Alexander Duncan & Co., on account of contract for heating and ventilating apparatus	\$3,000.00	
A. A. Sanborn, plans, etc.	165.27	
Jarvis Engineering Co., mason work	54.37	
B. E. Higgins, plastering	139.92	
J. E. Parsons, plumbing	69.92	
Water Maintenance account, service pipe	86.75	
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	\$3,516.23	
Balance to credit of account, 1899	2,483.77	
	<hr/>	\$6,000.00
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SCHOOLHOUSE, LAND IN WARD TWO.

CREDIT.

Balance from 1897		\$94.75
		<hr/>
<i>Amount carried forward</i>		\$94.75

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 205

Amount brought forward \$94.75

DEBIT.

Cash, paid Joseph J. Giles, Agt., part payment on account of land and buildings	\$94.00	
Excess and Deficiency, balance to credit of account . . . . .	.75	\$94.75

SCHOOLHOUSE, WARD TWO.

CREDIT.

Appropriations, amount appropriated by borrow- ing on Funded Debt account		\$34,000.00
Armory account, amount transferred		4,000.00
Cash, received of Thomas Kilroy, old building	\$50.00	
Michael Haley, old building	20.00	
	<hr/>	70.00
		<hr/>
		\$38,070.00

DEBIT.

Cash, paid Charles T. Flagg, Henry D. Flagg, Emily F. Willcome, Elizabeth Sim- mons, and Florence A. M. Thayer for land on Wash- ington street	\$9,122.00	
Prescott & Sidebottom, ser- vices as architects	582.50	
S. L. Cummings, disburse- ments	3.50	
City of Somerville, tax of 1898	139.53	
C. Caseau, painting signs	1.00	
	<hr/>	\$9,848.53
Balance to credit in account, 1899	28,221.47	
	<hr/>	\$38,070.00

SCHOOLHOUSE, SPRING HILL DISTRICT.

CREDIT.

Balance from 1897	\$32,920.57
Appropriations, amount appropriated by borrowing on Funded Debt account	6,000.00
Sewers, Construction account, amount transferred	600.00
Armory account, amount transferred	521.03
	<hr/>
	\$40,041.60

DEBIT.

Cash, paid W. L. Clark & Co., on account of contract	\$27,330.00	
Extra work	1,468.89	
A. A. Sanborn, on account of contract for heating apparatus	5,715.00	
Aaron H. Gould, services as architect	874.32	
Alfred H. Hines, mason work	225.72	
Charles A. Kelley, laying sewer	71.70	
Craig & Conley, plumbing	27.00	
George D. Goodrich, drain pipe	49.92	
John Harrington, stone steps	160.00	
C. A. Southwick, labor	2.00	
T. Allen, concreting	282.26	
M. J. Coneeny, grading	257.50	
Walter A. Berry, fence	102.95	
Cambridge Gaslight Co., gas pipe	24.46	
E. A. Drowne & Co., gas fixtures	83.05	
William E. Daniels, shades	169.56	
J. E. Bell, blackboard	28.60	
	<hr/>	
<i>Amounts carried forward</i>	\$36,872.93	\$40,041.60

<i>Amounts brought forward</i>	\$36,872.93	\$40,041.60
F. W. Allen & Co., furniture	423.75	
Chandler Adjustable Chair & Desk Co., furniture	2,433.50	
P. Derby & Co., furniture	36.00	
Sewers, Maintenance account, laying drain	144.43	
City of Somerville, Sidewalk assessment	69.60	
Highways account, edgestones	37.59	
Sidewalks account, labor, etc.	23.80	
	<hr/>	<u>\$40,041.60</u>

SCHOOL TEACHERS' SALARIES.

CREDIT.

Appropriations, amount assessed	\$190,000.00
Reduction of Funded Debt account, amount transferred	12,946.83
	<hr/>
	\$202,946.83

DEBIT.

Cash, paid salaries as per pay rolls	<u>\$202,946.83</u>
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SEWER ASSESSMENTS.

CREDIT.

Cash, received of Sundry Persons	\$11,500.87
Sewers, Construction account, abatements	124.89
Balance to debit in account, 1899	7,435.90
	<hr/>
	\$19,061.66

DEBIT.

Balance from 1897	\$ 7,954.62
Sewers, Construction account, assessments levied	11,107.04
	<hr/>
	<u>\$19,061.66</u>

SEWERS, CONSTRUCTION.

CREDIT.

Balance from 1897		\$19,274.35
Appropriations, amount appropriated by borrowing on Funded Debt account		25,000.00
Water Works Income account, amount appropriated		67,280.96
Sewer Assessments, assessments levied		11,107.04
Cash, received of David W. Crocker, proportionate part of constructing sewer in Day street	\$50.00	
Edward D. Hadley, draining lot into Line street sewer	33.54	
Charles A. Kelley, manhole frame and cover	6.33	
Sidewalks account, edgestones	10.62	
Highways account, recording releases	6.87	
		107.36
		\$122,769.71

DEBIT.

Cash, paid laborers	\$6,434.88	
George D. Goodrich, drain pipe	1,818.59	
Portland Stone Ware Co., drain pipe	2,340.25	
D. W. Lewis, cement	176.25	
Waldo Bros., cement	412.72	
Berry & Ferguson, cement	65.80	
W. A. Sanborn, bricks	440.79	
Osgood & Hart, castings	950.23	
Barbour, Stockwell & Co., castings	59.00	
Williams Table & Lumber Co., lumber	25.16	
		\$12,723.67
<i>Amounts carried forward</i>	\$12,723.67	\$122,769.71

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<i>Amounts brought forward</i>	\$12,723.67	\$122,769.71
F. C. Ayer, lumber	86.12	
Charles E. Berry, chutes	30.00	
H. W. Covell, plumbing	16.88	
J. A. Durell, hardware	7.17	
Whitney & Snow, hardware	1.26	
Charles L. Underhill, black- smithing	57.20	
J. B. Rufer, blacksmithing	10.85	
T. F. Colliton, blacksmithing	2.00	
Park Bros., cement	21.80	
Fitchburg Railroad Co., ties	3.00	
Middlesex Registry of Deeds, recording	11.40	
Thomas Groom & Co., books	17.75	
Somerville Citizen Co., adver- tising	24.00	
Somerville Journal Co., adver- tising	136.00	
Mechanics Iron Foundry Co., manhole covers	69.63	
Chelmsford Foundry Co., beams	13.66	
Metropolitan Water Board, raising water pipe	739.46	
G. F. Matthews, carpentering	104.76	
Mrs. L. F. Bowker, repairing drain	11.85	
John Burns, compensation for damages	450.00	
Charles H. Swan, professional services	78.00	
Geo. O. W. Servis, photo- graphs	48.55	
Clark & Quilty, sand	13.60	
M. A. Simpson, sand	14.50	
<i>Amounts carried forward</i>	\$14,693.11	\$122,769.71

<i>Amounts brought forward</i>	\$14,693.11	\$122,769.71
James Tevlin, teaming	407.89	
E. W. Danforth, car fares, etc.	30.75	
Edgar H. Hunter, car fares, etc.	14.90	
James D. Fallon, car fares, etc.	8.10	
Ernest W. Burckes, rent of shed	18.00	
M. F. Underwood, keys . . . . .	.45	
I. B. Walker, steps	6.00	
Sewers, Maintenance account, lumber	21.44	
Water, Maintenance account, iron pipe	96.09	
Highways account, setting circle	6.50	
Thomas H. Bryne, storm-water drain in Broadway and Cross street	13,885.53	
Daniel A. Dorey & Co., storm- water drain in Winthrop avenue	5,354.90	
C. E. Trumbull & Co., storm- water drain in Sherman ct., Marshall street, Gilman sq., and Medford street	17,845.73	
C. E. Trumbull & Co., storm- water drain in Union sq., Bow and Summer streets	16,012.48	
C. E. Trumbull & Co., sewer in Somerville avenue	8,239.00	
C. E. Trumbull & Co., sewer in Day street	237.35	
Timothy F. Crimmings, sewer in Somerville avenue	3,486.58	
Charles A. Mongan, sewer in Packard and Electric ave- nues	221.36	
<i>Amounts carried forward</i>	\$80,586.16	\$122,769.71

<i>Amounts brought forward</i> .	\$80,586.16	\$122,769.71
Charles A. Mongan, sewer in Broadway	2,961.32	
Charles A. Mongan, cement .	4.80	
Charles A. Kelley, sewer in Beacon place	11.56	
Charles A. Kelley, sewer in Medford street	11.10	
Charles A. Kelley, sewer in Tennyson street	83.49	
Charles A. Kelley, sewer in Jenny Lind avenue	656.32	
Patrick Burke, sewer in More- land street	430.38	
Richard Falvey, storm-water drain in Broadway and Sar- gent avenue	12,966.61	
Richard Falvey, sand and gravel	40.41	
Charles C. McGrew & Co., sewer in Mystic avenue	352.19	
Daniel A. Dorey, sewer in Liberty avenue	1,041.29	
Daniel A. Dorey, sewer in North street and Raymond avenue	1,255.24	
Daniel A. Dorey, sewer in Curtis street	690.01	
William F. Cunningham, sewer in Windsor road	266.06	
William F. Cunningham, sewer in Woodstock street	750.64	
William F. Cunningham, sewer in Waterhouse street	376.78	
William F. Cunningham, sewer in Farragut avenue	469.55	
<i>Amounts carried forward</i> .	\$102,953.91	\$122,769.71

<i>Amounts brought forward</i>	\$102,953.91	\$122,769.71
William F. Cunningham, sewer in Victoria street	405.51	
William F. Cunningham, sewer in Endicott avenue	634.09	
William F. Cunningham, sewer in Garrison avenue	414.31	
City of Cambridge, land dam- ages on account of Tannery Brook sewer	754.77	
	<hr/>	
	\$105,162.59	
Schoolhouse, Spring Hill Dis- trict account, amount trans- ferred	600.00	
Sewer Assessment account, abatements	124.89	
	<hr/>	
	\$105,887.48	
Balance to credit in account, 1899	16,882.23	
	<hr/>	
		\$122,769.71
		<hr/> <hr/>

SEWERS, MAINTENANCE.

CREDIT.

Appropriations, amount assessed		\$7,000.00
Interest account, amount transferred		300.00
Cash, received of City of Cam- bridge, repairs of Somerville avenue sewer	\$63.22	
George T. Bosson & L. R. Wentworth, Trs., dividend on bill for labor	6.25	
M. Norton & Co., old hose	1.25	
Wellington - Wild Coal Co., lumber	48.45	
Schoolhouse, Spring Hill Dis- trict account, labor, etc.	144.43	
	<hr/>	
<i>Amounts carried forward</i>	\$263.60	\$7,300.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 213

<i>Amounts brought forward</i>	\$263.60	\$7,300.00
Sewers, Construction account, lumber	21.44	
Highways, Paving Webster avenue account, use of team	4.57	
Water, Maintenance account, labor, etc.	56.10	
	<hr/>	345.71
Excess and Deficiency, balance to debit of account		109.35
		<hr/>
		\$7,755.06

DEBIT.

Cash, paid laborers	\$4,842.09	
James Tevlin, teaming	1,879.87	
George D. Goodrich, drain pipe	33.36	
Portland Stone Ware Co., drain pipe . . . . .	.67	
Berry & Ferguson, cement	15.40	
Waldo Bros., cement	2.20	
David W. Lewis, cement	20.35	
H. A. Hanscom & Co., cement	3.50	
W. G. Nash, cement	3.75	
F. O. Reed, rent of water course for drainage	300.00	
Boston Coupling Co., couplings	31.20	
F. C. Ayer, lumber	41.42	
Charles Linnehan, sand	3.50	
M. A. Simpson, sand . . . . .	.50	
Charles L. Underhill, iron work	12.07	
Whitney & Snow, hardware	66.50	
E. S. Sparrow & Co., hardware	1.20	
J. A. Durell, hardware	1.99	
Howe & Flint, hardware	8.37	
F. Dooris, repairs of tools	3.96	
Edson Mfg. Co., repairs of tools	8.00	
	<hr/>	
<i>Amounts carried forward</i>	\$7,279.90	\$7,755.06

<i>Amounts brought forward</i>	\$7,279.90	\$7,755.06
I. B. Walker, repairs of tools	1.70	
H. Wood, filing saws	5.65	
John Fisher, pails	5.40	
T. C. Pinkham, rubber boots	45.45	
L. B. Pillsbury, Agent, cleaning cellar	5.70	
Barbour-Stockwell Co., ring and cover	8.75	
Osgood & Hart, traps	70.39	
M. Norton & Co., hose	151.20	
W. A. Sanborn, bricks	54.42	
Frank W. Leavitt, painting	10.00	
Ernest W. Danforth, disbursements	3.00	
J. H. Thompson, carriage hire	8.00	
Thomas Groom & Co., stationery	41.75	
Somerville Citizen Co., printing	12.75	
I. L. Smith, fuel	8.75	
Wellington-Wild Coal Co., fuel	2.25	
City of Somerville, water	40.00	
	<hr/>	\$7,755.06

SIDEWALKS.

CREDIT.

Appropriations, amount assessed		\$10,000.00
Appropriations, amount appropriated by borrowing on Funded Debt account		5,000.00
Sidewalk Assessments levied		14,848.14
Highways account, amount transferred		167.41
Cash, received of John and Matilda Beaudett, sidewalk	\$ 37.10	
Augusta M. Stilphen, sidewalk	12.00	
J. H. Maguire, sidewalk	111.80	
	<hr/>	
<i>Amounts carried forward</i>	\$160.90	\$30,015.55

<i>Amounts brought forward</i>	\$160.90	\$30,015.55
Annie A. Terrio, sidewalk	41.32	
Henry A. Stevens, sidewalk	22.50	
Amasa Harmon, removing fence	1.60	
Edward T. Huntress, remov- ing fence . . . . .	.75	
James L. Blodgett, removing fence . . . . .	.75	
L. M. Baldwin, removing fence	1.30	
Highways account, edgestones	7.57	
Schoolhouse, Spring Hill Dis- trict account, labor	23.80	
	<hr/>	260.49
		<hr/>
		\$30,276.04

DEBIT.

Cash, paid laborers	\$8,097.97	
S. & R. J. Lombard, edge- stones	7,395.12	
W. A. Sanborn, bricks	9,368.61	
W. A. Murtfeldt Co., grano- lithic curbing	368.68	
E. B. Edmister, bricks	238.44	
Thomas Casey, bricks	861.45	
D. Washburn & Son, bricks	285.62	
W. G. Nash, cement	2.25	
W. H. Morris, moving fence	4.40	
Somerville Journal Co., print- ing	212.50	
Somerville Citizen Co., print- ing	254.00	
Highways account, labor, team- ing and materials	3,055.43	
Highways, Paving Webster avenue account, setting edge- stones	30.35	
	<hr/>	
<i>Amounts carried forward</i>	\$30,174.82	\$30,276.04

<i>Amounts brought forward</i>	\$30,174.82	\$30,276.04
Public Grounds account, sods	8.80	
Sewers, Construction account, edgestones	13.39	
Sidewalk Assessments, assess- ments abated	79.03	
	<hr/>	<hr/>
		\$30,276.04

SIDEWALK ASSESSMENTS.

CREDIT.

Cash, received of Sundry Persons		\$13,064.02
Sidewalks, assessments abated		79.03
		<hr/>
		\$13,143.05
Balance to debit of account, 1899		5,193.11
		<hr/>
		\$18,336.16

DEBIT.

Balance from 1897	\$ 3,488.02	
Sidewalks, assessments levied	14,848.14	
	<hr/>	<hr/>
		\$18,336.16

STATE AID.

CREDIT.

State of Massachusetts, amount paid in 1898 charged to State		\$10,972.50
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DEBIT.

Cash, paid monthly pay rolls		\$10,972.50
		<hr/>
		<hr/>

STATE OF MASSACHUSETTS.

CREDIT.

Appropriations, amount appropriated		\$27,075.00
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DEBIT.

Cash, paid State Treasurer, State tax		\$27,075.00
		<hr/>
		<hr/>

STATE OF MASSACHUSETTS, METROPOLITAN SEWER.

CREDIT.

Appropriations, amount assessed	\$31,566.31
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DEBIT.

Cash, paid State Treasurer, assessment of 1898	\$31,566.31
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STATE OF MASSACHUSETTS, METROPOLITAN WATER SUPPLY.

CREDIT.

Appropriations, amount appropriated from Water Works Income	\$14,250.19
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DEBIT.

Cash, paid State Treasurer, Metropolitan water assessment for the year 1898	\$14,250.19
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STATE OF MASSACHUSETTS, NON-RESIDENT BANK STOCK.

CREDIT.

Appropriations, amount assessed	\$1,043.12
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DEBIT.

Cash, paid State Treasurer, amount collected on non-resident stock	\$1,043.12
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STATE OF MASSACHUSETTS, BURIAL OF INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Cash, received of State Treasurer for burials in 1897	\$245.00
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Balance December 31, 1898, due from State December 10, 1899	455.00
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	\$700.00
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DEBIT.

Balance from 1897	\$245.00
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Relief and burial of indigent soldiers and sailors	455.00
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	\$700.00
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STATE OF MASSACHUSETTS, INDIGENT SOLDIERS
AND SAILORS.

CREDIT.

Cash, received of State Treasurer	\$365.00
Balance December 31, 1898, due from State December 10, 1899	257.00
	<hr/>
	\$622.00

DEBIT.

Balance from 1897	\$353.00
Indigent Soldiers and Sailors, one half of amount paid in 1898	269.00
	<hr/>
	\$622.00

STATE OF MASSACHUSETTS, STATE AID.

CREDIT.

Cash, received of State Treasurer	\$ 9,261.50
Balance December 31, 1898, due from State December 10, 1899	10,848.50
	<hr/>
	\$20,110.00

DEBIT.

Balance from 1897	\$ 9,137.50
State Aid, amount paid in 1898	10,972.50
	<hr/>
	\$20,110.00

STREET LIGHTS.

CREDIT.

Appropriations, amount assessed	\$45,000.00
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DEBIT.

Cash, paid Somerville Electric Light Co., lighting	\$43,352.81
Welsbach Street Lighting Co. of America, lighting	487.75
	<hr/>
<i>Amounts carried forward</i>	\$43,840.56
	<hr/>
	\$45,000.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 219

<i>Amounts brought forward</i>	\$43,840.56	\$45,000.00
Somerville Citizen Co., advertising	3.00	
Howard Lowell & Son, carriage hire	34.00	
M. F. Underwood, labor	8.00	
Hotel Colson, refreshments	12.00	
	<hr/>	
	\$43,897.56	
Excess and Deficiency, balance to credit of account	1,102.44	
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		\$45,000.00
		<hr/> <hr/>

SUNDRY PERSONS.

	CREDIT.	
Balance from 1897		\$25,917.81
Water Loan Interest, coupons not paid		2,735.00
Interest, coupons not paid		20,530.00
		<hr/>
		\$49,182.81
	DEBIT.	
Cash, paid Sundry Persons, amounts due them	\$21,709.21	
Balance to credit in account, 1899	27,473.60	
	<hr/>	
		\$49,182.81
		<hr/> <hr/>

SUPPORT OF POOR, ALMSHOUSE.

	CREDIT.	
Appropriations, amount appropriated by borrowing on Funded Debt account		\$20,000.00
	DEBIT.	
Balance to credit of account, 1899		\$20,000.00
		<hr/> <hr/>

SUPPORT OF POOR.

	CREDIT.	
Appropriations, amount assessed		\$20,000.00
<i>Amount carried forward</i>		\$20,000.00

<i>Amount brought forward</i>		\$20,000.00
Interest account, amount transferred		3,000.00
Cash, received for support of paupers : —		
Of State of Massachusetts	\$2,233.49	
Of City of Boston	1,208.66	
Of City of Cambridge	604.80	
Of City of Lynn	14.75	
Of City of Lowell	88.15	
Of City of Marlborough	49.58	
Of City of Malden	68.30	
Of City of Newton	38.03	
Of City of Quincy	50.94	
Of City of Springfield	2.45	
Of City of Woburn	51.45	
Of City of Worcester	9.85	
Of Town of Canton	2.93	
Of Town of Danvers	49.14	
Of Town of Brookline	10.00	
Of Town of Hingham	89.47	
Of Town of Leominster	1.25	
Of Town of Mattapoisett	4.00	
Of Town of Merrimac	12.30	
Of Town of North Andover	96.68	
Of Town of Revere	3.00	
Of Town of Plymouth	3.50	
Of Town of Watertown	10.00	
Of Town of Clinton	10.50	
Charles I. Davis, aid furnished	146.00	
Albert Gilman, aid furnished	169.47	
F. W. Kaan, Guardian, aid furnished	84.03	
Selwyn Z. Bowman, Executor, aid furnished	767.22	
Morrill W., Clara M. and Mary T. Bagley, aid furnished	53.20	
<i>Amounts carried forward</i>	\$5,933.14	\$23,000.00

<i>Amounts brought forward</i> .	\$5,933.14	\$23,000.00
Newman S. Wax, aid furnished	107.71	
Frederick A. P. Fiske, Guardian, aid furnished	84.49	
Richard Moore, aid furnished .	113.75	
William F. Spruen, aid furnished	39.93	
C. C. Folsom, Guardian, aid furnished	26.96	
C. C. Folsom, old flag	10.00	
Mrs. John Kelley, furniture	5.00	
Susan Nangle, money refunded	2.00	
Highways account, labor of paupers	212.00	
Schoolhouse Incidentals account, flags	18.00	
	<hr/>	6,552.98
		<hr/>
		\$29,552.98

DEBIT.

Cash, paid Commonwealth of Massachusetts, support of paupers	\$1,124.26	
Massachusetts Hospital for Dipsomaniacs	498.17	
Massachusetts School for the Feeble Minded	646.62	
Worcester Lunatic Hospital	2,930.84	
Worcester Insane Asylum	847.88	
Westboro Insane Hospital	671.20	
Danvers Lunatic Hospital	762.81	
Medfield Insane Asylum	1,988.00	
Taunton Lunatic Hospital	366.78	
Boston Insane Hospital	169.46	
Hospital Cottages for Children	126.74	
Somerville Hospital	3,135.56	
	<hr/>	
<i>Amounts carried forward</i> .	\$13,268.32	\$29,552.98

<i>Amounts brought forward</i>	\$13,268.32	\$29,552.98
City of Boston	1,287.52	
City of Cambridge	612.05	
City of Chelsea	105.50	
City of Brockton	10.54	
City of Lowell	64.00	
City of Malden	525.40	
City of Medford	70.20	
City of Newton	38.03	
City of Worcester	48.86	
City of Waltham	111.73	
Town of Milford	52.39	
Town of Maynard	16.06	
Town of Peabody	341.07	
Town of Raynham	202.72	
Town of Revere	288.82	
Town of Attleboro	56.00	
Carney Hospital	2.29	
John Murphy, rent	21.00	
Ellen Driscoll, rent	44.00	
Ellen Halloran, rent	35.00	
James Ambrose, rent	21.00	
Christina West, rent	96.00	
Ellen Mahoney, rent	84.00	
Ellen Murphy, rent	21.00	
Sophia Knapp, board	28.06	
Mary Curran, board	11.94	
Jennie Davis, board	16.60	
Addie D. Haynes, board	26.15	
Adelaide Pendexter, board	10.00	
Mary Carroll, board	10.00	
Mrs. Thomas Rouse, board	40.00	
Margaret McCarthy, board	40.00	
Annie Campbell, board	5.71	
Mrs. W. H. Johnson, board	144.00	
Mrs. E. Wilcomb, board	101.77	
<i>Amounts carried forward</i>	\$17,857.73	\$29,552.98

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 223

<i>Amounts brought forward</i>	\$17,857.73	\$29,552.98
Mary Dugan, board	70.00	
Elizabeth E. Remington, board	52.17	
Charles T. Shean, board	45.85	
Mary Shean, board	87.48	
A. Crafts Wade, board	130.33	
Julia Campbell, board	332.75	
Deborah Minard, board	84.27	
Hannah M. Mayo, board	84.03	
Clara Roberts, board	169.46	
Susan McDonald, board	90.57	
Mary Budreau, board	50.17	
Ellen Craig, board	7.50	
Emily M. Higgins, board	87.44	
Kurn Hattin Homes, board	200.00	
Mrs. George F. Sawyer, board	57.13	
Emma E. Perkins, cash allow- ance	60.00	
C. C. Folsom, salary as agent	1,500.00	
Disbursements	264.52	
A. B. Dearborn, salary as City Physician	61.83	
William F. Holmes, salary as City Physician	938.17	
Medicines	394.30	
Cora F. Lewis, salary as secre- tary	600.00	
Sara J. Lamont, clerical ser- vices	26.67	
New England Telephone & Telegraph Co., rentals and tolls	70.66	
J. Arthur Bean, medicine	1.10	
Henry D. Padelford, medicine	34.90	
Frederick W. Gay, medicine . . . . .	.70	
Milton H. Plummer, medicine	3.00	
<i>Amounts carried forward</i>	<u>\$23,362.73</u>	<u>\$29,552.98</u>

<i>Amounts brought forward</i>	\$23,362.73	\$29,552.98
Clark & Gay, medicine	2.15	
Peake Mfg. Co., medicine	14.25	
F. H. Dudley, medicine . . . . .	.60	
Howard Hamlin, medicine	136.90	
Herbert E. Bowman, medicine	39.55	
J. W. Howard, floral tribute	20.00	
P. H. Rafferty, services as undertaker	65.00	
C. F. Bryant, services as undertaker	15.00	
Alfred E. Mann, services as undertaker	30.00	
W. A. Flaherty, services as undertaker	74.00	
John S. McGowan, services as undertaker	15.00	
E. H. Marsh & Son, services as undertaker	15.00	
W. D. Hayden, moving furni- ture	2.50	
W. E. Plumer & Co., saws	2.70	
Smith, Patterson & Co., clock	4.50	
F. W. Gilbert, boots and shoes	114.95	
Philip Eberle, boots and shoes	7.50	
J. H. Brooks, dry goods	29.58	
James W. Brine, clothing	21.50	
A. F. Carpenter, groceries and provisions	366.78	
James H. Maguire, groceries and provisions	187.50	
Charles S. Butters, groceries and provisions	92.00	
Fred J. Pillsbury, groceries and provisions	23.50	
W. H. Bullard, groceries and provisions	111.13	
<i>Amounts carried forward</i>	\$24,754.32	\$29,552.98

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 225

<i>Amounts brought forward</i> .	\$24,754.32	\$29,552.98
W. P. Blanchard, groceries and provisions	169.40	
Medford Street Market, groceries and provisions	429.50	
Christopher Bros., groceries and provisions	10.00	
E. R. Lowell & Co., groceries and provisions	28.50	
F. E. Cheney & Co., groceries and provisions	9.50	
W. S. Ward, groceries and provisions	603.00	
R. M. Sturtevant, groceries and provisions	344.00	
M. L. King, groceries and provisions	94.99	
F. E. Robie & Son, groceries and provisions	46.00	
A. E. Robie, groceries and provisions	184.00	
F. L. Card, groceries and provisions	111.58	
Sawyer & Read, groceries and provisions	268.87	
N. R. Barrows, groceries and provisions	58.00	
W. H. Burgess, groceries and provisions	24.00	
C. L. Stevens, groceries and provisions	8.00	
Charles A. Small & Co., groceries and provisions	56.00	
James Bartley, groceries and provisions	315.00	
J. G. Albee, groceries and provisions	73.50	
<i>Amounts carried forward</i> .	\$27,588.16	\$29,552.98

<i>Amounts brought forward</i>	\$27,588.16	\$29,552.98
L. Stockbridge, groceries and provisions	20.96	
C. N. Brown, groceries and provisions	6.00	
D. E. Watson, groceries and provisions	59.50	
Emerson R. Christopher, groceries and provisions	24.00	
Thomas Groom & Co., stationery	25.65	
W. A. Greenough & Co., directory	3.00	
F. S. Blanchard & Co., books	1.50	
Somerville Journal Co., printing	7.00	
F. W. Jackman, printing	2.00	
Smith Premier Typewriter Co., repairs	3.35	
Jackson Caldwell & Co., matting	5.25	
H. Wood, filing saws . . . . .	.60	
Howard Lowell & Son, carriage hire	15.00	
L. H. Brown, carriage hire	6.50	
Horatio Wellington & Co., fuel	490.69	
Wellington-Wild Coal Co., fuel	225.70	
J. E. Marsh, medical attendance	27.35	
F. E. Varney, medical attendance	10.00	
	<hr/>	
	\$28,522.21	
Excess and Deficiency, balance to credit of account	1,030.77	
	<hr/>	
		\$29,552.98
		<hr/> <hr/>

TAXES.

CREDIT.

Cash, received for taxes of 1892 .	\$14.00	
" " " " 1893 .	102.05	
" " " " 1894 .	394.94	
" " " " 1895 .	1,142.28	
" " " " 1896 .	46,760.02	
" " " " 1897 .	152,425.93	
" " " " 1898 .	708,724.52	
	<hr/>	\$909,563.74

Overlay and Abatement :—

Abatements on taxes of 1893 .	\$4.00	
" " " " 1894 .	4.00	
" " " " 1895 .	8.00	
" " " " 1896 .	222.98	
" " " " 1897 .	588.46	
" " " " 1898 .	4,909.90	
	<hr/>	5,737.34

Balance to debit in account, 1898 :—

Being uncollected taxes of 1889	\$46.60	
" " " " 1890	7,218.20	
" " " " 1891	57.40	
" " " " 1892	250.50	
" " " " 1893	6,596.65	
" " " " 1894	6,666.47	
" " " " 1895	7,617.60	
" " " " 1896	9,751.44	
" " " " 1897	76,896.64	
" " " " 1898	240,552.69	
	<hr/>	355,654.19

\$1,270,955.27

DEBIT.

Balance from 1897	\$316,768.16	
Appropriations, amount assessed for current expenses	834,400.00	
	<hr/>	
<i>Amounts carried forward</i> .	\$1,151,168.16	\$1,270,955.27

<i>Amounts brought forward</i>	\$1,151,168.16	\$1,270,955.27
State of Massachusetts, amount assessed for State tax	27,075.00	
State of Massachusetts, amount assessed for payment of Metropolitan Sewer Assessment	31,566.31	
State of Massachusetts, amount assessed on non-resident national bank stock	1,043.12	
County of Middlesex, amount assessed for County tax	44,894.56	
Street Watering, amount assessed for payment of a proportionate part of cost of watering streets for 1898	13,384.48	
Overlay and Abatement, amount added by the assessors	1,823.64	
	1,270,955.27	\$1,270,955.27

TEMPORARY LOANS.

CREDIT.

Balance from 1897		\$350,000.00
Cash, borrowed by authority of the City Council on notes as follows :—		
The Boston Five Cents Savings Bank, eight months, 4½ per cent.	\$150,000.00	
Estabrook & Co., two months eighteen days, 4⅞ per cent.	200,000.00	
Blake Bros. & Co., four months, 2.63 per cent.	50,000.00	
Estabrook & Co., four months sixteen days, 3.05 per cent.	200,000.00	
<i>Amounts carried forward</i>	\$600,000.00	\$350,000.00

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<i>Amounts brought forward</i>	\$600,000.00	\$350,000.00
The Boston Five Cents Savings Bank, six months, 3 per cent.	100,000.00	
Blake Bros. & Co., six months, 2.93 per cent.	100,000.00	
F. S. Moseley & Co., six months, 2.70 per cent.	100,000.00	
	<hr/>	900,000.00
		<hr/>
		\$1,250,000.00

DEBIT.

Cash, paid as follows:—

The Boston Five Cents Savings Bank, six months, 3½ per cent.	\$150,000.00	
F. S. Moseley & Co., four months, 2.56 per cent.	200,000.00	
Estabrook & Co., two months eighteen days, 4⅞ per cent.	200,000.00	
Estabrook & Co., four months sixteen days, 3.05 per cent.	200,000.00	
Blake Bros. & Co., four months, 2.63 per cent.	50,000.00	
The Boston Five Cents Savings Bank, eight months, 4½ per cent.	150,000.00	
	<hr/>	\$950,000.00
Balance to credit in account, 1899	300,000.00	
	<hr/>	\$1,250,000.00
		<hr/>

WATER LOAN INTEREST.

CREDIT.

Water Works Income, amount appropriated	\$11,925.00
	<hr/>
<i>Amount carried forward</i>	\$11,925.00

Amount brought forward \$11,925.00

DEBIT.

Cash, paid on Water Loan Debt:—

\$239,000.00, one year at 4 per cent. \$9,560.00

\$2,000.00, six months at 4 per cent. 40.00

\$28,000.00, one year at 5 per cent. 1,400.00

\$15,000.00, six months at 5 per cent. 375.00

\$10,000.00, one year at 5 1-2 per cent. 550.00

\$11,925.00

Less coupons unpaid 2,735.00

\$14,660.00

Sundry Persons, unpaid coupons 2,735.00

\$11,925.00

WATER MAINTENANCE.

CREDIT.

Water Works Income, amount appropriated \$60,000.00

City of Boston, water rates, amount transferred 5,278.88

Water Services, amount transferred 383.95

Cash, received of Sundry Persons, turning off and on water \$ 385.00

Water Service account, pipe, fittings, etc. 1,597.06

Sewers, Construction account, pipe, etc. 111.44

Schoolhouse, Prescott, Heating and Ventilating account, pipe, labor, etc. 86.75

Amounts carried forward \$2,180.25 \$65,662.83

<i>Amounts brought forward</i>	\$2,180.25	\$65,662.83
Highways account, lead	3.83	
Metropolitan Water Board, replacing water pipes	286.83	
J. P. Stewart & Co., repairing hydrants	25.40	
Trustees Tufts College, repair- ing hydrants	75.00	
Cambridge Gaslight Co., cast- ings	9.10	
Charlestown Gas & Electric Co., fittings	11.79	
Commonwealth of Massachu- setts, constructing water post	39.00	
A. F. Dickson, labor	1.50	
W. H. Woodbury, labor	1.25	
Day Street Congregational Church, labor	12.00	
Nathan H. Reed, labor	8.21	
L. D. Richards, labor	3.10	
C. B. Follett, labor	4.91	
Patrick Flynn, error in pay roll F. I. Bradshaw, replacing ser- vice pipe	18.00	
Elizabeth Cunningham, replac- ing service pipe	16.05	
Estate of Priscilla A. Shute, replacing service pipe	11.89	
Felipe Barnad, replacing ser- vice pipe	14.00	
D. F. Inwood, replacing ser- vice pipe	14.44	
D. F. Inwood, replacing ser- vice pipe	9.87	
Stark H. Davis, replacing ser- vice pipe	17.00	
T. H. Bryne, replacing service pipe	85.45	
<i>Amounts carried forward</i>	<hr/> \$2,848.87	<hr/> \$65,662.83

<i>Amounts brought forward</i> .	\$2,848.87	\$65,662.83
Adoniram J. Taylor, replacing service pipe	31.31	
T. F. Crimmings, replacing service pipe	21.20	
John D. Roberts, repairs of service pipe	3.49	
Mrs. Sullivan, repairs of ser- vice pipe	5.00	
Francis W. Evans, repairs of service pipe	17.46	
Alma Nelson, repairs of ser- vice pipe	5.69	
C. E. Trumbull & Co., repairs of service pipe	27.80	
Estate of Sarah O'Neil, repairs	1.10	
Richard D. Falvey, repairs .	37.95	
Clara T. Reed, pipe	7.25	
Estate of Rufus B. Stickney, setting meter	43.00	
Annie S. Bond, setting meter	12.25	
Dudley F. Hunt <i>et al.</i> , defi- ciency in revenue	30.50	
Franklin O. Reed, deficiency in revenue	27.31	
Samuel W. Mendum, deficiency in revenue	8.83	
Arlington Water Works, fit- tings	6.54	
City of Malden, fittings	58.75	
City of Medford, fittings	2.70	
James Maguire, fittings . . . . .	.75	
North Packing & Provision Co., fittings	5.00	
George Coales, fittings . . . . .	.75	
Thomas C. Connor, fittings . . . . .	.75	
<i>Amounts carried forward</i> .	\$3,204.25	\$65,662.83

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 233

<i>Amounts brought forward</i> .	\$3,204.25	\$65,662.83
Benjamin F. Freeman, fittings	17.00	
J. A. Merrifield, fittings .	.75	
Daniel Morrison, hose . . .	58.18	
	<hr/>	3,280.18
		<hr/>
		\$68,943.01

DEBIT.

Cash, paid laborers	\$25,678.38	
Nathaniel Dennett, salary as superintendent	116.66	
Frank E. Merrill, salary as clerk and superintendent .	2,300.00	
Disbursements	144.81	
Florence E. Barton, salary as assistant to clerk	722.40	
V. Florence Walker, salary as assistant to clerk	511.20	
Edward M. Shedd, inspector .	1,122.00	
S. E. Hayden, salary as en- gineer	1,100.00	
Nathan Tufts & Sons, hay and grain	228.95	
G. W. Ladd Co., hay and grain	120.25	
Fulton O'Brion, hay and grain	111.19	
Frank W. Leavitt, repairs of wagons	130.04	
R. B. Baker, repairs of wagons	4.35	
John Rooney, horseshoeing .	60.73	
Edward O'Brien, horseshoeing	11.38	
Seward Dodge, horseshoeing .	168.41	
I. B. Walker, horseshoeing .	8.45	
E. Spalding, harness work .	60.50	
D. J. Bennett, harness work .	2.25	
Charles E. Berry, harness work	1.00	
Charles L. Underhill, repairs of tools	159.36	
	<hr/>	
<i>Amounts carried forward</i> .	\$32,762.31	\$68,943.01

<i>Amounts brought forward</i> .	\$32,762.31	\$68,943.01
F. Dooris, repairs of tools .	180.39	
H. Wood, repairs of tools .	5.25	
Joseph Young, repairs of tools	3.00	
T. F. Culliton, repairs of tools	4.60	
Norwood Engineering Co., hydrant	460.00	
Rensselaer Mfg. Co., hydrant .	30.00	
Chadwick Lead Co., lead .	39.46	
Boston Lead Mfg. Co., lead and pipe	2,414.45	
Lead Lined Iron Pipe Co., pipe	1,324.71	
R. D. Wood & Co., iron pipe .	12,992.07	
W. A. Snow & Co., tools .	47.42	
Carlow & Co., tools	24.00	
Walworth Mfg. Co., seals and tools	133.76	
Perrin, Seamans & Co., tools .	122.27	
Hall Bros., street boxes . . .	121.80	
A. & E. Burton & Co., brushes	21.96	
James Russell Boiler Works Co., labor	10.55	
The Fairbanks Co., repairing valve . . . . .	.66	
Star Brass Mfg. Co., gauges .	35.00	
Priest, Page & Co., labor on scales	6.50	
Chapman Valve Mfg. Co., valves	88.42	
G. C. Whorf & Co., valves .	15.00	
Ludlow Valve Mfg. Co., valves	19.80	
Boston Bolt Co., bolts	1.75	
Sumner & Goodwin Co., hook	.25	
F. D. Weld, flagstaff	3.50	
Globe Gaslight Co., gasoline .	9.20	
New England Oil Co., oil . . .	54.56	
<i>Amounts carried forward</i> .	\$50,932.64	\$68,943.01

<i>Amounts brought forward</i>	\$50,932.64	\$68,943.01
W. F. Rowe, oil	68.03	
Brooklyn Varnish Co., varnish	6.25	
James Bartley, oil	6.08	
Derby Desk Co., furniture	10.80	
George H. Richter & Co., furniture	73.48	
F. W. Allen & Co., furniture	17.60	
A. H. Fletcher, repairs of furniture	12.95	
W. F. Flemming, repairs of furniture	2.00	
D. P. Bucknam, mason work	42.00	
Thomas Wood, mason work	29.75	
E. A. Drowne & Co., lamps	24.60	
Sewall & Day Cordage Co., packing	108.62	
Cutter & Parker, window frames	14.50	
F. S. Blanchard & Co., book	1.50	
Thomas Groom & Co., station- ery	298.37	
W. A. Greenough & Co., di- rectory	3.00	
Municipal Engineering Co., magazines	4.00	
"Fire & Water," magazines	3.00	
Engineering News Publishing Co., magazines	13.00	
Heliotype Printing Co., charts	15.00	
Jackson Caldwell & Co., shades	8.30	
J. H. Brooks, flannel	2.75	
James Gurney & Co., boiler plates	15.95	
Boston & Maine Railroad Co., freight	606.40	
<i>Amounts carried forward</i>	\$52,320.57	\$68,943.01

<i>Amounts brought forward</i>	\$52,320.57	\$68,943.01
J. W. Howard, shrubs	218.65	
Cambridge Gas Light Co., lighting	34.08	
Somerville Electric Light Co., lighting	95.36	
City of Boston, water	5.60	
City of Somerville, water	74.40	
New England Telephone & Telegraph Co., rentals and tolls	379.71	
W. A. Sanborn, bricks	43.50	
Waldo Bros., bricks	16.25	
M. A. Simpson, sand	13.00	
Charles S. Robertson, pre- mium of insurance	100.00	
H. Mueller Mfg. Co., fittings	14.56	
Braman Dow & Co., fittings	654.27	
I. G. Marston & Co., fittings	37.88	
E. M. Dart Mfg. Co., fittings	9.33	
Thomson Meter Co., meters	9.90	
Hersey Mfg. Co., meters	8.40	
Union Water Meter Co., meters	20.00	
National Meter Co., meters	31.70	
Neptune Meter Co., meters	383.00	
G. H. Sampson, forcite	27.65	
Boston Woven Hose & Rub- ber Co., hose	34.73	
Davis & Farnum Mfg. Co., castings	507.20	
Mechanics Iron Foundry, cast- ings	14.00	
Coffin Valve Co., gates	937.50	
Osgood & Hart, gate boxes, etc.	819.51	
Frederick E. Jones, sketch	10.00	
<i>Amounts carried forward</i>	<u>\$56,820.75</u>	<u>\$68,943.01</u>

<i>Amounts brought forward</i>	\$56,820.75	\$68,943.01
W. H. Burbank, ribbons	2.00	
Henry R. Worthington, re- pairing pump	32.52	
Boston Lockport Block Co., repairing pump	20.70	
A. Z. Cowan, refreshments	47.25	
Henry C. Hunt, leather pieces	15.00	
Pettingell-Andrews Co., bat- teries	6.96	
Fred W. Farrar, repairing clocks	3.00	
Frederick R. Cutter, repairing clocks	6.50	
George D. Goodrich, drain pipe	17.52	
A. J. Smith & Co., plumbing	2.00	
I. H. Brown Moulding Co., lumber	12.00	
S. W. Fuller, lumber	208.92	
R. E. Lord, mason work	7.20	
J. Q. Twombly, painting	7.25	
Jenkins Bros., radiator wheels . . . . .	.58	
Thomas Hollis Co., sponges	3.50	
Thomas W. Gleeson, gong	8.40	
Sprague & Hathaway Co., frames	17.30	
Somerville Journal Co., print- ing	111.60	
Somerville Citizen Co., print- ing	238.37	
T. S. Buck, stamps	2.35	
Charles A. Small & Co., soap . . . . .	.86	
James Bartley, soap	4.08	
Milton H. Plummer & Co., medi- cine	2.55	
H. S. Garcelon, medicine	2.35	
<i>Amounts carried forward</i>	\$57,601.51	\$68,943.01

<i>Amounts brought forward</i>	\$57,601.51	\$68,943.01
J. F. Elkins, teaming	9.90	
T. F. Crimmings, teaming	247.96	
Frank W. Bickford, carpentering	34.79	
John P. Wahlstrom & Son, painting standpipe	246.25	
C. Caseau, painting	5.75	
G. A. Fellows, ties	2.00	
Philip Eberle, rubber boots	8.75	
William C. Walker, rubber boots	8.00	
W. E. Plumer & Co., hardware	394.02	
Howe & Flint, hardware	46.31	
Underhill Hardware Co., hardware	27.85	
Dominion Coal Co., coal	171.42	
Wellington - Wild Coal Co., fuel	593.29	
Horatio Wellington & Co., fuel	777.74	
Highland Coal Co., fuel	85.04	
Scrannage Bros., stable supplies	2.50	
A. M. Wood & Co., stable fittings . . . . .	.67	
H. C. Abbott, wood	54.00	
Charles Booth, wood	8.13	
J. S. Bradeen, wood	6.00	
W. H. Way, veterinary services	22.00	
John Cooper, horse	130.00	
Bancroft's Express, expressing	3.15	
E. R. Perham, expressing	1.45	
<i>Amounts carried forward</i>	\$60,488.48	\$68,943.01

<i>Amounts brought forward</i>	\$60,488.48	\$68,943.01
George T. Day, expressing . . . . .	.85	
Glines & Co., expressing . . . . .	.15	
Gilman Express Co., express- ing	4.80	
R. H. Gunsenheiser, compen- sation for damages	16.40	
Martin L. King, compensation for damages	20.00	
Charles R. King, compensa- tion for damages	1.50	
Alexander Munroe, compensa- tion for damages	6.00	
Lawrence Cotter, money re- funded	5.00	
Mary Allen, money refunded	5.00	
Elizabeth Morrison, money refunded	2.00	
George W. Prichard, money refunded	2.90	
Samuel Shaw, money refunded	19.50	
Richard B. Falvey, money refunded	9.60	
Richard R. Wyllie, money re- funded	5.00	
Emeline T. Sherman, money refunded	2.50	
Susie E. Moran, money re- funded	2.50	
Elizabeth Ross, money re- funded	5.00	
Suzella & Maidelle Cummings, money refunded	2.50	
Mary E. Kingsley, money re- funded	5.00	
Sewers, Maintenance account, repairs	56.10	
<i>Amounts carried forward</i>	<u>\$60,660.78</u>	<u>\$68,943.01</u>

<i>Amounts brought forward</i>	\$60,660.78	\$68,943.01
Builders Iron Foundry, castings	1,240.27	
	<hr/>	
	\$61,901.05	
Water Works Extension account, amount transferred	7,000.00	
Excess and Deficiency, balance to credit of account	41.96	
	<hr/>	
		<u>\$68,943.01</u>

WATER SERVICES.

CREDIT.

Cash, received of Andrew R. Lewis, additional charge on service pipe		\$8.98
Water Service Assessments, cost of services laid		3,516.24
		<hr/>
		\$3,525.22

DEBIT.

Cash, paid laborers	\$1,544.21	
Water Maintenance account, stock and labor	1,597.06	
Balance transferred	383.95	
	<hr/>	
		<u>\$3,525.22</u>

WATER SERVICE ASSESSMENTS.

CREDIT.

Cash, received of Sundry Persons, water services		\$3,516.24
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DEBIT.

Water Services, pipes laid in 1898		\$3,516.24
		<hr/>
		<u>\$3,516.24</u>

WATERING STREETS ASSESSMENTS.

CREDIT.

Cash, received of Sundry Persons		\$757.08
Watering streets, amount abated		22.80
Balance to debit in account, 1899		16.12
		<hr/>
<i>Amount carried forward</i>		\$796.00

Amount brought forward \$796.00

DEBIT.

Balance from 1897 \$796.00

WATERING STREETS.

CREDIT.

Appropriations, amount assessed , . . . \$ 3,500.00

Taxes, assessments levied 13,384.48

Cash, received of abutters . . . \$ 36.40

West End Street Railway Co.,
season of 1898 309.48

345.88

\$17,230.36

DEBIT.

Cash, paid N. C. Barker, over-
seeing \$765.00

Frank Buttimer, watering 958.85

Martin Gill, watering 952.23

Henry McAvoy, watering 982.25

A. M. Prescott, watering 991.28

J. B. Rufer, watering 984.51

R. M. Sturtevant, watering 494.52

C. P. Sanborn, watering 450.71

Thomas F. Casey, watering 453.04

T. F. Crimmings, watering 453.04

John F. Elkins, watering 906.09

Eugene Gormley, watering 906.09

Mrs. Henry Gray, watering 453.04

Henry McAvoy, Jr., watering 453.04

Philip McGovern, watering 444.79

I. L. Smith, watering 450.71

Benjamin Thomas, watering 531.99

I. H. Wiley, paint 6.03

Highways account, painting
carts 12.00

Amounts carried forward . . . \$11,649.21 \$17,230.36

<i>Amounts brought forward</i>	\$11,649.21	\$17,230.36
J. L. & H. K. Potter, watering carts and repairs	896.01	
Seward Dodge, repairs of carts	85.50	
L. A. Wright, repairs of carts	51.45	
F. Dooris, repairs of carts	1.00	
Frank W. Leavitt, repairs of carts . . . . .	.75	
J. B. Rufer, repairs of carts	6.30	
Somerville Journal Co., adver- tising	6.25	
Somerville Citizen Co., adver- tising	5.50	
Charles S. Robertson, premium of insurance	40.00	
H. Wood, keys . . . . .	.65	
Watering Streets Assessments, abatements	22.80	
City of Somerville, water	4,250.56	
	<hr/>	
	\$17,015.98	
Excess and Deficiency, balance to credit of account	214.38	
	<hr/>	
		\$17,230.36
		<hr/> <hr/>

WATER WORKS EXTENSION.

CREDIT.

Water Works Income, amount appropriated	\$20,000.00
Water Maintenance account, amount transferred	7,000.00
	<hr/>
	\$27,000.00

DEBIT.

Cash, paid laborers	\$ 5,610.95
Rufus E. Lord, contract for the construction of stable and shop	10,948.36
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<i>Amounts carried forward</i>	\$16,559.31
	<hr/> <hr/>
	\$27,000.00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 243

<i>Amounts brought forward</i>	\$16,559.31	\$27,000.00
Aaron H. Gould, services as architect	670.00	
Hatch & Farnum, floors	76.00	
W. A. Murtfeldt Co., granolithic work	615.93	
J. T. Croft, stall fixtures	40.90	
Priest, Page & Co., scale	119.00	
Frank W. Bickford, carpentering	96.10	
W. J. McCarthy, chip stone	1,014.40	
W. F. Cleveland, electrical work	174.09	
E. J. Miers & Co., pitch	3.60	
Chapman & Soden, pitch	6.00	
S. W. Fuller, lumber	117.36	
Star Brass Mfg. Co., gauges	23.25	
Braman, Dow & Co., fittings	725.06	
Howe & Flint, hardware	546.97	
Boston Lead Mfg. Co., pipe	93.46	
Neptune Meter Co., meters	1,504.55	
Hersey Mfg. Co., meters	1,238.00	
National Meter Co., meters	1,604.50	
Union Water Meter Co., meters	1,475.10	
Thomson Meter Co., meter	8.90	
Fred W. Gow, meter clamps	69.50	
City of Boston, meter fittings	160.29	
City of Cambridge, castings	2.00	
Osgood & Hart, castings	5.90	
Portland Stone Ware Co., drain pipe	20.05	
	<hr/>	
	\$26,970.22	
Excess and Deficiency, balance to credit of account	29.78	
	<hr/>	
		<u><u>\$27,000.00</u></u>

WATER WORKS, INCOME.

CREDIT.

Cash, received of Sundry Water takers	\$195,456.15
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DEBIT.

Water Maintenance account, amount appropriated	\$60,000.00	
Interest account, amount appro- priated	11,925.00	
Reduction of Funded Debt account, amount appropri- ated	22,000.00	
Commonwealth of Massachu- setts, Metropolitan water assessment of 1898	14,250.19	
Sewers, Construction account, amount appropriated	67,280.96	
Water Works Extension, amount appropriated	20,000.00	
	<hr/>	\$195,456.15
		<hr/> <hr/>

TABLE D.

BALANCES DECEMBER 31, 1898.

Cash	\$ 70,376.04	
Public Property	2,752,368.55	
Real Estate Liens	1,664.60	
Sewer Assessments	7,435.90	
Sidewalk Assessments	5,193.11	
State of Massachusetts, Burial of Indigent Soldiers and Sailors	455.00	
State of Massachusetts, Indi- gent Soldiers and Sailors	257.00	
State of Massachusetts, State Aid	10,848.50	
Taxes	355,654.19	
Watering Streets Assessments Armory	16.12	\$ 10,122.76
Excess and Deficiency		16,549.22
Fire Department, Fire Station Clarendon Hill		7,650.00
Funded Debt		1,552,000.00
Highways, Paving Webster Avenue, Fitchburg Railroad to Cambridge Line		253.25
Overplus on Tax Sales		157.13
Property and Debt Balance		1,200,368.55
Public Library		7.40
Public Library, Isaac Pitman Fund		1,000.00
Reduction of Funded Debt		9,099.63
Schoolhouse, Burns Addition		12,000.00
Schoolhouse, Ward Two		28,221.47
Schoolhouse, Prescott, Heating and Ventilating		2,483.77
<i>Amounts carried forward</i>	\$3,204,269.01	\$2,839,913.18

<i>Amounts brought forward</i>	.	\$3,204,269.01	\$2,839,913.18
Sewers, Construction	. . .		16,882.23
Sundry Persons	. . .		27,473.60
Support of Poor, Almshouse	. . .		20,000.00
Temporary Loans	. . .		300,000.00
<i>Amounts carried forward</i>	.	<u>\$3,204,269.01</u>	<u>\$3,204,269.01</u>

REPORT
OF THE
TRUSTEES OF THE PUBLIC LIBRARY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 18, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 18, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

BOARD OF TRUSTEES AND OFFICERS
OF THE SOMERVILLE PUBLIC LIBRARY, YEAR ENDING
DECEMBER 31, 1898.

TRUSTEES.

JOHN B. VIALL. CHRISTOPHER E. RYMES.
J. FRANK WELLINGTON. CHARLES H. BROWN.
CHARLES W. SAWYER. CHARLES A. WEST.
CHARLES S. LINCOLN. EDWARD C. BOOTH, M. D.
GEORGE W. PERKINS.

OFFICERS.

CHARLES S. LINCOLN *President.*
SAM WALTER FOSS *Secretary.*

COMMITTEES.

BUILDING AND GROUNDS.—Rymes, Viall and Brown.
ADMINISTRATION.— Wellington, Sawyer and Perkins.
BOOKS AND CATALOGUES.— Lincoln, *ex officio*, Rymes, Viall, Brown, West and Booth.
FINANCE.— Sawyer, Wellington and Perkins.

LIBRARIAN.

SAM WALTER FOSS.

ASSISTANT LIBRARIAN.

ADELE SMITH.

CATALOGUER.

F. MABEL NORCROSS.

ASSISTANTS.

ANNA L. STONE. MABEL E. BUNKER.
MARY J. WARREN. MARY S. WOODMAN.
ESTHER M. MAYHEW. F. EDWARD KAULA.
AUBREY A. HILLS.

JANITOR.

CHARLES A. SOUTHWICK.

RECEIPTS AND EXPENDITURES FOR 1898.

CREDIT.

Appropriation	\$7,500.00
Dog Tax	2,268.86
Fines	472.17
Catalogues	31.00
Books sold	12.76
Cash found in safe	2.45
A. Storrs & Bement (overpaid bill)	3.00
	<hr/>
	\$10,290.24

DEBIT.

Balance from 1897	\$ 139.01
Books and periodicals	2,881.18
Binding	854.95
Cards	21.75
Printing	211.60
Stationery	47.03
Salaries	4,608.35
Agencies	151.40
Furniture	160.34
Repairs	135.93
Express	201.53
Electric light	260.37
Gas	30.10
Water	26.00
Fuel	183.78
Postage	15.00
Telephone	58.52
Labor	39.75
Insurance	191.25
Supplies	24.55
Disbursements	40.45
Balance carried to 1899	7.40
	<hr/>
	\$10,290.24

CITY OF SOMERVILLE.

December 27, 1898.

TO THE HONORABLE, THE CITY COUNCIL :—

Gentlemen :— The annual report of the Trustees of the Public Library is herewith respectfully submitted.

The last year has been an eventful year in the history of the library. On March 7th, Mr. John S. Hayes, librarian and secretary of the Board of Trustees for five years, suddenly died in the midst of a career of usefulness to the community, and of honor to himself. The trustees have elsewhere expressed their sorrow at his early death, in formal memorial, but cannot refrain from again bearing testimony; as Trustees, to the great value of his services to the library, and as friends, to the high esteem in which he was held by all who knew him. By his intelligence, energy and enthusiasm the library underwent a new birth, and took her rightful place in the newly-awakened movement of the library as an educational force.

During his term of service the great work of classifying the volumes of the library, by subjects and on an approved decimal system, was carried out and a finding-list prepared. Selected collections of French and German works, and books for the blind were added. Important relations were established with the public schools, and a monthly bulletin was begun, designed to bring readers more in touch with the resources of the library and facilitate a more intelligent use of its collections—these changes tending directly to a largely increased use of the institution, and in his own words “to the laying of a foundation for greater usefulness in the future.”

Thus, in the midst of a realization of results accomplished, and in the sanguine hope of greater achievements in the future, the earnest and successful educator in two co-ordinate

and related fields, the good citizen and the loyal friend passed from his earthly work.

In looking for a successor who should appreciate the true position of the Library of To-day, as an educational factor in the community, and vigorously take up and carry on the work begun by Mr. Hayes, the Trustees sought a man who, besides being a person of ideas, energy, self-confidence, good business habits, and a broad, general education, should possess a critical taste and a deep and abiding love of literature and a large acquaintance with it, united with an enthusiasm and tact in leading others to a knowledge of its benefits and enjoyments. Familiarity with the technical work of a library, though, was deemed not essential, and a preference was given to a resident of Somerville.

The first choice of the Trustees was Mr. James F. Beard, cashier of the Somerville National Bank. Mr. Beard, a graduate of Dartmouth College, had long been a valued member of the School Committee, had always been identified with the best interests of the city, and was largely and favorably known among the citizens. Mr. Beard accepted the position only to recall his acceptance a few days later, as his services were found by the bank directors to be indispensable to the bank. The subsequent choice fell upon Mr. Sam Walter Foss, the poet, a resident of this city for the last ten years; and the Trustees believe themselves fortunate in securing a person so nearly conforming to the standard set. Mr. Foss was elected on May 16th, and in his annual report has given ample evidence of his comprehension of the needs of the library and the part it should play as an educational force in the community.

Miss Clara L. Bidwell, the capable assistant librarian, had sent in her resignation before Mr. Hayes's death, but kindly consented, at personal inconvenience, to continue her services till a new librarian was elected. In April her place was taken by Miss Adele Smith, a competent person who had received a theoretical and practical training at the Amherst Library School, and had had six months experience in this library. The efficient cataloguer, Miss Norcross, and the corps of assistants have continued in the service of the library acceptably and without change.

Those who were familiar with the work of a public library twenty-six years ago, when this library was established, will be struck with the difference in the scope and magnitude of the work now demanded of such an institution.

During the last twenty years the public library of the country has been evolving itself from a passive and conservative institution to an active and radical means of education. Formerly the object of a library was chiefly to hold a collection of books, whose jealous custodian was the librarian. Books there were for those who wished to consult them, but it was a matter of indifference whether they were consulted or not. The library of the present day, however, has been gradually taking on a new function. It not only aims more widely to unfold its treasures and to open the easiest possible road for inquiry and investigation regarding them, but apprehends that it fails to fulfil its highest mission, unless it actively goes out and offers in various ways its benefits to the people. This activity, now recognized as vital to the proper success of a public library, is incidental to the times and is analogous to that now prevailing in the commercial world. Formerly, the country merchant came to the city to buy; now, while sitting in his office he is overrun with travellers bringing their samples, and crying the superior merits of their goods. Formerly the householder sought the butcher and the grocer, and carried home his supplies himself; now, he is visited every morning, and orders are solicited and goods promptly and gratuitously delivered. Similarly, all articles of trade are skilfully brought before the public attention by samples or descriptions, and pictures, through the mails, or by liberal advertisements in the magazines and daily papers. In this great modern American movement the publishers have not lagged behind, so that multitudes of books, good, bad and indifferent, have been crowded upon us, sent out into the world with indiscriminate notices of praise. In this embarrassment of intellectual material, when books can be borrowed for the asking or bought for a song, when to read the daily papers and the insignificant fraction of the constantly appearing magazines is no light task, we become cloyed and indifferent to our advantages in the surfeit about

us. We are strongly tempted to read what first comes to hand, or what is most artfully foisted upon us, rather than to exert ourselves to make a judicious selection ; indeed, it requires no little knowledge, planning and resolution to make a fair use of our opportunities.

If this perplexity exists in the case of the adult, how much greater must it be in the young who are at the threshold of their education and experience ! Indeed, it is a matter of fact that children, when left to themselves, generally do not make a wise selection in their reading. The worthless and the bad being more prominently brought before the attention, tends to keep out the good. To meet this perplexity in the child, the modern library comes forward with its good offices, both by its own guidance and helpfulness in the institution itself and in co-operation with the schools. It establishes a children's department in the library building, where children can be entertained with suitable good reading, and it sends specially selected libraries to the schools. The children's room is made as attractive as possible, and its frequenters are made to feel that they have an ownership in the room, and that it is to some extent under their protection. Here they may consult the best juvenile magazines and take down from the shelves and examine such books as they please. In the second branch of children's work the books of the special libraries are given out by the teachers to the pupils to carry home, or are lent to be read during school hours, as a reward of good behavior, or of proficiency in school work. These school libraries naturally help to form the taste of the pupil, and carry good books into many families which have previously had no relations with the library. These methods of children's work will do much to cultivate the habit of good reading among the young, which is such an important part of an education, and cannot fail in time to bear fruit in a better citizenship.

To return to the subject of the methods employed by the library to make its collection more accessible to the public :—the principal means to this end is a comprehensive, up-to-date card-catalogue. Such a catalogue, which is a very important part of a library's equipment, should embrace not only a list of all the books contained in the library, both by subjects

and by authors, but also a ready reference to topics incidentally treated in the various books to which the titles themselves give no cue. Other methods are the issuing of monthly bulletins, the posting of special lists on topics of general or local interest, and by the use of the local papers.

Allied to the subject of affording better facilities to the reader and student is the general recognition that the resources of the library should be accessible to the public for the greatest possible number of hours in the week. How far the Somerville library has advanced in the past of the Library of To-day, as outlined above, will be seen by reference to the Librarian's report, which is appended to this report, and made a part of it. The various recommendations herein presented have been carefully considered by the trustees and have received their endorsement.

It will be our province only to touch upon and emphasize a few of the points brought out in the Librarian's report.

It may be said at the beginning that the library needs some expenditure to develop certain departments, either in which was an original deficiency or where rapid modern progress has left the department behind the times.

The want of a suitable catalogue has long been felt and has now become an urgent need. It has, indeed, been slowly progressing during the last year as the leisure of the cataloguer and the assistants from routine duties has permitted, but it should be rapidly pushed forward and finished during the coming year. This can be done only by a considerable outlay for cases and cards and by the hire of an additional assistant.

It will be seen that the library is working harmoniously and successfully with the schools. To the high schools, books are very freely supplied for reference and collateral reading. To the various rooms of the grammar schools, special libraries are sent as hitherto. This work is suffering, however, for the want of sufficient duplicates, that the schools in all sections of the city may be equally served. The children's room has been highly successful since its recent opening, but this department requires an immediate outlay to ensure its proper usefulness.

The trustees have not yet been able to throw open the doors of the library for so many hours of the week as they think

desirable. It seems unjust to the great body of the people that they should be debarred from a use of the library at almost the only times in which they have the opportunities to use it. With the means at command, however, it has not been practicable to increase the evening opening beyond the present two evenings in the week ; but it was found that very little additional expense would suffice to open the reading and reference room on Sunday afternoons. Consequently, this innovation was made in November.

In the matter of Sunday opening, the trustees believe that no arguments are necessary in justification of their action. The propriety of such a step has been recognized in this country by the general opening of the public libraries in the larger cities, and in England, by the formal opening by Parliament in 1896, of the six great libraries and museums of London, on that day. As showing the trend of thought which brought about this great innovation in England, we quote from the words of the Lord Bishop of Manchester, and of Lord Hobhouse. The former says : "I firmly believe that the cause of what is best and highest in our national life, both secular and religious, will be promoted, not hindered by our encouraging the use of public libraries and the study of masterpieces of art and the treasures of archæology and science, on Sunday afternoon, by those who, as a matter of fact, are precluded on week days from availing themselves of such opportunities."

Lord Hobhouse expresses the conviction that it makes "the use of Sunday more beneficial and more adapted to the varieties of human character and conditions . . . not adding anything appreciable to the labor which is necessary under any system to keep the world going ; not detracting from public worship, yet providing more varied mode of enjoyment, whether intellectual, or æsthetic, or muscular, to give refreshment to people differing in temperament or in condition of life."

The greatly increased use of the library in all departments, the utter inadequacy of the delivery-room, long painfully apparent to the public — a room which must soon be further encroached upon by the case of the card-catalogue — the overflowing of the children's room, and the many uses to which the

cataloguer's room has been put, have compelled the trustees to look about for necessary increased accommodations. They believe that the time has come when the library can no longer perform its proper duty to the public as an educational institution, unless its quarters are enlarged. All available space above ground is fully utilized. A large room in the basement is already in use as a storeroom, and a part of the boiler-room must ultimately be taken for the same purpose. It is believed that any serious attempt to establish a children's room in the basement, which has been in contemplation, requiring as it would important changes in the distribution of the steam-pipes, the building of a suitable entrance and the underground enlargement of all the windows, would involve an expense of several thousands of dollars, and when finished would prove to be, on the ground of health alone, an unsuitable place for children to resort to.

Therefore, after careful consideration, the trustees feel it to be their duty to recommend to your Honorable Board and to ask for an addition to the library building, as the only satisfactory way out of the difficulty, and the cheapest in the end. In the hope that this relief might be facilitated, they have provided themselves with a plan and general outline of what seems to them required. These will be presented under another communication.

If the Somerville Library is expected to do the work given a library to do to-day, the Trustees do not see how this work is to be done without larger space to do it in and greater means to do it with.

Respectfully submitted for the Board of Trustees,

CHARLES S. LINCOLN, *President.*

December 31, 1898.

REPORT OF THE LIBRARIAN OF THE PUBLIC LIBRARY.

TO THE TRUSTEES OF THE SOMERVILLE PUBLIC LIBRARY:—

I herewith submit the Librarian's twenty-sixth annual report.

Assuming the duties of the position last May as the successor of one who had made a place for himself among the most efficient librarians of the day, the responsibilities of the untried position were duly realized, and the desire to keep the library up to our standards of the past and our hopes for the future were naturally very strong. In the pursuance of this aim a number of changes have been inaugurated.

A CHILDREN'S ROOM.

The most important work of a public library is to reach the young and influence them beneficially. If this is not done, all our advanced appliances, all our highly organized systems are simply noisy machines, grinding out but little product. The youth of Somerville, both directly and through the schools, have come into very close relations to the library, and in this way its influence for good has been incalculable. This influence has been greatly enhanced the present year by the opening of a special children's room.

The old reading-room on the first floor has been remodelled, its sides have been lined with shelves which have been filled with the best juvenile books the library affords. The selection of these books have been made with great care. No books of known worthlessness can find admittance upon these shelves. Books entertaining without sensationalism, instructive without pedantry, and moral without "goody-goodness" are the ones that have found a place in our new children's

room. The best biographies, the best books of travel, the best books on nature study, the best selected juvenile fiction, the best juvenile periodicals, a good assortment of picture books for the very young, make up the collection. The books are free of access to all occupants of the room, and can be read in the room or taken out on a regular library card. The success of the room has been great, even to embarrassment. Since its opening the utter inadequacy of the library to accommodate its patrons has once more been strikingly emphasized. After school hours on school days, and on Saturdays and Sundays, the room is sometimes suffocatingly crowded. The children of the city appreciate such a room as this so thoroughly that it is a matter of great regret that we are not able at present to supply them with a room sufficiently spacious for their comfortable enjoyment.

The books placed upon the shelves of this new children's room are almost exclusively duplicates. Unless we have more than one copy of a book we have allowed it to remain upon the shelves of the stack room, and we have not deemed it right to rob the other children of the city of its reading for the sake of giving it to the children who visit the children's room. Consequently the number of books in the children's room is not as large as might be desired. I recommend that two hundred and fifty dollars be used during the coming year for the purchase of new books for this room.

A NEW READING ROOM.

The changing of the old reading room into a children's room necessitated the changing of the study and reference room upstairs into a general reading room. This room is the largest and most sightly room in the building, and the public has been greatly appreciative of the more commodious accommodations it furnishes. This is attested by the greatly increased numbers that frequent it. Since this room has been made into a general reading room its average daily attendance has been seventy-six. Before the change the attendance was twelve. So this room, although twice the capacity of the old reading room, is at times seriously overcrowded. This congestion has been so

great at seasons that the exclusion of children from the room has been contemplated. But such a step should not be taken without deliberation. A child who is really interested in the books and periodicals in this room should not be debarred from the privilege of using them. To do so would be to stunt the development of a growing mind. A boy who desires to read the literature of a man should no longer be treated like a child.

A ROOM FOR QUIET STUDY.

The public documents, which were formerly stored in the little room over the hallway, have been removed to a room that has been fitted up for them in the east wing of the basement. Since the removal of the documents the room has been used as a room for quiet study by those desirous of making special investigations. When the room is not occupied it can be obtained by any one for this purpose by applying to the attendant in the reading room. This room should be supplied with a better table.

By these recent changes the rooms in the second story of the library are used to a greatly increased extent; and the time may come when the second floor will be utilized to something like the extent of the first floor. In our present overcrowded condition, it is desirable that the people should be distributed as evenly as practicable throughout the building.

A CARD CATALOGUE.

The need of another catalogue has been felt for some time. Our present finding-list was published in 1895, when the number of books in the library was less than thirty thousand. The number has now increased to over forty-four thousand, and thus nearly fifteen thousand books now in the library are not mentioned in any printed catalogue, or in any single catalogue of any kind. Early in the summer it was voted by your Board to prepare a new complete card catalogue, with each book mentioned under its author, under its title and under its subject, with all the cross references necessary to make it easily accessible to the average reader. The work of preparing this catalogue progresses slowly, and as it must be done by the cataloguer and

her assistants in addition to the regular work of her department, much time must necessarily elapse before the work is completed. The need of such a catalogue is so apparent and urgent, the securing of some extra help while the making of the catalogue is in progress seems to me desirable.

CIRCULATION.

During the past year the number of volumes taken out has been 212,817. Of these, 18,874 were distributed through the West Somerville agency, 8,986 through the agency at East Somerville, and through the South Somerville agency, 4,545. The number of books distributed through the grammar schools has been 10,755. The aggregate increase of the library's circulation during the year has been 19,326.

GIFTS.

The Library has received the following donations of books during the year :

LIST OF DONATIONS, 1898.

	Vol.	Pamph.	Period.
Adams, Mrs. M. L.	1		
American Irish Society	1	1	
Ashton, W. H.		1	
Austin, A. O.	1		
Barnes, W. A.		1	
Benton, J. B.		1	
Berry, Charles W.	16		
Boston, City of	6		
Boston Book Co.			5
Boston Transit Commission	1		
Cambridge, City of	1		
Chandler, L. B.	1		
Chelsea, City of	1		
Christian Register			52
Christian Science Journal			12
Christian Science Weekly			12
<i>Amounts carried forward</i>	29	4	81

LIST OF DONATIONS.— *Continued.*

	Vol.	Pamph.	Period.
<i>Amounts brought forward</i>	29	4	81
Codding, W. M.	1		
Comey, Mrs. E. L.	5		
Cook's Excursionist			6
Crain, C. H.	2		
Creighton, Mrs. H. R.		1	
Cummings, S. S.	1		
Daughters of Maine Club, Somerville		4	
Davis, W. A.	1		
Detroit, City of		1	
Dodge, Martin	2		
Dolbear, A. E.	1		
Eliot (Me.) Historical Society	1		
Elliot, Charles D.	1	1	
Elliot, Mary E.	1		
Food, Home and Garden			8
Foss, Mollie	6		
Foss, Sam Walter	3		26
Foss, Saxton C.	4		
Goldsmith, B. W.	7		
Goss, George H.	2		
Green, S. A.		1	
Hapgood, Warren	1		
Hayes, John S.	114		
Hayes, Mrs. John S.		1	
Hichborn, William	1		
Holt, Harry	1		
Home Market Bulletin			12
Howe Memorial Press	13		
Johnson, J. B.		1	
Lake Mohonk Arbitration Conference		1	
Land of Sunshine, Los Angeles, Cal.			12
League of American Wheelmen			52
Lee & Shepard	1	3	
Libbey Glass Co.	1		
Lincoln, Charles S.	2	1	
Literary News			12
Loring, G. F.	2		
<i>Amounts carried forward</i>	203	19	209

LIST OF DONATIONS.— *Continued.*

	Vol.	Pamph.	Period.
<i>Amounts brought forward</i>	203	19	209
McGlenan, E. W.	1		
Manifesto			12
Massachusetts, State of	48		
Massachusetts Prison Association		1	
Massachusetts Public Library Commissioners		1	
Meadville (Pa.) Theological School		1	
Medical Record			1
Minneapolis (Minn.), City of	1		
Morse, Alice W.	4		
Neily, S. T.	1		
New England Anti-Vivisection Society			12
New York, State of	3		
New Philosophy			7
Nicolls, W. J.		1	
Olmstead, D. H.	1		
Our Outlook			24
Palmer, C. F.	1		
Parsons, Frank	1		
Parsons, J. R.	1		
People			52
Perkins, G. W.	2		
Perry Mason Co.		1	
Plummer, E. M.		1	
Public Libraries:—			
Allegheny, Pa.		1	
Amesbury			1
Baltimore, Md., Enoch Pratt Library		1	
Bangor, Me.		1	
Boston		1	12
Brookline		1	5
Brooklyn, N. Y.		1	
Brooklyn, N. Y., Pratt Institute		1	
Burlington, Vt.		1	
Cambridge		1	10
Chelsea		1	
Cincinnati, O.		1	
<i>Amounts carried forward</i>	267	36	345

LIST OF DONATIONS.—*Continued.*

	Vol.	Pamph.	Period.
<i>Amounts brought forward</i> . . .	267	36	345
Public Libraries (<i>Continued</i>):—			
Clinton		1	
Concord		1	
Council Bluffs, Ia.		1	
Dedham		1	
Detroit, Mich.		1	
Dover, N. H.		1	
Everett		1	
Fall River		1	
Fitchburg		1	6
Hartford, Conn.		1	5
Jersey City, N. J.		1	2
Lancaster		1	
Lawrence		1	4
Leeds, England		1	
Leicester		1	
Littleton, Reuben Hoar Library		1	
London, Eng., Clerkenwell Library		1	
Lowell			3
Lynn		1	3
Malden		1	
Manchester, N. H.		1	
Medford		1	
Melrose		1	
Milwaukee, Wis.			2
Minneapolis, Minn.		1	
Natick		1	
New Bedford		1	8
New Haven, Conn.		2	12
New London, Conn.			4
New York, N. Y.			12
Newark, N. J.		1	10
Newton		1	
North Adams		1	
Northampton		1	
Norwich, Conn., Otis Library		1	8
Paterson, N. J.		1	6
<i>Amounts carried forward</i>	267	69	430

LIST OF DONATIONS.— *Continued.*

	Vol.	Pamph.	Period.
<i>Amounts brought forward</i>	267	69	430
Public Libraries (<i>Concluded</i>):—			
Peabody		1	
Peoria, Ill.		1	
Philadelphia, Pa.		2	
Pittsburgh, Pa., Carnegie Library		1	
Pittsfield		1	1
Portland, Me.		1	
Providence, R. I.		1	12
Providence Athenæum Library			8
Quincy, Thomas Crane Library	1	1	
St. Louis, Mo.		1	
St. Louis Mercantile Library		1	
Salem		2	10
San Francisco, Cal.		1	10
Scranton, Pa.		1	2
Springfield		1	10
Syracuse, N. Y.		1	
Taunton		1	
Waltham		1	9
Winthrop		1	
Woburn		1	
Quinn, J. C.	1		
Radiator, Somerville High School			10
Raymond & Whitcomb, Publishers		2	
Reform Club Committee	1		
Rock, Lulie M.	3		
Sanborn, Helen J.	1		
Schurman, Pres. Cornell University	1		
Scot's Charitable Society	1		
Scott, Rev. W.		8	
Simms, Joseph	1		
Somerville, City of	2		
Somerville Historical Society		4	
Somerville Journal			104
Towle Manufacturing Co.	1		
Tuftonian, Tufts College			5
<i>Amounts carried forward</i>	280	104	611

LIST OF DONATIONS.— *Concluded.*

	Vol.	Pamph.	Period.
<i>Amounts brought forward</i>	280	104	611
Tufts Weekly, Tufts College			36
Turner, Walter F.	1		
United States	27		82
Walker, Col. E.	1		
Washington News Letter			4
West, C. A.	1		
West & Jenny			5
Whitaker, J. E.	1		
Willis, C. W.	2		
Woman's Journal			52
Wood, Mrs. A. H.	1		
Woodman, Mary S.	1		
<i>Totals</i>	315	104	790

As will be seen by the above table, the library has received gifts of books during the past year of considerable value. People are growing more into the habit of giving books to their public libraries, although the habit is not as widespread as it might easily be. There are thousands of books in private libraries that after the first reading are never read again. They may be intrinsically valuable, but they are practically useless. They are lumber, waste, superfluous, sealed as securely as the books mentioned in the Apocalypse. These books might do a world of good if they were in a public library where the people could read them. The public library should by no means supersede private collections, but every owner of a private collection, after he has used a book and it has served its purpose, can do nothing better than to present it to a public library, that the same purpose may be served repeatedly with other people. It is a tremendous waste of intellect and a woful misapplication of brain when a book capable of teaching, delighting and inspiring thousands is simply given one careless reading by one careless man. If all the owners of books in

every community, instead of hoarding their volumes after they are once through with them, should present them to their public libraries, the sum of human intelligence in those communities would be appreciably increased. If such a practice should become common in Somerville, it would not take many years for such a collection of books to be gathered together as could not be easily matched in other communities of equal size. It is true that in some cases a vast number of duplicates would be donated ; but these duplicates could easily be exchanged for other books, and thus prove real accessions to the library. The best book in the world is no good in the world, if nobody in the world reads it. The best disposition that can be made of such a book is to put it in the public library, where the largest possible number of people can obtain it.

A good library is justified in expecting other gifts, also. There are very few public libraries that are supported exclusively by the appropriation of the towns or cities in which they are situated. Many of them have, indeed, been built by private gift, and afterwards generously endowed by private bequests. The Somerville Public Library has not been fortunate in this respect. The Pitman fund of one thousand dollars is the only considerable money gift it has ever received. It is well for our philanthropic people to know that there are many lines, some of which are outlined in this report, along which the library could develop if the necessary means were at its disposal. In fact the library has now reached a point in which its onward course of almost unparalleled development must be retarded unless it is put in possession of largely increased means. It should be our aim to place and keep the library in the front file of the progressive institutions of its kind. Our sanguine hopes that means to this end will be furnished is based upon the public spirit of our citizens. It is true local patriotism for a public library to be somewhat audacious in soliciting gifts, and he who responds to the solicitation is more patriotic than the solicitor in the proportion that it is more blessed to give than to receive.

LIBRARY AGENCIES.

During the present month a new library agency has been established at the drug store of Mr. Herbert E. Bowman at

Magoun square. Our other three agencies are doing a steadily increasing work, and it is anticipated that this new agency will furnish convenient library facilities to a large number of people in the vicinity. There is still room for one or more agencies which could be established in localities so that they would not interfere with the work of the agencies already established. The librarian, in the time of my predecessor, was given authority to establish an agency on the southern side of the Fitchburg Railroad, but no place entirely satisfactory, on the score of location and desirability, has yet been found for this purpose.

SUNDAY OPENING.

Since early in November the two reading rooms of the library have been open to the public on Sundays from 3 to 7 P. M. That this new privilege has been greatly appreciated has been evidenced by the great number of visitors to the library during those hours. At times both rooms have been filled considerably beyond their comfortable capacity.

EVENING OPENING.

In opening the library on Sundays, it seems to me we have done an excellent but incomplete work. No library as large as our own, in a city as large as Somerville, should be closed during any evening of the week. A public library should be opened to the public when the public wants it opened; and of course there are no other hours of the twenty-four when a great proportion of our citizens can find an opportunity to visit the library at all. To keep the public library closed at the very hours when the public most wishes it open is not according that respect to public opinion demanded in a democratic community, and is defeating the very aim for which a public library is instituted. It is shutting the public from the books it has paid for, during the hours it most desires access to them. People would doubtless be less inconvenienced to have the library closed forenoons than to have it closed evenings. But a library in a city of nearly sixty thousand inhabitants should be opened at least from nine in the morning until nine

at night. While I earnestly recommend evening opening, I feel strongly that it should not be attempted with our present force. None of the attendants should be required to work during the entire day and the entire evening, too. A couple of extra attendants should be hired for evening service. This could be done without a largely increased expense.

THE LIBRARY AND THE SCHOOLS.

There is a very close co-operation between the library and the schools, and many of the teachers are enthusiastic in their appreciation of the good the library has done their pupils. During the past year we have sent to the schools 10,755 volumes to be taken out by the pupils by card, and 13,265 to be kept in the schools as school libraries. These school libraries, which have usually consisted of twenty-five books to a room, are as a rule selected by the teachers themselves, who naturally choose the books they think most suitable to the ages and requirements of their scholars. I am sorry to say that our facilities for supplying these requests of the teachers are inadequate. The various teachers naturally ask to a great extent for the same books. Consequently the first applicants are approximately supplied with the books they ask for and the later applicants, in some instances, have not been able to obtain a single volume they requested. These latter applicants, consequently, are not to be blamed for thinking that our system of giving out school libraries is something of a farce. We now know to a considerable degree of exactness just what books are liable to be called for: and these books should be purchased by the library in sufficient numbers to supply the legitimate demand. At least two hundred and fifty dollars should be expended in this way at once, and at least one hundred dollars a year should be expended regularly for this purpose.

BULLETINS.

Eleven bulletins have been issued the present year, the September and October numbers being brought out as a single issue. A new plan has been adopted in the bulletin, of giving short reviews of the most notable books purchased during the

month. No book receives such a notice unless it is regarded as a real contribution to human thought. In this way the attention of the public is called to the books of real excellence, and the best of our current literary product receives a wider reading. It is hoped to make these little reviews even more a feature of our monthly bulletins during the coming year.

MUSIC.

The library already contains a fair number of books about music and musicians, but of music itself it has no supply whatever. This is a lack that should be filled, and a musical department should be started. If such a department existed in the library, I believe it would be patronized to as large an extent as any other division of the library, with the exception of the fiction division. A thoroughly equipped musical department would cost a considerable amount of money; but it should be a matter of gradual growth, as has been all the other divisions of the library. For the sum of two hundred dollars a good musical nucleus could be established, which by gradual accretions would develop into a symmetrical musical outfit. For the benefit of the large number of music-lovers in Somerville, I trust that the means may be given us to start such a department early in the coming year.

STATISTICS.

CIRCULATION.

Total number of books delivered	212,817
Through agency at West Somerville	18,874
" " " East Somerville	8,986
" " " Somerville ave.	4,545
" grammar schools	10,755
Special libraries, including high schools	13,265

BOOKS WITHDRAWN.

Number of books worn out	365
" " " lost by general readers	17
" " " lost in schools	10
<i>Amount carried forward</i>	<u>392</u>

<i>Amount brought forward</i>	392	
Number of books burned by order of Board of Health, etc.	5	
Total number withdrawn	397	
Total number of books withdrawn to January, 1898 .		3,194
“ “ “ “ “ “ January, 1899 .		397
		<hr/>
Total		3,591

BOOKS ADDED.

Accession number, January 1, 1898		40,902
“ “ January 1, 1899		44,307
Total number of books added during 1898		3,405
New books to the library	2,490	
Duplicates in the library	915	
Total number withdrawn		3,591
Total number of books in the library		40,822

BINDING.

Volumes rebound	1,801	
Periodicals	202	
Paper-covered books	108	
Pamphlets	76	
		<hr/>
Total for year 1898		2,187

ADDITIONAL ROOM.

The time has arrived when the need of increased room in the library has become very urgent. Our work in many of our departments is hampered exceedingly, simply for the lack of adequate space in which to perform it. We have no accommodation whatever for a packing department, and our boxes for the schools and for our agencies, our special libraries, and all our books sent to and received from the bindery, we are obliged to pack and unpack very largely in the cataloguer's room, which also, in addition to its legitimate purpose, serves the double use of an Art room and a room for our local Somerville books. As a matter of fact, the art collection is very seldom accessible to the public, and its books remain on our shelves almost absolutely unused. The public is practically prohibited

from access to them. As a matter of simple justice, this state of affairs should be remedied.

Perhaps the most serious problem with which the library has to grapple is the utterly inadequate size of its delivery room. This is, at times, cruelly overcrowded. The congestion is so great that visitors have serious difficulty in crowding forward to the delivery desk to return their old books or receive their new ones. The crowd has been so dense at times as to result in actual stoppage of all the library machinery. The books have been ready to deliver to the card-holders, their names have been called, but no one, on account of the crowd, has been able to come forward and receive his books. In one instance, nothing could be done until some one penetrated the crowd from the rear, and standing before the delivery desk, received the books and handed them out over the heads of the people. This is a condition of affairs that, of course, should not be allowed to continue.

I am persuaded that the normal growth of the library is being seriously checked by this condition of affairs. Many people have emphatically expressed their reluctance to come to the library at all on account of the crowd, the delay, and the vexation to which they are subjected. In view of all this, it seems to me that an addition of considerable size should be made to the library. This addition should make possible a greatly enlarged delivery room, a good packing room, a much larger children's room, an art room, an enlarged "Americana" room, several small rooms for private study, another stack room as large as our present one, and a moderate-sized public hall, to be used for lectures on educational subjects, to be given not only under the auspices of the library, but by the various local literary and educational clubs to whom the trustees may see fit to grant such privileges. The need of these increased facilities is so apparent, and so necessary to the progressive development of the library, that we cannot too urgently ask for a special appropriation, sufficient to make the accommodations needed.

SYMMETRICAL DEVELOPMENT.

During the past few months a considerable attempt has been made toward a symmetrical development of the library. A

librarian should be especially cautious in allowing his own personal tastes to influence him unduly in the purchase of books. And it is very doubtful if any one's taste is catholic and comprehensive enough to render him competent to select the books for a general public library. Competent specialists in the various departments of human thought should be called in to assist him. This policy has been adopted during the past few months, and will be even more thoroughly carried out in the future. Great credit is due, among others, for important advice in their respective lines of research, to Prof. A. E. Dolbear and to Prof. G. T. Harmon of Tufts College. The library owes a great debt to many of the clergymen of the city, most of whom have shown the best of good will towards the library, and have offered it many valuable suggestions. The teachers of the city, coming as they do in direct contact with youthful minds, are better qualified to know the needs of these minds than any other class of people; and it is no exaggeration to say that the services of the teachers have been invaluable.

In our desire to keep the library up to a well-rounded symmetry, it must not be forgotten that our efforts must be continuous. The most symmetrical library in the world will not stay symmetrical for a period of twelve months. Truth grows old more rapidly than it once did; or, rather, "Time makes ancient truth uncouth" more quickly than in previous generations. Most books written on electricity ten years ago are made worthless by subsequent discoveries. Books on geology, on chemistry, on physics, on political economy or sociology, which were written ten years ago, are not much more accurate for the users of to-day than a calendar, an almanac, or a diary written for ten years ago. There has been a quickening of human thought, even during the lifetime of men still young, such as the history of the race has never known before. Professor Wallace holds that there has been greater progress during the present century than during all the centuries that have preceded it. So there has perhaps been as great progress during the past decade as during the nine previous decades of the century. If this is so, a book ten years old along any line of investigation is antiquated and largely obsolete. Such books

are valuable historically, as they show the views held by men at the time they were written ; but if we give them out with the implied inference that they express absolute truth, we are guilty of the propagation of outworn errors. Consequently, I believe a much larger sum of money than has hitherto been spent for such a purpose should be expended each year in buying books that embody the very latest results of modern study. When thought travels by express we should not try to keep abreast of it by stage. It is the business of a public library to keep abreast of it ; and it ought to spare no expense in purchasing the right conveyance to do so.

In our efforts toward a symmetrical development of the library, I do not believe we should confine our endeavors exclusively to the accumulation of books. In towns where there are no museums the library should be the natural receptacle for the accumulation of all that is illustrative of art, science and research of all kinds, especially of such collections as possess a local interest. If there is no observatory in town, no local benefactor with astronomical tastes should be deterred from presenting his city a telescope. The library, in the absence of other institutions, is the guardian of all such gifts. It does not exceed its mission if it gathers within its walls all that is educative in all departments of human thought ; and it is a matter of little moment whether that thought is embodied in a book, a statue, a picture, a reconstructed fossil, a model of a locomotive, an electric battery, or a scientific chart.

BUSINESS PRINCIPLES AS APPLIED TO THE LIBRARY.

If I may be pardoned a somewhat radical suggestion, but one in which I thoroughly believe, I would recommend that the library should make special direct efforts to increase the volume of its business just as all successful business houses do. The time has long since passed by when any private business can even exist if it simply establishes itself and waits for the people to come to it. The church, without a missionary spirit, is as tepid as the old church of Laodicea. The public schools are missionary to the extent that they are compulsory. The

public library is coming more and more to be an adjunct of the public schools, and while I would not, of course, advocate the making of the use of the library compulsory, I would suggest that its privileges be respectfully offered to every family in the city. The library should not wait complacently for the people to come to it: it should go to the people. The way to reach men is to go where they are. It is not enough for us to say, "The doors of the library are open, all who will can come." All who WILL NOT are the ones we most desire. The people who are fond of books will come, and we gladly welcome them. But a judicious fisher of men does not angle for the fish that are already caught. It is the people who are not fond of books that we desire to reach. The public library has done a great work, but it has only faintly begun, as yet, to realize the magnitude of its mission. It should not rest satisfied until it has made the reading of books as general as the reading of newspapers. To this end I believe that every family in Somerville should be offered a library card. If the library is a good thing, and we most potently believe it is, why should we not offer this good thing to men and women who are too careless to learn this truth for themselves. If we should offer a card to every family in Somerville and to every member of every family that, according to our rules, are now entitled to cards, it would be the dawning of a new intellectual day to thousands in this community. If the undertaking is of too great a magnitude to be carried into immediate effect, I would like to see it tried as an experiment in some single precinct of the city. Let a door-to-door canvass be made in some such precinct, and our regular application blanks be left with all eligible persons who desire them. A trial of this method could thus be made in a comparatively small section, which would give us data to enable us to determine concerning the practicability for a larger application. I earnestly recommend this experimental trial.

THE LIBRARY AS AN INSPIRATIONAL FORCE.

Perhaps sufficient attention is paid to making the library a highly organized and smoothly working machine. It should be, of course, a machine, and the more delicately adjusted its parts

may be, the better. But a machine does not exist simply for the sake of running smoothly. If it runs smoothly and gives out no product, it is simply a mechanical sarcasm. A library has no especial reason for self felicitation because it gives out a large number of books. It may give out a very large number of books, and still do more harm than good. The great question is: Is it grinding out a product of enlightened citizenship? Is it transforming the community into intellectual, thoughtful, better-equipped, more roundly developed men and women? If it is not, its activities are useless contortions, and the tax-payers have a right to protest against its further existence. If it does not do all this, how shall we abide the thunder of their righteous wrath? The library probably cannot make all its visitors appreciative of the great master minds and the lords of thought whose works are on its shelves. But if it does not, in the aggregate, raise the standard of literary taste in the community; if it does not help to train up a generation of lovers of good books; in short, if it does not make men wiser and better, then the noise of its complicated machinery is an ironic laugh, far from musical for us to hear. Every effort has been made during the past year to make the library an uplifting and an inspirational agency. We have tried to get into the hearts of the young through the pathway of human sympathy. We have tried to create an atmosphere of welcome. The tomb-like stillness and death-like hush that sometimes prevail in libraries have not been encouraged. The young people and all others whom we could help have been encouraged in every way to seek personal interviews with the librarian and all other members of the staff; and suggestions along the lines of each one's aptitudes have been offered to the extent of our limitations. By personal interviews we have tried to draw out the dawning perceptions of the young and help them to help themselves in the building up of a well-rounded intellectual equipment. We trust that, as a result of our sowing, a sturdier crop of mental and moral men will grow upon these hillsides.

CONCLUSION.

It would not be right to close this report without testifying to the faithfulness and cheerfulness with which all the members

of the library staff have performed their duties. Their work is done at times under many vexations and annoyances, but it is always done with patience ; and no complaint of discourtesy on the part of a single member of the staff has ever been brought to my notice. Their work has been done with thoroughness ; and what is more important, if possible, with graciousness and a real love for the work itself.

For the very generous co-operation of your Board, for your willingness to grant all powers within your gift toward the furtherance of the progress and efficiency of the library, I cannot be too grateful.

Respectfully submitted,

SAM WALTER FOSS,

Librarian.

REPORT
OF THE
SUPERINTENDENT OF ELECTRIC
LINES AND LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 26, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF SUPERINTENDENT OF ELECTRIC LINES AND LIGHTS,
CITY HALL, January 2, 1899.

TO THE HONORABLE, THE MAYOR, AND THE CITY COUNCIL.

Gentlemen:—I herewith submit my third annual report for the year ending December 31, 1898.

During the year 68 inspections of electric light and power-wiring of buildings have been made, many of which necessitated several calls where alterations were deemed necessary for safety.

An ordinance was approved December 24, 1897, requiring all persons wiring buildings or making any changes in wires already in use to notify the Superintendent of Electric Lines, that he may be given opportunity to inspect such work, and providing that the Electric Light Company shall not connect any building to their service without written permission from him. By this means all wiring must pass his inspection and approval before any current is furnished.

This department has put in service the electric lights in the English High School. Many changes had to be made in the wiring, and some 30 lights were added. All repairs of electric apparatus in public schools and buildings have been made by this department, the committee on public buildings paying for stock alone.

The fire-alarm system is in excellent condition, having been thoroughly rebuilt and inspected since the storm of January 31, which completely crippled this branch of the service, 15 boxes and 5 gongs being burnt out and several miles of wire and poles blown down. During the year 7 new boxes have been added, located as follows: 218, Skehan and Hanson streets; 219, Oak and Houghton streets; 336, Bartlett and Medford streets; 337, City Stables; 426, Lowell and Albion

streets; 428, Morrison and Clifton streets; 446, Chester and Orchard streets.

Ladder 2 and Hose 2 have been equipped with electric lights, the work having been done by this department. All fire department stations are now so equipped that on the first blow of the fire alarm the house is instantly lighted. The central fire station has been provided with carbon lightning arresters, which reduce the danger of burn-outs from thunder storms to a great extent.

The fire-alarm system now comprises 7 tower bell-strikers, 26 gongs, 7 visual indicators, 18 tappers, 6 relays, 86 boxes, and 320 cells storage battery. In addition to this there are 34 tappers on open circuit, 260 cells battery, and about 12 miles of wire. These tappers are used to notify the call men of the fire department, both in connection with the bell alarm and on a still alarm.

This department has the care of about 90 miles of wire, including fire alarm, police, and telephone wires.

The local telephone service has been equipped with new transmitters and receivers, without additional cost to the city, and is giving excellent service.

I would recommend the purchase of more fire-alarm boxes, as our city is growing very fast and new territory is being constantly built up. We should also have another circuit to West Somerville, as the present circuits are fast becoming overloaded, and in case of a break too much territory is left uncovered. I would also recommend the purchase of a suitable wagon for this department, in which we may carry our ladders and other appliances for emergency service, as we are often called to look after broken wires of all kinds, including high tension and trolley wires, and by removing them from the street, lessen the liability of accidents. The wagon at present in use is wholly unfitted for such service and is a constant source of danger to the men who use it.

I would also strongly urge the necessity of placing the wires underground, which necessity was clearly demonstrated by the storm of last February. The cost of replacing poles and wires at that time, to say nothing of the danger to the city

from fires, would have paid for several miles of underground service.

The police signal system has received the usual careful attention and is in good order. During the year a new register was purchased and two boxes have been added. Much of the old outside wire has been replaced by new, as it was found necessary from time to time. The lines are in fairly good condition, but during the coming year more old wire should be replaced by new, to give the best service.

STREET LIGHTING.

During the year 117 Welsbach lights have been added, both gas and naphtha. They have given general satisfaction, and many streets and places which were without light have been lighted by them. By using these lights we were enabled to move several arc lights to locations where they can be used to better advantage. There still remain many streets unlighted, which should receive attention during the coming year. Most of these can be satisfactorily lighted by either Welsbach or 32-candle power incandescent lights, at an expense of \$30 each light, per year.

The locations of many arc lights have been changed, where it was thought the service could be improved by so doing.

The Electric Light Company has been quite prompt in replacing faulty lamps and has kept its lights up to a fairly good standard. The Superintendent will gladly receive reports from any citizens of lamps not burning as they should, and will take steps to have the trouble remedied at once.

In closing, I wish to express my thanks to His Honor, the Mayor, and the members of the city council for consideration shown this department the past year; also to the chief engineer of the fire department for assistance rendered during the storm of January 31, with which we were enabled to get our circuits in working order very quickly; also to the chief of police for courtesy shown this department during the year.

Yours respectfully,

EDWARD BACKUS,

Superintendent of Electric Lines and Lights.

REPORT
OF THE
SCHOOL COMMITTEE.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 26, 1899.

Referred to Committee on Printing, to be printed in the annual reports in
concurrence.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

SCHOOL COMMITTEE ROOMS,
January 10, 1899.

TO THE CITY COUNCIL OF SOMERVILLE.

Gentlemen:—At a meeting of the Board of School Committee held December 30, 1898, it was

Ordered, That the Annual Report of the Superintendent be adopted as the Annual Report of the Board of School Committee, it being understood that such adoption does not commit the Board to the opinions or recommendations made therein; that the same be referred to the City Council, with a request to incorporate it in the annual reports; and that 1,000 copies be printed in separate form.

Respectfully,

G. A. SOUTHWORTH,
Sec'y of School Board.

SCHOOL COMMITTEE, 1898.

HON. ALBION A. PERRY, Mayor, Chairman, *ex officio*.
FRANCIS M. WILSON, President of the Common Council,
Vice-Chairman, *ex officio*.

MEMBERS.

WARD ONE.

		Term expires January
GEORGE S. POOLE,	46 Mt. Vernon street.	1899
SANFORD HANSCOM,	1 Webster street.	1900
S. NEWTON CUTLER,	28 Flint street.	1901

WARD TWO.

HERBERT A. CHAPIN,	41 Walnut street.	1899
JAMES F. BEARD,	17 Prospect Hill avenue.	1900
ALVAH B. DEARBORN,	34 Bow street.	1901

WARD THREE.

QUINCY E. DICKERMAN,	85 Central street.	1899
GEORGE W. W. WHITING,	280 Broadway.	1900
FRANK H. HARDISON,	192 Central street.	1901

WARD FOUR.

GILES W. BRYANT,	296 Elm street.	1899
MARTIN W. CARR,	74 Craigie street.	1900
GEORGE A. MILES,	249 Elm street.	1901

STANDING COMMITTEES, 1898.

ENGLISH HIGH SCHOOL.—*Dickerman*, Poole, Carr, Hanscom, Chapin.

LATIN HIGH SCHOOL.—*Hardison*, Beard, Dearborn, Cutler, Bryant.

EAST SOMERVILLE DISTRICT.—*Hanscom*, Cutler, Poole.

PROSPECT HILL DISTRICT.—*Dearborn*, Beard, Chapin.

WINTER HILL DISTRICT.—*Whiting*, Hardison, Dickerman, Perry, Wilson.

SPRING HILL DISTRICT.—*Carr*, Miles, Bryant.

WEST SOMERVILLE DISTRICT.—*Miles*, Carr, Bryant.

ADDITIONAL SCHOOL ACCOMMODATIONS.—*Perry*, Poole, Dearborn, Miles.

EVENING SCHOOLS.—*Dearborn*, Dickerman, Bryant, Hanscom.

FINANCE.—*Poole*, Carr, Wilson, Beard.

INDUSTRIAL EDUCATION.—*Cutler*, Dickerman, Chapin, Carr.

MUSIC.—*Chapin*, Whiting, Cutler, Miles.

PRIVATE SCHOOLS.—*Whiting*, Miles, Dearborn, Poole.

REPAIRS.—*Carr*, Whiting, Poole, Dearborn.

RULES AND REGULATIONS.—*Miles*, Chapin, Whiting, Cutler.

SALARIES.—*Bryant*, Beard, Hanscom, Hardison.

SUPPLIES.—*Beard*, Bryant, Hardison, Poole.

TEXT-BOOKS AND COURSE OF STUDY.—*Hanscom*, Hardison, Chapin, Cutler, Beard, Miles, Bryant, Dickerman.

SCHOOL COMMITTEE, 1899.

HON. GEORGE O. PROCTOR, Mayor, Chairman, *ex officio*.
CHARLES A. GRIMMONS, President of the Common
Council, Vice-Chairman, *ex officio*.

MEMBERS.

WARD ONE.		Term expires January
SANFORD HANSCOM,	1 Webster street.	1900
S. NEWTON CUTLER,	28 Flint street.	1901
GEORGE S. POOLE,	46 Mt. Vernon street.	1902
WARD TWO.		
JAMES F. BEARD,	17 Prospect Hill avenue.	1900
ALVAH B. DEARBORN,	34 Bow street.	1901
FRED W. GILBERT,	101 School street.	1902
WARD THREE.		
GEO. W. W. WHITING,	280 Broadway.	1900
FRANK H. HARDISON,	192 Central street.	1901
Q. E. DICKERMAN,	85 Central street.	1902
WARD FOUR.		
MARTIN W. CARR,	74 Craigie street.	1900
GEORGE A. MILES,	249 Elm street.	1901
MRS. HENRIETTA B. H. ATTWOOD,	18 Herbert street.	1902

The Board holds its regular meetings on the last Monday evening of each month at 8 o'clock.

SUPERINTENDENT OF SCHOOLS.

GORDON A. SOUTHWORTH.

Office : City Hall Annex, Highland avenue.

Residence : 40 Greenville street.

The Superintendent's office will be open from 8 to 12 and from 1.30 to 5 ; Saturdays, 8.30 to 10. His office hours are 4 to 5 on school days and 8 to 9 on Saturdays.

Office telephone, 234-2 ; house telephone, 12.

ELEANOR L. HANNAY, Superintendent's clerk.

STANDING COMMITTEES, 1899.

ENGLISH HIGH SCHOOL.— *Carr*, Hanscom, Dickerman, Poole, Gilbert.

LATIN HIGH SCHOOL.— *Beard*, Dearborn, Cutler, Hardison, Miles.

EAST SOMERVILLE DISTRICT.— *Cutler*, Poole, Hanscom.

PROSPECT HILL DISTRICT.— *Beard*, Dearborn, Gilbert.

WINTER HILL DISTRICT.— *Hardison*, Dickerman, Whiting, Grimmons.

SPRING HILL DISTRICT.— *Carr*, Miles, Mrs. Attwood, Proctor.

WEST SOMERVILLE DISTRICT.— *Miles*, Carr, Mrs. Attwood.

ADDITIONAL SCHOOL ACCOMMODATIONS.— *Proctor*, Hanscom, Beard, Hardison.

EVENING SCHOOLS.— *Miles*, Dickerman, Hanscom, Dearborn.

FINANCE.— *Gilbert*, Poole, Miles, Grimmons.

INDUSTRIAL EDUCATION.— *Dickerman*, Carr, Cutler, Gilbert.

MUSIC.— *Whiting*, Cutler, Gilbert, Mrs. Attwood.

PRIVATE SCHOOLS.— *Mrs. Attwood*, Whiting, Poole, Gilbert.

REPAIRS.— *Dearborn*, Whiting, Poole, Mrs. Attwood.

RULES AND REGULATIONS.— *Cutler*, Whiting, Miles, Beard.

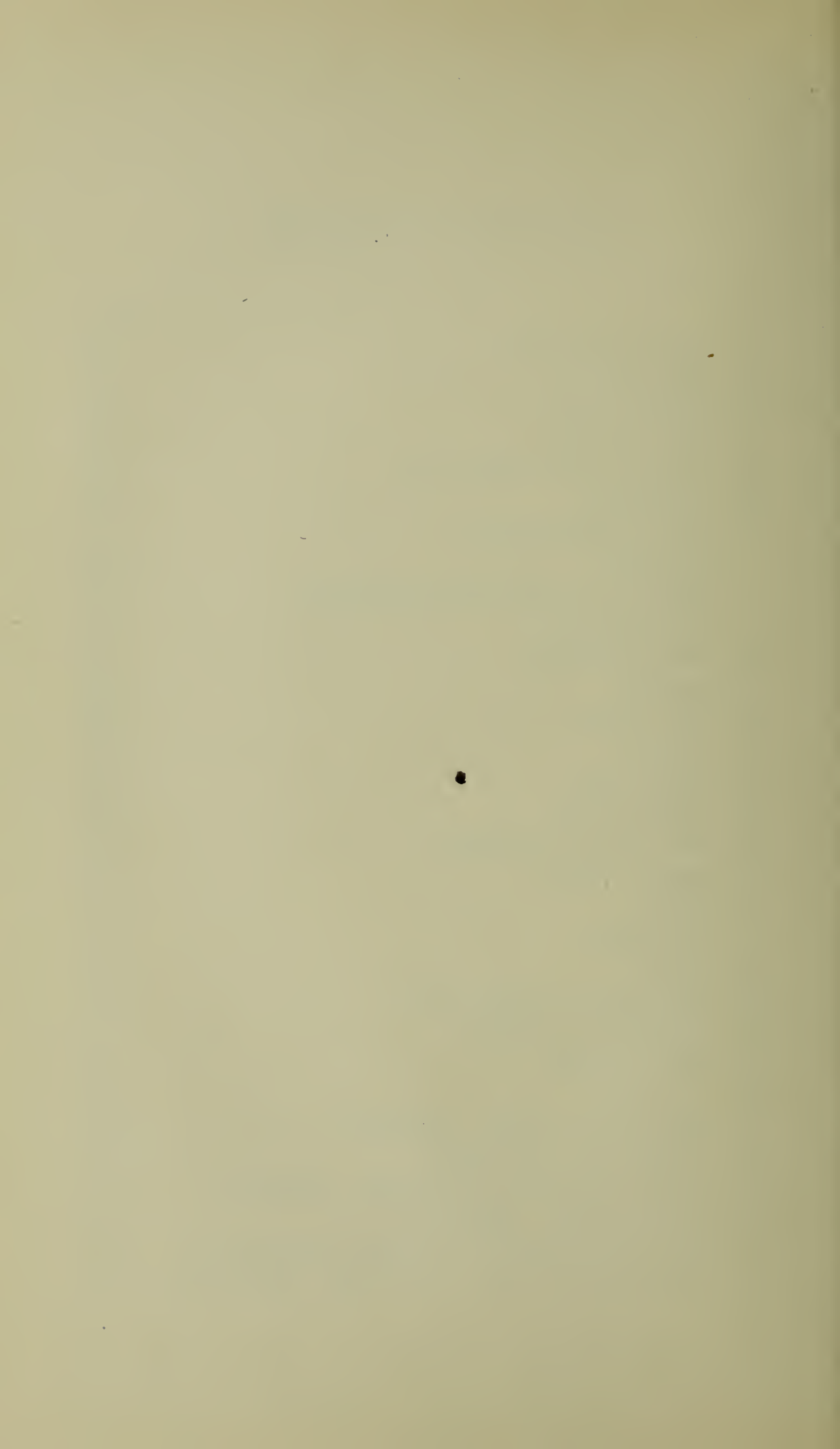
SALARIES.— *Hanscom*, Beard, Hardison, Carr.

SUPPLIES.— *Poole*, Dickerman, Carr, Dearborn.

TEXT-BOOKS AND COURSE OF STUDY.— *Hardison*, Dearborn, Cutler, Beard, Miles, Dickerman, Hanscom, Mrs. Attwood.

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MARTIN W. CARR SCHOOLHOUSE.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS

FOR 1898.

TO THE BOARD OF SCHOOL COMMITTEE:—

The twenty-seventh annual report of the Superintendent of Schools for the year ending December 31, 1898, is respectfully submitted, being the sixth of the present incumbent of the office, and the fifty-sixth of the school department of the municipality.

Attention is called to the following exhibit, which shows at a glance the salient facts of attendance and expenditure:

SUMMARY OF STATISTICS.

	1897.	1898.
Population of Somerville	56,000	57,500
School population, May 1	9,113	9,845
Children attending school in December	10,464	11,091
Attending private schools in December	1,386	1,454
Attending public schools in December	9,078	9,637
Attending high schools in December	877	871
Attending grammar and primary schools in December	8,201	8,766

Entire enrollment for year	11,293	11,577
Average number belonging	8,589	9,085
Average number attending	8,144	8,636
Per cent. of daily attendance	94.8	95.1
Number of school buildings	25	25
Valuation of school property	\$953,800.00	\$1,023,441.00
Number of classrooms	197	203
Number of teachers in December	249	252
Salaries of teachers	\$175,514.92	\$184,543.71
Salaries of officers	4,706.71	4,700.00
Cost of books and supplies	14,815.49	14,985.59
Cost of water and light	1,920.32	2,074.94
Cost of janitors' services	16,250.61	17,392.60
Cost of fuel	10,064.67	9,766.83
Total cost of day and evening schools	223,272.72	233,463.67
Cost for each pupil in average membership	26.00	25.70
Cost for each high school pupil	56.02	56.34
Cost for each grammar and pri- mary pupil	22.87	22.61
Amount paid for new school build- ings	46,620.92	49,983.00
Cost of repairs and permanent improvements	20,506.77	21,273.82
Entire expenditures for all school purposes	290,400.41	304,722.00
Expended by School Board	195,037.12	204,229.30
Expended by City Government	95,363.29	71,257.00
Valuation of city	50,173,775.00	50,739,700.00
Per cent. of valuation spent to maintain schools	0.444	0.460
Per cent. of valuation spent for all school purposes	0.579	0.601

COST OF SCHOOLS.

According to the appraisal of the Board of Assessors, Somerville has \$1,023,441 invested in school property. The most of it is of comparatively recent construction and is in good condition. The repairs and permanent improvements upon this property have this year cost the city \$21,274, two per cent. This is probably less than would be expended by a thrifty owner upon property of equal value used for other purposes. If building committees and city governments would only remember that schoolhouses are to be used for generations and build with greater thoroughness and stability, not forgetting that a little larger original outlay means future economy in repairs, more money would be annually available for other purposes. This repair expenditure includes the sum of \$3,516 towards a new heating and ventilating apparatus at the Prescott School. This building was erected thirty years ago and supplied with a steam-heating plant, but the means of ventilation were wholly inadequate. Nine years ago the sum of \$3,562 was expended for a new boiler and for an improved system of heating and ventilation. Lack of funds, however, compelled the committee in charge to leave the job but partly completed. The relief was marked, but if a few hundred dollars had then been available, recent outlays would have been much reduced if not rendered needless. The cost of the original heating apparatus was \$3,038. If to these sums there be added \$5,500 spent and to be spent since, the total expense for heating and ventilating apparatus for this building will be \$12,116.

These repairs were not begun until after the 1st of August. The result was that they were not completed until after the opening of school. Indeed, at the present writing, the middle of December, the work is not yet fully done. The schools have

been greatly interrupted, and on several occasions have been obliged to dismiss.

If some arrangement could be made whereby jobs of this sort could be begun at the commencement of the summer vacation, it would remove a source of great annoyance to the schools.

During the year, also, the interior of the Forster schoolhouse has been completely renovated at a cost of \$2,100. New floors have been laid and the woodwork painted and grained. The change from dirt and dinginess to sweetness and light has been marvellous, and has had the happiest effect on both pupils and teachers. At least two other buildings, the Prescott and the Bell, need a similar renewal. A fire in the former building on the afternoon of November 7, which occurring at night would doubtless have destroyed it, emphasizes the need of laying and relaying schoolhouse floors so that no combination of yawning cracks, mischievous boys, friction matches, and hungry mice can thus endanger life and property.

Another prominent item of expenditure was caused by the much needed enlargement of the drawing room in the English High School, by the removal of a partition and the inclusion of a little-used corridor. The change greatly improves the facilities for art instruction. Another much appreciated improvement was the establishment of telephonic communication throughout the building. The entire expense was \$1,114.

To provide fuel, water, and light, and to pay the twenty-five janitors of our schoolhouses has cost the city this year \$29,234.37, an average of \$3.22 for each child attending. This sum seems large, but it must be remembered that a modern school building is the coal dealer's best friend. To heat thirty cubic feet of cold fresh air for every one of 9,000 children for each of 60,000 minutes is a problem that requires large coal bins for its solution. Our janitors are paid an average salary

of \$830 for large buildings, and \$425 for smaller ones. And this is not too much for a janitor who keeps his building at a comfortable and equable temperature without wastefulness, who sweeps with requisite frequency and thoroughness, who sees that walls, windows, blinds, and furniture are always free from dust, who wages constant war against microbes with soap and water and scrubbing brush, who keeps toilet rooms invariably in a healthful condition, whose walks and yards are always attractively free from litter, who denies himself the solace his pipe might afford on school premises, who is always considerate of the pranks and needs of children, who is ready to aid principal and teachers whenever he can, and who, amid all his labors and trials, preserves a cheerful, sunny, and courteous demeanor,—such a janitor is worth all he is ever likely to receive. It is probable that insistence upon the attainment of the standard indicated might leave some vacancies to be filled. Nevertheless, our janitors are not overpaid.

Will it be deemed impertinent at this point to raise the question whether in the revision of our city charter it may not be well to consider whether the appointment and control of school janitors should not be made to rest with the School Board. This is the almost invariable custom in other cities. The reasons for the change need not be stated here nor do they involve any reflection on either the present appointing power or the efficient supervisor of janitors.

And in this connection the digressive inquiry is raised whether in the drafting of a new charter it would be amiss to give to a body having in charge interests so vitally connected with our city's welfare and involving such large expenditures as those controlled by the School Board, a representation on the commission? True, a school committee acts chiefly under state rather than municipal direction, but its powers and duties and efficiency depend in an important degree upon the

organization of the city government and its relations thereto. In recent charter revisions throughout the country, marked changes in this direction have been made. The tendency everywhere is towards smaller boards with greater powers. It is hardly an open question whether the location, the construction, the care, the repairs of school buildings are not matters that can better be committed to the hands of a board with a degree of permanency in its term of service, and composed of men possessing thorough acquaintance with educational needs and with all questions of school architecture and management, and having withal the business experience and sagacity to conserve the financial interests of the city. A calm and intelligent discussion of these questions would at least show the wisdom of the present arrangement if it did not perchance disclose a better way.

The sum of \$184,543.71 has been paid for teachers' salaries during the year, and \$4,700 for superintendent, truant officers, and clerk hire. This aggregates \$189,243.71, and shows a per capita expenditure of \$20.83 as compared with \$20.98 in 1897.

The sum paid for teachers' services constitutes by far the larger part of our school expenses. The question of increase in the salary paid women in the elementary schools has been before the Board during the year, and was decided adversely. A discussion of the general question of teachers' pay in all its phases, while interesting, would here be out of place. Suffice it to say, that the trend is upward. Increasing demands, a wider range of subjects, higher standards, require longer periods of preparation, broader qualifications, better teachers. There is a recognition of the justice of the demand for increased pay, and sooner or later the call will be met. It is for each community to decide for itself when that time has come.

Since the last paragraph was written, the city of Cambridge has increased the salaries of its women teachers about fifteen per cent. After January 1st, masters' assistants are to be paid \$900, and grammar and primary teachers, \$700. There is, besides, a provision whereby the salaries of not more than one third of the whole number of teachers may be increased to \$750 after one year's service, if necessary to keep them in the city. This increase will undoubtedly cost us some of our best teachers.

The fourth and last element in the cost of school maintenance is that of text-books and school supplies. The expenditure for the year is \$14,985.59, \$1.65 per pupil. The average cost in Somerville for the last ten years has been \$1.74, and throughout the State \$1.62. The equipment of a new school building has been an unusual source of expense.

The main items of expenditure are as follows :—

SCHOOL SUPPLY EXPENSES.

Text-books	\$5,333.85
Stationery and Supplies	3,965.68
Rebinding 4,000 Books	649.37
Book Covers	115.00
Laboratory Supplies	1,198.83
Drawing Material	687.80
Kindergarten Supplies	158.95
Pianos	500.00
Graduation Exercises	641.56
Printing	483.75
Expressage and Postage	295.18
Telephones	125.73
Travel	213.13
School Census	100.00
Miscellaneous	516.46
Total,	\$14,985.59

The aggregate cost of maintaining the day and evening schools of the city is \$233,463.67, and the cost per pupil \$25.70 as compared with \$26.00 in 1897. The following table shows the comparative expenditures in detail:—

PER CAPITA COST OF MAINTAINING SCHOOLS,
1897 AND 1898.

AMOUNT PAID FOR	High Schools.			Grammar and Primary Schools.			All Schools.		
	1897	1898	In-crease.	1897	1898	De-crease.	1897	1898	De-crease.
Instruction and Supervision . .	\$44 68	\$45 51	\$0 83	\$18 52	\$18 34	\$0 18	\$20 98	\$20 83	\$0 15
Text-Books and Supplies	4 95	4 44	*0 51	1 39	1 37	0 02	1 73	1 65	0 08
Schoolhouse Expenses	6 39	6 39	0	2 96	2 90	0 06	3 29	3 22	0 07
Total	\$56 02	\$56 34	\$0 32	\$22 87	\$22 61	\$0 26	\$26 00	\$25 70	\$0 30

*Decrease.

It will be seen that the per capita cost of high school instruction has increased 83 cents as compared with last year, while the cost of supplies for the high schools has decreased 51 cents, making the net increase of cost of high school maintenance 32 cents per pupil. Schoolhouse expenses were \$6.39 for each year.

In grammar and primary schools there has been a per capita decrease of 18 cents in the cost of instruction, 2 cents in the cost of supplies, and 6 cents in schoolhouse expenses,—an aggregate decrease of 26 cents.

Taking all schools together, the cost of instruction has decreased 15 cents, supplies 8 cents, and schoolhouse expenses 7 cents,—an aggregate decrease of 30 cents for the year.

Although the estimates of the financial needs of the school department for any given year can be made with comparative certainty, it has grown to be the custom of the City Council to make appropriations considerably below the estimate of the

Board, thus placing that body in the attitude of overdrawing appropriations.

In this connection the following comparisons will be interesting:—

FOR SALARIES.

	1897	1898
Estimate of Board	\$174,105	\$185,125
Expenditures	174,064	184,544
Appropriation	165,000	171,597

FOR SCHOOL CONTINGENT EXPENSES.

	1897	1898
Estimate of Board	\$19,640	\$20,000
Expenditures	19,522	19,686
Appropriation	18,000	18,000

The following shows how each dollar of the \$233,463.67 spent for school maintenance has been distributed:—

Care of school buildings	12.735 cents
Supervision	2.013 "
High school instruction	16.014 "
Grammar and primary school instruction	58.209 "
Kindergartens	2.053 "
Music . . . . .	.989 "
Drawing . . . . .	.428 "
Sewing . . . . .	.627 "
Penmanship . . . . .	.514 "
Supplies	6.418 "

The cost of the schools is a matter concerning which the taxpayer is properly sensitive. "How can it be reduced" is a question more frequently heard than the more vital one, "Do the results justify the outlay"? If there is waste, or extravagance, or expenditure for which no needful equivalent is returned, there certainly ought to be retrenchment. But if for every

dollar expended there is received full value in the wise and careful training and development of our children, there need be no complaint. Nor will there be. Our citizens have always demanded the best educational facilities. They require as good schools, as broad and thorough, as well equipped and as well taught, as those of their neighbors. While inquiring critics abound, no one has yet been found to advocate the false economy of neglecting suitable repairs upon school buildings. No one has yet asked, "Are not our schoolhouses too well cared for, too well ventilated, too comfortable"? or "Are not our janitors overpaid"? Nor has any one yet appeared with sufficient temerity to ask that teachers' salaries should be reduced. Should the captious critic claim that classes are too small, he may be met with the rejoinder that at present the average number to a teacher throughout the city is 46.3, that 40 is the maximum advocated by educators, that some cities have but 30, that extremists like President Eliot claim that 15 are enough, and that it is apparent to every intelligent observer that no other reform would be so effectual in securing greater efficiency for the schools and a shortened school life with its resulting decrease of cost, than a reduction in the number of pupils assigned to a teacher and the consequent opportunity of individualizing instruction and adapting it to specific needs. Should the anxious economist suggest that money could be saved by shortening the school year, he should be reminded that this matter is regulated by State enactment, and not by local option. The same reply would be made to the improbable suggestion that the same result could be secured by curtailing evening and high school instruction. The law requires these, and compels us to fit for college, for normal schools, and for technical institutions. Should our critic say that \$1,000 might annually be saved by dispensing with the services of a drawing specialist, it would be said that the statutes require drawing to

be taught, that its economic and educative value is indisputable, that no subject yields greater returns in elevating and refining influences, and to secure unity of work along correct artistic lines, the services of an expert director are needed. Should one whose ear is not moved by concord of sweet sounds, argue that \$2,400 now spent in musical direction and instruction might be used for more practical purposes, a thousand voices would be raised in harmony to tell him that while musical instruction is a matter of local option, after thirty years' test of its value to educate, to refine, to uplift, Somerville is not ready to abandon it and thus antagonize the overwhelming sentiment of the country. Should some fortunate benedict claim that the \$1,500 paid to our sewing teachers could better be spent upon the highways, every mother in the city would dispute the claim and contend there is no subject taught that can compare with sewing in practical value and training power. Should the advocate of retrenchment claim that the \$1,200 now paid for supervision in penmanship could at least in part be diverted to the purchase of copy books, and fifty per cent. of the sum be saved, he could be informed that that question had already been fully discussed by competent judges and decided in the negative. And lastly, if those who desire to lessen the burden of taxation without materially affecting the efficiency of the schools, should claim that the \$5,000 now annually spent for the kindergarten training of 200 children is a questionable expenditure on the ground that equal opportunities are not given all citizens, that only a few localities are favored with these advantages, that only one child in every fourteen entering the primary school has had this training and hence that the progress of any class cannot be materially enhanced thereby, that the per capita cost is twice that of any other school, the element of time being considered, that the just extension of kindergarten advantages to all parts of our city alike would require an additional twenty thousand

annually, that the rooms are needed for primary school purposes, and that while the value of this training is admitted, still it is not an essential element of our school system, and hence, a community struggling with financial burdens ought to be relieved of this one,—to these somewhat plausible arguments it might be replied that the patrons of the kindergartens in our city are unanimous in their approval, that there is no disagreement among experts as to the educative value of this training, that every good thing must have a beginning, that the system will be extended to include all sections of the city as soon as suitable accommodations are furnished, that possibly the expense may be lessened by utilizing the services of the same teachers in different localities at different hours, and that the best of our citizens would feel that our city had made a decided educational retrogression if by any possibility the kindergartens should be abandoned.

Thus each proposition for retrenchment may be shown to be incompatible with the requirements of those who insist upon the best. The more vital question and one much more difficult to answer, “Are our schools returning suitable dividends upon our investment”? may be considered later in this report.

SCHOOL ACCOMMODATIONS.

At no time within a dozen years have the school children of Somerville been so comfortably accommodated as at present. During the first six months of the year there were fourteen classes in the Spring Hill district on four-hour time, and during the three months ending June 30 there were crowded and half-time conditions in other sections brought about by April admissions, now happily abandoned. Relief was secured in September by the completion of the Martin W. Carr School which replaced the old chapel that under protest had masqueraded so long as a schoolhouse in Beech street. The old lot

was enlarged by the addition of a strip on the westerly side and the building, which was begun in July, 1897, was ready for occupancy at the end of fourteen months, September, 1898. Of the building itself nothing more need be said than to call attention to the architect's description and plans, and to the photographs found elsewhere in this report. It is the largest grammar schoolhouse in the city and contains fifteen classrooms, two recitation rooms, and teachers' rooms, store-rooms, and closets in abundance. At the risk of seeming ungracious it may be remarked that in one respect the construction of the building is open to a criticism that applies with equal force to several others in the city. Although three stories in height with three quarters of the pupils upon the two upper floors, the only toilet facilities for children are in the basement and reached only by a toilsome trip over several long flights of stairs. When reached, these rooms are too small, a defect which occasions inconvenience and a loss of school time. In our future schoolhouse construction the health and time of pupils should be considered and adequate toilet rooms provided on each floor of the building.

The state of the city finances in 1897 compelled an unfortunate, but let us hope only temporary, advertisement of our municipal poverty in the curtailment of the lot on which this, the finest grammar schoolhouse in the city, stands. There are but narrow passages on either side of the building and but little room in the front and rear. A building that speaks so loudly of our educational facilities should have been so located that its architecture could be seen and appreciated, to say nothing of the desirability of room enough to keep the pupils out of the street and off the neighboring premises. It must be the aim of the immediate future to add the land between the building and Harvard street to the present lot. Public convenience would be much promoted if Cleveland avenue could be

extended to Elm place, as easier access to the school would be thus afforded for a large part of the district.

The following description of the building has been kindly furnished by the architect, Aaron H. Gould of Somerville :—

“The Martin W. Carr school building, Beech street, was built by W. L. Clark & Co., contractors, of Somerville and Boston. The contract was made in August, 1897, and the building completed September, 1898.

“The building covers 928 square feet ; foundation, large dimension stones ; basement walls, large ledge stone up to grade line ; granite plinth course around the entire building, and struck granite steps to all entrances, both front and rear super-structure of hard burned water-struck red brick, and the trimmings of Indiana limestone ; copper gutters and conductors, the best Monson slate, copper ridges and valleys, and copper hoods to vent stakes.

“There are four entrances to the basement, at the rear of building, which are provided with runs for bicycles. These entrances permit scholars to enter with their wheels, and pass to lavatories in basement, before going to schoolrooms. There are two bicycle rooms, one for girls and one for boys. One of these rooms is used for a wardroom.

“The boilers are located in centre of building. The boiler-room floor is three feet lower than that of other parts of basement. This provides ample rooms for boilers and other apparatus required in a properly arranged boiler-room.

“The coal bunkers extend out under the concrete, at north-west side of building, as far as the end of wings. By this arrangement the coal is dumped through scuttles provided for the purpose.

“The ceiling of the entire basement is of plaster, that of the boiler-room being on metal lathing.

“The lavatories are fitted with the latest and best class of fixtures to be found in the market.

“All wood used for finishing basement is North Carolina pine.

“The first floor is reached by three entrances, one at each end of building, and one at the side. It contains four classrooms and two recitation rooms, — all of which are provided with slate blackboards; teachers’ room with lavatory; four wardrobes; a large store-room; a wide corridor with three staircases leading to the second floor, one at each end and one at the centre, directly in front of the side entrance. Stairs are also provided from the first floor to basement, directly under each of the above-named staircases.

“The classrooms, corridor and wardrobes are all well lighted.

“The second floor contains four classrooms arranged in the same manner as those on the first floor. This floor has one large recitation room, provided with slate blackboards, which can be used at any time for a small classroom seating 36 pupils. A principal’s room, a store-room, and a teachers’ room with lavatory, are also provided on this floor. The corridor is wide and all rooms are well lighted. There are two staircases from this floor to the third floor, one at each end of the corridor, and directly over the stairs from first to second floors. The centre stairs terminate at the second floor.

“The third floor has six classrooms, the centre rooms having a seating capacity of 45 and 50 pupils respectively. All are provided with wardrobes and closets in the same manner as those on the first and second floors, and well lighted. There is a teachers’ room with lavatory on this floor, and a staircase leading to the attic. Each corridor has two sinks, one at each end. The stock used in finishing the building throughout, above basement, is Southern Ash. All floors are of rift Georgia pine. The heating apparatus is the best of its kind.”

On the 30th of August, 1897, the School Board, with hearty unanimity, requested the City Government to name the new school after a resident of Spring Hill, who for many years has been prominently identified with the educational and civic interests of our city. With equal heartiness the City Council endorsed this action, and voted to name the new institution the Martin W. Carr School.

Martin W. Carr was born at Easton, Mass., March 9, 1829, the son of Caleb and Chloe (Parker) Carr, of that place. He is a direct descendant of Robert Carr, governor of Rhode Island in 1692. His education was obtained in the district school and the Adelphian Academy at North Bridgewater. He began his business life by learning the manufacture of shovels with the Ames Company at North Easton. Thence he went to Attleboro', where he acquired a thorough knowledge of the art of manufacturing jewelry. In 1856 he went into business for himself at Attleboro'. Five years after he was offered a foremanship at the United States Armory at Springfield, which he accepted, and remained there till 1864, when he came to Boston and re-entered the jewelry business in which he still continues. Mr. Carr came to Somerville in 1864 and served the city two years as a member of the Council and two years as alderman, the last year of that service being president of the Board. He also was a member of the Water Board one year, and has been a member of the School Committee since 1884.

The cost of the Carr schoolhouse is as follows : —

Paid for 10,409 additional feet of land	\$ 3,411.50
Cost of construction, including heating and furnishing	58,713.03
Total,	<u>\$62,124.53</u>

The new school was opened in September under the mastership of Charles G. Ham of Watertown,—a gentleman of

long and successful experience in grammar school instruction and supervision,—and an efficient corps of assistants, four of whom were transferred from the Franklin School, which was incorporated in the Carr. The fourteen classrooms were immediately filled, as was also a fifteenth room not originally designed for class use, by 700 pupils transferred from other schools in the Spring Hill and adjoining districts. Two rooms containing the first grade and one room with half of the second grade pupils were set apart for the use of the Training School. Under the general direction of the master, this department is in charge of a competent critic teacher. The instruction is given by six young ladies with either a normal school training or equivalent experience in teaching. It may be remarked, in passing, that the Training School, which is now in the third year of its existence, commends itself strongly to the Board and to the public, first, by the excellence of its instruction, which is more largely individual than is possible in other schools, and, secondly, by the efficiency of its graduates, four of whom are rendering services in various parts of the city, which will compare very favorably in character with the best in the city.

The schools in the Spring Hill district are still crowded, an assistant being employed in the lowest grade in the Morse School. The six-room schoolhouse now in process of construction in Washington street will be filled upon completion in September, 1899, by children from the Harvard, Knapp, and Carr schools. This will close the first-named building, which has so long repressed our pride; it will render the use of the Knapp wardroom no longer necessary; it will permit the return to that school of the two classes transferred in September last to the Pope School; and it will relieve somewhat the crowded condition in the Carr and Morse.

The school accommodations in the Winter Hill district are inadequate, and some relief must be afforded. We are obliged to employ an assistant in the lowest grade in the Bingham School, and to occupy wardrooms in the Forster and Glines. While these rooms are not unhealthful, they are ill-adapted to school purposes and were not designed to be thus used. Three new schoolrooms in this district could be filled to-day. There are therefore at least three problems of demand for increased accommodations that present themselves for consideration and settlement during the coming year. They are, — first, the enlargement of the English High School, which will be discussed later on, — secondly, a new school building in Ward IV to satisfy the demands of the immediate future, — and, thirdly a new school building for present and prospective needs, to be located somewhere in the Winter Hill district.

There are two considerations that should control the location of new school buildings. They are, — first, the convenience of patrons, and secondly, economy of administration. At the time of their construction many of our school buildings were located in centres of population, but as the city has grown, new residents have been compelled to send children long distances to school. There are certain sections of the city in which little children are compelled to walk from a half to three quarters of a mile to reach their schools. For older pupils the matter of distance is of little consequence, but primary school buildings, particularly those containing kindergartens, should be so located as to be easily accessible in all sorts of weather to the little children that attend them. Then, too, some regard must be paid to the future growth of the city. The location that seems one-sided at the present time, three or five years from now may be the centre of the school population that it will accommodate.

The second consideration, economy of administration, is one that affects the long future as well as the immediate present.

The peculiar organization of the Somerville school system that forces the per capita cost of grammar and primary school instruction much above that in other cities in the State, has been discussed in previous reports. The matter, however, is of such importance that we recur to it again. Attention is called to the following comparison in the cost of school maintenance in buildings of different sizes. We have selected the buildings most recently constructed as being more nearly typical of what may be expected in future buildings. Estimates are made on the basis of 45 pupils to a schoolroom.

The expense of schoolhouse care is the average cost for the last two years and that of instruction is based on the ordinary conditions, kindergartens being excluded.

PER CAPITA COST OF SCHOOLS IN BUILDINGS OF
DIFFERENT SIZES.

BUILDINGS.	ROOMS.	PUPILS.	CARE.	INSTRUCTION.	TOTAL.
Durell	4	180	\$3.74	\$13.75	\$17.49
Hanscom	6	270	3.20	13.89	17.09
Bingham	8	360	2.49	13.90	16.39
Hodgkins	12	540	2.89	17.00	19.89

A study of these figures reveals these facts :—School maintenance in a twelve-room building costs \$2.80 more per pupil than in a building of six rooms, \$2.40 more than in one of four rooms, and \$3.50 more than in an eight-room building run under normal conditions, that is, with an \$800 principal without an assistant. This is an average of \$2.90 per pupil in favor of the smaller buildings, a sum equivalent to the expenditure of \$1,500 annually, and sufficient to pay the yearly salary of two and one-half teachers, or to build a six-room schoolhouse every twenty years.

For many years, whatever else may be done, the erection of any additional buildings containing more than eight rooms and

involving the unjustifiable expense above indicated, should be strenuously opposed. Gradually the primary school pupils who do not so much need the supervisory care of a master, should be removed from our largest buildings, which could then be devoted entirely to grammar-school purposes.

In the report of last year it was recommended that a six-room building be erected not far from Powder House Park. A building in this locality must sooner or later be furnished for the relief of the Hodgkins and Highland schools. The recommendation is not renewed this year, but the substitute suggested in the last annual report is urged for the present year. We refer to the enlargement of the Burns School by the addition of four rooms and four rooms only. The erection of the Carr School did not afford the relief to the Spring Hill district that we had every reason to expect. Without placing any grade higher than a fifth in the Burns School there are children enough between and including Linden and Willow avenues to fill the additional four rooms in September, 1899, provided we abandon the Cedar Street School, in which the cost per pupil is \$9.61 more than in its nearest neighbor, the Burns. This will afford some relief to both the Morse and Highland schools.

Further reason for this enlargement exists in the necessity of providing some form of ventilation for the present Burns School building, a desideratum that would naturally be secured by the plan suggested. The addition of more than four rooms to this building, while possibly feasible, would lead to another grammar school centre with all the unnecessary annual expenditures that this involves.

A careful consideration of the best means of relieving the needs of the Winter Hill district leads to the conclusion that it can best be done by the erection of a six-room building on the Forster schoolhouse lot. There is land enough, and the

location is reasonably convenient to patrons. A building thus located would be practically a part of the Forster School, and for purposes of supervision and classification could be very easily managed. The Bingham School and the Glines would thus be relieved of two classes each, and the wants of the district would seem to be met for several years. The new building could be entirely independent of the old or connected therewith as thought best, and could probably be erected for \$25,000.

SCHOOL ATTENDANCE.

According to the annual census taken by the Truant Officer in May last, there were 9,845 children between 5 and 15 years of age in the city, showing an increase of 732 children of school age during the year. This increase is so large as to throw some doubt on the accuracy of the returns, for it exceeds by several hundreds the number of children in the schools at that time. Still the census was taken with unusual care, and the number of children reported as not attending school, while unusually large, may have been correct. If so, greater vigilance is required in the enforcement of compulsory school laws. Under the changed statutes, the school census will hereafter be taken in the month of September, thus affording an opportunity of requiring the attendance of all children of school age at the opening of the year. The law now requires children between 7 and 14 years of age to be in school during the entire school year of 40 weeks instead of 30 weeks, as under the old law. It imposes a fine for each five days of unnecessary absence within any period of six consecutive school months.

The law requires high schools to be in session 40 weeks annually, exclusive of vacations. Our high schools have kept 37 weeks of actual school time, lacking two days. One week

has been lost by blizzards and storms, another in the due observance of the five legal holidays that always occur during the school year, and seven days have been lost by the extension of vacations. The same statute demands that elementary schools shall keep at least 32 weeks during the year. Our own rules require a school year 40 weeks in length. The actual number of sessions has been 365 instead of the theoretical 400. For the loss of 11 of these sessions, the weather is responsible. Legal holiday observance has taken 10 more. The vacations have been extended to cover 13, and on one half day the schools were closed on the occasion of the funeral of an honored chief magistrate of the city, Ex-Mayor Burns. This loss of three weeks and a half of working time is mainly unavoidable. It may be that the respite thus given from severe school work gives increased vigor in the use of the remaining school time. But in measuring the work accomplished, this loss must be considered as an important factor. The theory is that every hour of school time should be so used as to yield full value, and return to the city an equivalent for its expenditure. Teachers, pupils, and school authorities should bear constantly in mind that each day of school life now costs the city \$1,167, and schools should be closed only in cases of urgent necessity.

The number of pupils connected with the public schools during the year is 11,577. Of these, 1,388 have never attended school before, and 1,151 have come into our schools from other cities or towns. The average membership of the schools has been 9,085, indicating a floating school population of 2,492 pupils, attending for a portion of the year only. Of the average number belonging to the schools, 8,636 have been present at every session, showing a per centage of 95.1. The increase for the year has been 559 pupils.

A change in school-attendance laws, which requires the names of absentees to be carried upon the rolls for 20 sessions instead of 10, as heretofore, will somewhat increase the average membership of the schools and decrease the rate of attendance. The object of the change is to secure uniformity in the keeping of records throughout the State.

The number of tardinesses during the year has been 2,941, the increase being attributable to the unusual hours during which the four-hour schools were kept during the first six months of the year. Only 1,321 times have scholars been dismissed before the close of the session, an index of the readiness with which parents are willing to co-operate with teachers by avoiding as far as possible the interruption of school work. There have been 256 occasions on which physical force has been used by teachers as a substitute for moral power. The number is gratifyingly small, either when compared with what was not uncommon ten or a dozen years ago, or when we reflect that human nature has not essentially changed since Solomon's time.

The question may properly be asked whether the disuse of the rod may not lead to the substitution of more objectionable disciplinary measures. There is danger in this direction. The palms of the hands are by no means the most sensitive parts of the child's organism. Not all teachers are always imperturbable. A few rarely are. Stinging and undeserved rebukes, hastily given, ridicule, biting sarcasm, — the impatient teacher's readiest and sharpest weapon, — leave wounds that slowly heal and do much to destroy the teacher's influence, and alienate respect. Unkind references to personal peculiarities, or weakness, or dulness, or home surroundings and training, thoughtlessly made in a moment of irritability, may lead to bitter antagonism where there should be cordial co-operation. From impatient, carping, sarcastic, unsympathetic

teachers, in whom the milk of human kindness seems to have soured, if any such there be, good Lord, deliver us. Give us rather those that chastise in love in the good old way.

HIGH SCHOOLS.

There has been little change in the size of the Latin High School during the year. A decrease of 6 brings its present membership down to 271. A class of 55 was graduated in June, and 78 entered in September. Twenty-five of the graduates entered college, and others are found in music, drawing, normal, or technical schools. There has been no change in its efficient corps of instructors, and its work, specific and direct in purpose, has progressed without interruption, and has been carried on undemonstratively but with the thoroughness and success that have always been characteristic of the school.

The average membership of the English High School for the year has been 563, an increase of 19 over the last year. Its present membership is 600. The entering class numbered 230, and 75 pupils were graduated. The present membership of the 9th grade, or graduating class of the grammar schools, is 495. Judging by the last three years, one half of this number will enter this school in September, '99. Assuming that the percentage of loss will be the same this year as since its organization, the school will contain at least 650 pupils to be provided for at the beginning of the next school year. As the present seating capacity of the building is but 604 at the outside, it is evident that some provision must be made for the increased numbers.

It may seem preposterous to call for an enlargement of so expensive a building during the fourth year of its existence, particularly when it was expected to supply all high-school wants for a decade. But there are cogent reasons therefor, and the question may as well be faced with fortitude and composure.

The first reason has already been given. The membership of the school in September, '99, cannot be comfortably seated in the building. A second reason is found in the fact that there are no recitation rooms at present. There were originally three rooms designed to be thus used. One of them, however, has been incorporated into the schoolroom made from the Superintendent's quarters; another has been taken for the imperative enlargement of the library; and the third is used by the typewriting department. This compels a resort to dressing-rooms for recitation purposes. Three of these, although unventilated and hung with pupils' garments, are now occupied daily by teachers and classes, necessarily small, of course. The master's office is used for one period daily in a similar way. A third and very important reason for enlargement is found in the needs of the manual training department. When the house was built, compulsory manual training for high schools was not thought of, and no provision was made for it. Four rooms in the basement were occupied for the purpose in lieu of something better. They are inadequate, however, for the development of the full course, and moreover are, especially at certain seasons, damp and unhealthful, as might be expected from rooms mainly below the ground level. Then, too, provision was made, when the curriculum of the school was arranged, for a course in domestic science. But from the outset no room has been available for this very practical work. If then, this school, so important in the far-reaching results it is accomplishing, is to continue its good work under the most favorable conditions, an increase of accommodations must be provided at an early day. These should include at least six classrooms, four recitation rooms, and six rooms for manual training and domestic science. If it is possible at the same time to provide an assembly room, in which the entire school may occasionally be gathered, and a room devoted to physical training, other urgent

needs will be met. This all involves outlay, but it also involves provision for the supply of present necessities, for the legitimate natural growth of the school, for its development according to the original plans, and for the extension of its usefulness in a community that is rapidly growing to realize its value and to appreciate the opportunities it presents.

There were three changes in the teachers of the school during the school year. In April, Dr. Lyman C. Newell, to whom the school is indebted for the thorough organization of the departments of chemistry and German, left the school to accept a position in the new State Normal School at Lowell. He was succeeded by George J. Pfeiffer, Ph. D., a graduate of Zurich Polytechnic School and University, and a gentleman fully equipped by education and experience to maintain the high standard of his department. In June, Miss Marsh was granted a year of absence for rest and recuperation. Her place was taken by Etta A. Seaver, Smith, '92, recently of the North Easton High School. Miss Davenport, who had had charge of the drawing department since the organization of the school, resigned and was succeeded by Mary F. Carrick, Normal Art, '94, and supervisor of drawing in Natick schools. These ladies are worthy members of the exceptionally strong teaching corps of the school.

The regular teaching force has been supplemented by the employment of student teachers, who serve without pay and under the direction of the head master. They are all graduates of college or technical schools, and have their specialties. As in these days experience is indispensable to permanent employment, they are willing to give their time and service for what they can gain thereby. While they give no regular instruction, their services are of much value to the school. In both drawing departments the classes are large. Hence the individual direction and assistance that are essential can be given by the

regular teacher to only a limited extent. The three assistants in these departments, graduates of the Normal Art School and thoroughly trained, can give valuable aid by supplementing the work of the regular teachers. This is true, also, in the department of elocution, where of necessity there can be only class instruction with a single teacher and 600 students, and where some individual work is very desirable. In the chemical and biological laboratories there is always much work to be done in the preparation of specimens and material and their distribution. An assistant who has specialized in these lines can be very helpful. A student teacher in the department of stenography has saved the city the salary of a second teacher for at least two years. In the academic departments there is much that trained, intelligent, though inexperienced teachers can do. In the library, in corridor duties, in clerical work of various kinds and in their willingness to aid in a great variety of ways, they prove their value. Two of these students have already obtained lucrative permanent positions through the prestige this sort of experience has given them. A mutually advantageous arrangement of this kind, whereby the school is increased in efficiency and our own college graduates are very greatly assisted in beginning their life work, should be encouraged and made permanent.

The school continues to maintain the high standard of excellence which has been conspicuous from its organization. Whatever the earnest effort and enthusiasm of skilled and self-denying instructors can do, is constantly being done for its students. As its numbers increase and the circle of its patrons extends, the school advances in the knowledge and appreciation of our citizens; and still, a large body of our people are ignorant of what the school offers and what it accomplishes. At recent informal receptions given in the

building by the teachers to parents of students, there were constant expressions of surprise, not only at the appearance of the building, but at the evidences of the diversity and practical nature of subjects taught.

While the expenses of the school, some of which are peculiar to the conduct of laboratories and manual training work, may seem large, we are confident that they are justified by the results that are constantly attained, and that all well-informed citizens will admit that the investment yields satisfactory returns.

As showing what proportion of those who enter the school drop out during the course, and how the loss is divided between the boys and the girls, the following tables are instructive. They furnish data for judging future membership, and apply to the three classes which have entered the school directly from the grammar schools.

STATISTICS OF CLASS OF 1899 IN DECEMBER, 1895,
1896, 1897, AND 1898.

Year.	Boys.			GIRLS.			TOTAL.	
	No.	Per cent. of class.	Per cent. loss in mem. 1 year.	No.	Per cent. of class.	Per cent. loss in mem. 1 year.	No.	Total per cent. loss 1 year.
1895	90	46.9	. . .	102	53.1	. . .	192	. . .
1896	59	39.6	34.4	90	60.4	11.7	149	22.4
1897	47	38.8	20.3	74	61.2	17.7	121	18.7
1898	36	36.7	23.4	62	63.3	16.2	98	19.0

Boys' loss from 1895 to 1898, 60 per cent.

Girls' loss from 1895 to 1898, 39.2 per cent.

Total loss of class from 1895 to 1898, 49 per cent.

STATISTICS OF CLASS OF 1900 IN DECEMBER, 1896,
1897 AND 1898.

Year.	Boys.			GIRLS.			TOTAL.	
	No.	Per cent. of class.	Per cent. loss in mem. 1 year.	No.	Per cent. of class.	Per cent. loss in mem. 1 year.	No.	Total per cent. loss 1 year.
1896	92	40.3	. . .	136	59.7	. . .	228	. . .
1897	75	46	18.4	88	54	35.3	163	24.1
1898	34	28.6	54.6	85	71.4	3.4	119	27

Total loss of class from 1896 to 1898, 47.8 per cent.

Boys' loss from 1896 to 1898, 56.5 per cent. Girls' loss from 1896 to 1898, 37.5 per cent.

STATISTICS OF CLASS OF 1901 IN DECEMBER, 1897
AND 1898.

Year.	Boys.			GIRLS.			TOTAL.	
	No.	Per cent. of class.	Per cent. loss in mem. 1 year.	No.	Per cent. of class.	Per cent. loss in mem. 1 year.	No.	Total per cent. loss 1 year.
1897	82	38.9	. . .	121	61.1	. . .	211	. . .
1898	58	37.9	29.3	95	62.1	21.5	153	27.5

TEACHERS.

There are now 252 teachers (23 men) employed in our schools; 32 in the high schools, 113 in grammar grades, 90 in primary work, 10 in kindergartens, and 7 as specialists.

During the year the city has lost the services of nineteen of its best teachers. Two of them, Mary S. Lawrence and Clara M. Bagley, died suddenly in the midst of their activities near the close of the school year. The action of the Board concerning them is recorded elsewhere in this report. Another,

Caroline S. Plimpton, relinquished teaching after a faithful and continuous service of 39 years in our schools, honored and respected by the hundreds who had come under her influence and instruction during this exceptionally long period of service. The 21 years of service of another, Elgina M. Plummer, were regretfully closed by ill-health. The fifth left us for financial reasons. Five others ended brief but honorable pedagogic careers to exercise their educational activities hereafter in connection with the strongest ally of the public school, a well ordered home. Ten, more than one half the whole number, were drawn from us by that irresistible attraction, a larger salary, an agency that is constantly depriving us of our strongest teachers.

Perhaps the most noteworthy change of the year in our teaching corps and one which awakened the widest public interest was in the department of music. After seven years of successful labor as supervisor of music in the six lower grades, Mrs. Gish Garwood resigned. After long continued efforts to harmonize divergent views, on the 49th ballot Mrs. Charlotte D. Lawton was elected her successor. Mrs. Lawton brings to her work zeal and enthusiasm, a thorough musical training, great skill in managing children, and a full knowledge of grade work gained in the Somerville schools,—an equipment which gives promise of gratifying success.

Of the teachers that resigned in 1898 the three longest in service taught in Somerville an average of 28 years. The average term of service of the remaining 15 was 4 years.

It is interesting to note that of the 92 teachers in the city who have resigned during the last five years, the period of service of fifteen is about 18 years, while seventy-seven served the city only 3 years and 4 months on the average. This furnishes some data by which future changes may be estimated.

We may expect to lose 100 teachers during the next five years.

Twenty-four new teachers have been employed during the year. In the selection of these teachers the question of fitness to fill a specific position has been the only one considered. The one thing that gives our schools the reputation which they justly bear is the discrimination which has always been exercised in the choice of teachers. Unstinted time and pains have been spent in this direction under the conviction that in this way only can our losses be made good and our standards maintained. Good health, professional training, successful experience, high moral character, have been considered prerequisites for employment. Strongly recommended teachers have been visited in their schools and judgments formed from actual observation. Probably five teachers are observed in this way for each one employed. It is gratifying to know that unfortunate selections are very rare. It would be possible but far from desirable to select our teachers from among those who make personal application for places. This class is a large one and made up chiefly of the unemployed who are found to be without experience or training, to be weak in some directions, to have failed in previous attempts to teach, to be in ill-health, to be desirous of temporary employment to tide over an exigency, or to be undesirable for one of a half dozen other reasons. Our city and its schools are to be congratulated on the almost utter absence of an element that has brought weakness and mediocrity to the schools of some other cities, namely, the demand of short-sighted and not unselfish partisans who seek employment for themselves or their friends on the ground, not of fitness or merit, but solely on the plea of residence or consanguinity. The citizens of Somerville, both in official station and in private life, demand for our schools the best teachers to be had, irrespective of personal or local considerations.

KINDERGARTENS.

The attendance at the five kindergartens supported by the city is shown to be as follows : —

	Hanscom.	Jackson.	Prospect Hill.	Glines.	Hodgkins.	Total.
Enrollment	108	92	88	102	103	493
Average Membership	46	43	42	41	50	222
Average Attendance	41	33	35	34	42	185
Per cent. Attendance	90.1	77.8	83	82.3	84.8	83.3
Age	4—4	4—5	4—9	4—4	4—7	4y. 6mo.

There has been expended on kindergartens the sum of \$4,953, and the per capita cost has been \$22.31.

At the present time, out of 1,677 children in the first grade of our primary schools, there are only 117 who have enjoyed at least one year of kindergarten training, less than seven per cent. of the whole number. These children are chiefly found in those schools in which the kindergartens are kept. A single year of kindergarten training is better much than none, but it is only those children who have had the complete course of two years that fully show its value in the rapidity and ease with which primary work is done. Such children may be expected to complete the three years assigned to primary work in at least two years.

It was a disappointment to the residents of the Spring Hill district that enlarged school accommodations provided no room for a kindergarten in their vicinity. Is it not a just cause of complaint that all sections of the city are not equally favored

in this respect? If the system is valuable for some children, why not for all? The extension of the kindergarten to include all sections of the city, and the making of the course compulsory involves a large expenditure, but one that equality of rights and privileges and the best good of the schools will imperatively require sooner or later. The other horn of the dilemma is the abandonment of the kindergarten altogether.

EVENING SCHOOLS.

There has been little change in the character of our evening schools. Two of them continued their sessions to the first of March with small numbers of earnest students. The drawing school closed its season of 48 sessions with an exhibition that showed satisfactory progress and attainment.

This school reopened in October, with smaller numbers than usual, but under conditions that excluded all not absolutely entitled to its privileges. An outline of study for both the mechanical and free-hand departments was adopted by the committee in charge, restricting the course to three years in the mechanical department and to two years in the free-hand department and providing for diplomas to follow successful examinations showing the satisfactory completion of courses.

The elementary evening schools practically repeat the experience of so many former years, — large numbers of well-intentioned but weak-willed students entering, but dropping out after brief or irregular attendance until but few more than one fourth remain. To this comparatively small number, the schools bring profit, and in some cases marked and rapid advancement. At the Bell, the four upper rooms have been well lighted and have been utilized in such a way as to permit some degree of classification and class instruction. This has resulted in an increase of interest and value. If it were

possible to centralize our elementary schools, this system of small classes could be extended and great gain made in other directions, not the least of which would be a conspicuous decrease in expense. The entire enrollment in the drawing school for the season of 1897 and 1898 was 185, the average attendance was 53.5 per cent. of this number, or 99. The aggregate cost was \$1,739.39, or \$17.57 for each pupil. In the elementary evening schools, 542 registered and 139 were present on the average every night. The cost was \$1,879.15, or \$9.30 per pupil.

THE PUBLIC LIBRARY AND THE SCHOOLS.

The sudden death at the beginning of the year of the Librarian of the Public Library, Mr. Hayes, who had done so much to place the best books within easy reach of all grades of pupils in the schools, and thus to foster in them a taste for good reading, made no change in the relations existing between these two great educational forces. His successor, Mr. Foss, gladly took up the good work, and has carried it on with enthusiasm. New books in large numbers have been purchased for children, others adapted for use in schools have been added at teachers' suggestions, libraries of from 20 to 50 volumes have been placed in some school buildings to be read at home under the direction and responsibility of teachers, books have been distributed and collected at the large school buildings, and library privileges have been extended to all teachers and to the pupils of the high schools.

The English High School, especially, is under great obligation to the Library for the facilities which have been offered to its students. Constant use is made of the books in the work of the school, and in this way thousands of volumes have been added to the circulation of the library.

Every year's experience proves the value of this close articulation between the schools and the library. Some acquaintance

with books and authors has been given, good books are no longer rare visitors in many homes, an appetite for good reading has been created, and the gates of knowledge, opening constantly wider and wider, are revealing the riches of the world's literature to the young.

True, some additional burdens have been laid upon teachers in this connection, but the great majority of the teachers of Somerville have at heart all the interests of their pupils, whether more or less directly connected with school life, and are ready at all times to give advice and guidance and help.

During the year 19,528 volumes have been circulated through the schools. Thirteen schools have had the advantage of special libraries in their buildings for longer or shorter periods.

PHYSICAL TRAINING.

For at least eight years the Ling system of free gymnastics has been taught in our schools. The exercises have rarely progressed beyond the first half of the series in the authorized course. They have an undoubted value, although they do not bring much mental relaxation, for the mind must be tense and alert if the required standard of execution is reached. They afford a change of posture, an exercise of the muscles, some physical development, in a few cases possibly an improvement of health. It is, however, an open question whether our present graduates show marked superiority of physique or health as compared with their predecessors. The exercises should, however, by all means be extended rather than limited or abandoned.

But do we not use the term "physical training" in altogether too narrow a sense. In these days the claim is made that the whole child is sent to school. Not only are all his faculties to be wisely trained and developed, but his physical comfort and well-being are to be maintained and promoted.

This demand is recognized in modern school architecture,—ventilation must be perfect, light must be ample, furniture must be constructed on hygienic principles and suitably adjusted to size and growth, all sanitary features must be scientifically correct. It is recognized also in the pains taken to prevent the spread of contagious diseases through the schools.

While it savors too much of paternalism for the authorities to assume full charge of the health of school children, there are certain respects in which their progress in school,—to say nothing of their wise hygienic development in the formation of habits, in the regulation of diet, and in matters of dress and hours of sleep,—demands attention to physical conditions and immediate, perhaps radical, treatment. In every class are found a certain percentage of so-called dull children, cases of apparent arrested development. Examinations and tests have over and over again shown that these children are generally afflicted with some defect of sight or of hearing, or with some organic weakness or deficiency in other directions, which medical skill could easily remove. In the city of Brooklyn alone, a recent systematic examination revealed the fact that 50,000 of its school children have defective sight and need to wear glasses. The proportion is quite as large in other cities and towns.

Should not the physical training prescribed by school authorities include whatever may aid or retard the educational progress of school children? Should there not be some temporary or permanent school official thoroughly conversant with every phase of school hygiene and clothed with authority to promote any reform in school life that may appear to be wise? Teachers need to be trained in the best system of school gymnastics, and to have their attention frequently directed to matters of hygiene which, in their engrossment in

other duties, they are liable to neglect. The sight and hearing of pupils should be scientifically examined, and suitable prescriptions or advice given to parents. The earliest symptoms of contagious disease should be detected, and the danger removed. The ventilation, temperature, and sanitation of schoolrooms and buildings should be frequently looked after. Children with abnormal physical or mental development should receive especial attention. Authoritative advice regarding diet, sleep, recreation, home study, might be given. Along these and kindred lines of work a competent person could find constant occupation, and render extremely valuable service.

Allied closely to the physical welfare of children in school is the matter of suitable facilities for play and open-air exercise. To provide these is in no sense the duty of school authorities, yet what body of men can be more interested in whatever pertains to the welfare of children than a School Board, or more capable of giving sound advice concerning it? Our city has taken a wise and generous step in providing the beginnings of two public parks or pleasure grounds. But they do not provide exactly what is needed. There should be public playgrounds for the exclusive use of children, provided with swings and simple gymnastic apparatus, croquet and tennis courts and sand heaps, and readily accessible to even young children. The city already owns several parcels of land that could be fitted up, as suggested, at slight expense. The Franklin school lot, the old Lincoln school lot on Elm street, a portion of the city farm, the Glen street lot, the Harvard school lot, are already available. Other pieces of land can and should be bought in other localities, before they are otherwise occupied, and some provision for playgrounds other than the public streets, free from keep-off-the-grass signs, and fitted up somewhat like the Charlesbank grounds, should be made at an early day. It must be remembered that half of our children spend the long

weeks of summer at home, and greatly need these means of recreation.

Along the same line is the necessity for public bathing facilities for boys and girls, — a necessity already acknowledged, and too patent to need discussion here.

By no means remotely connected with the subject of physical training is that of school athletics. It is one in which high-school students, teachers, parents, committee-men, and the public are to a greater or less degree interested. This has become so important a school interest that the students of many of the high schools in this vicinity, in conjunction with teachers, have formed an association for the regulation of athletic contests. Extracts from the Rules of the Association are printed below for the information of parents and others interested. It will be seen that only students who maintain a satisfactory scholastic standing are allowed to participate in games, and that other restrictions are made to prevent abuses. As far as our schools are concerned, while great interest has been shown and praiseworthy achievements made, it is believed that there has been little neglect of school work, that injurious excesses have not been indulged in, that all contests have been marked by manly and sportsmanlike conduct, and that the financial affairs of the clubs have been so managed as to reflect no discredit on the schools whose names they bear. When the reverse of these conditions becomes apparent, it will be the duty of school authorities to intervene in the interests of sound education and good morals.

The following is taken from the Constitution of the Interscholastic Football Association :—

The following shall be the rules of eligibility :—

SECTION 1. No one shall be allowed to represent any school in any game of the Interscholastic Football Association, unless he is and intends to be throughout the school year, a *bona fide* member of his school, taking a full year's work of at least twelve hours per week.

SEC. 2. No student on probation or conditioned in his studies can take part in any game. A student who is dropped for *neglect* of his studies into a lower class shall be debarred from taking part in any game until the end of the next academic year, or until he has made up the deficiencies which stand in the way of his restoration to his original class.

The Executive Committee does not see its way to require a physical examination of players by a physician before they are allowed to play, but it strongly recommends that the masters should take some action so that boys who are in poor physical condition should not be allowed to play.

PENMANSHIP.

For many years no question has aroused greater interest or led to warmer discussion both within and outside of official circles than this, "Shall the schools of Somerville teach slant or vertical writing." The story of the Natural Movement system of slant writing in our schools may be briefly told. It was introduced five years ago with hearty unanimity. It has been faithfully taught by teachers and for the most of the time under skilled supervision. It has resulted in giving the two upper grades a handwriting, rapid, fairly legible, easily produced. By concentrating attention chiefly on speed and movement instead of form, it has left pupils who drop out of school in the intermediate grades without the ability to write as well as they should. It has interfered with the regular written school work in grades below the seventh, and thus prevented the accomplishment of all that was desirable in other studies.

The proposition to supplant it by some system of vertical writing met with strenuous opposition. After the fullest consideration, however, it was voted by the smallest majority possible in a board of fourteen members to introduce vertical writing into the six lower grades of the elementary schools. Two systems were selected, the choice of either to be at the option of district committees. No copy-books were to be used,

and the question of the employment of a supervisor of penmanship, which had been in abeyance, was decided in the affirmative.

It is to be regretted that a change so radical and important could not have been made with greater heartiness and unanimity, and the new work be begun under circumstances more favorable to success. Nevertheless, the teachers of the grades affected prepared themselves during the vacation to teach the new system, and entered with their usual enthusiasm upon the task at the beginning of the fall term. Their efforts were directed and seconded by the supervisor, who had before him the difficult problem of teaching three systems of penmanship, diverse in form and methods, with no other aid than the blackboard.

When all the unfavorable conditions are taken into account, the results attained at the end of fifteen weeks are very gratifying. As far as form and legibility go, the writing of all grades is superior to that of the same grades in June last. From their experience thus far, of the 158 teachers in the six lower grades, 140 prefer vertical writing for school purposes, 15 like the slant better, 1 is undecided, and 2 would prefer a modified slant.

The general opinion is that children learn the vertical hand more easily and more quickly; that naturally poor writers write it better; that it is much more legible and convenient for the reader; and that its use leads to greater care, fewer errors, and more neatness and precision in all written school work. The writing thus far is slow, as may be expected until forms are learned, and as all hand-work of children must necessarily be when thought and pains are exercised. What speed may be attained by practice after habits are formed, the future will show.

Whatever system of penmanship is taught in our schools, no obstacles should be put in the way of securing the best results. On the contrary, every aid which experience and reason have shown to be valuable should be used. The object to be secured is a legible, easy, rapid, and, if possible, graceful handwriting. The one means now lacking that will most greatly contribute to this result is copy-books, to bring the form of letters under the child's eye for imitation. This is especially needful when letter-forms are absolutely new and unfamiliar. At present the blackboard furnishes the copy. Seen only at an acute angle or by turning the head to the rear or side, letters appear foreshortened or distorted. Children with defective vision are helpless, and for those with normal sight the constant change of focus and the attempt to see what is distant and indistinct is both tiresome and injurious. Then, too, while the great majority of teachers have acquired the requisite skill to set copies worthy of imitation by their pupils, there are some who have yet to learn the art. The best results in writing will not be seen until pupils are provided with copy-books of some sort.

DRAWING.

Under the enthusiastic direction of the drawing supervisor the work of the schools in this branch has been prosecuted with interest and success.

The use of brush and water colors for a portion of the year has awakened a fresh interest, and has proved a valuable means of training. In addition to form, the wide variety of color, in its shades and tints, is to be closely studied and reproduced. Flower and plant forms and other natural objects are represented with great fidelity. Taste and the appreciation of the beautiful are developed in a way impossible when only the pencil is used. Even primary children working with colored crayon surprise us by their skill.

And yet the chief object of drawing instruction in schools, to train the child to recognize and appreciate the beautiful in nature and art so that his emotions and aspirations shall be kindled, cannot be accomplished by crude attempts on his part to produce the beautiful. There must be a training of the judgment and the taste by the study of nature itself and of the great masterpieces which bring nature and art to us from distant times and lands.

The recognition of this truth is leading to a new phase of the work,—the study of pictures. While this is the golden age of art reproduction, the chief difficulty that teachers encounter is that of placing in the hands or before the eyes of children suitable pictures in proper form. The demand, however, is fast creating a supply, the expense of which is inconsiderable, and should be borne as all other needful school expenses are, by the city rather than by the child.

The following from Superintendent Balliet of Springfield bears strongly upon the question :—

Another false conception of art education now prevalent in public schools is that the main object is to have children produce something beautiful. This is important, but it is immensely more important that children be trained to appreciate what they see. This can be accomplished more effectively by having them study photographs which are good reproductions of great works of art, such as paintings, sculpture or casts, and architecture. This truth is just coming to be recognized. The movement to decorate schoolrooms with such works of art meets the need of the schools only in small part, since what is really needed is a collection of such reproductions in each school, selected solely with a view to class instruction.

Children's literary taste is developed not by having them write compositions, but by having them read the great masterpieces of literature. The teaching of drawing alone does little more to develop the art-sense in children than the teaching of composition

does to develop literary taste. Every child should be trained to write good English, as a means of expressing his thought; in like manner he should be trained to draw with sufficient facility to express himself in the language of drawing. This has been aptly called "graphic drawing." In both cases there should be an effort made to have this training in expression lead up to the beautiful in art. Art training in schools should not depend on this alone, but should be followed by actual study of works of art. The creative power of the mind must be trained, but this can be done in more than one line of school work.

APPORTIONMENT OF SCHOOL TIME.

We occasionally hear it suggested that the elementary schools are overburdened with a multiplicity of studies and that time is spent on the less important at the expense of the more important. To answer the criticism, the following table has been prepared. It is based on the present time schedule to which teachers are expected rigidly to adhere. It tells how many minutes out of every 100 in the nine years of our lower grades, are spent upon each subject in the course. The language studies,—together with arithmetic and writing, have been grouped under the time-honored caption "the three R's." It will be seen that, taking the grades through, five eighths of our school time is spent upon these. About three tenths of it is spent upon the subordinate studies of the course, while opening and closing exercises and relaxation consume the remaining twelfth. In examining the table it must be remembered that the measurement is of necessity made in teachers' time. The grouping of pupils must be taken into account. For example, in the first grade there are ordinarily five groups in number-work daily, giving less than four minutes of teaching to each child. In grammar grades, spelling, geography, and history are home studies and so

receive additional attention not shown in the table. This arrangement of time and studies may need readjusting and it may be far from the wisest. The facts are presented for information, thought, and suggestion.

TABLE SHOWING NUMBER OF MINUTES IN EACH 100 SPENT UPON DIFFERENT STUDIES.

STUDIES.	PRIMARY GRADES.				INTERMEDIATE GRADES.				GRAMMAR GRADES.			
	I.	II.	III.	Ave.	IV.	V.	VI.	Ave.	VII.	VIII.	IX.	Ave.
Reading, Spelling, Language . . .	47	48	45	47	39	33	31	34	30	30	31	30
Arithmetic	17	16	15	16	16	18	18	17	18	21	*25	21
Penmanship	7	7	8	7	8	8	8	8	8	8	4	7
“The three R's”	71	71	68	70	63	59	57	59	56	59	60	58
Geography and History			3	1	8	10	14	11	16	14	17	16
Physiology and Nature Study . . .	4	4	4	4	8	8	8	8	7	6	6	6
Drawing and Music	14	14	14	14	13	13	11	12	11	11	11	11
Subordinate Studies	18	18	21	19	29	31	33	31	34	31	34	33
Opening and Closing Exercises, Recesses and Physical Exercises }	11	11	11	11	8	6	6	7	6	6	6	6
Sewing and Mechanical Drawing						4	4	3	4	4		3

* Including Bookkeeping and Algebra.

GRADING AND PROMOTIONS.

Among the educational questions now uppermost, not the least important is this, “How can the graded school better supply the varying needs of the individual pupil?” It is an old and perplexing problem that has thus far found no satisfactory answer. Given fifty children with a crowded curriculum, a limited time, and all degrees of intellectual power from the bright, quick, interested girl at the head, to the slow, dull, indifferent boy at the foot of the class, how shall the teacher accomplish

the taskmaster's work without repression and lock step on the one hand or forcing that leads to failure and discouragement on the other? Attempts at solution have varied in character and success as conditions have been more or less favorable. In some places a system of double promotion has been found helpful, but very few can do two years' work in one year without overstrain or superficiality, and the plan affords no relief to those who must plod. In some schools where grammar pupils are massed, skipping classes are formed and the circuit shortened by one, two, or three years according to capacity. Elsewhere special teachers are employed to supplement the work of the regular instructor by giving to each extreme the special assistance required. This plan is good, but its cost precludes its general adoption, for it demands additional room as well as more teachers. In some places the pupils are taught in small groups of six or eight each, pushing on as rapidly as possible. This calls for rare gifts in the teacher and may lead to confusion and loss. Here and there the instruction is wholly individual in character, each child working independently of every other. This requires small classes and skilful management. Some claim to have found partial relief in departmental teaching, but there are losses that offset the gains. While a few localities are satisfied with one plan or another, no scheme has yet been devised equally suited to all the schools of any grade or city.

In our own schools several of these plans have been tried here and there spasmodically, but there has been no general attempt to seek or apply a permanent remedy. Teachers have been watchful and children of conspicuous ability have been advanced rapidly, but in the main, the teachers have been satisfied to do their best to adapt requirements to the average middle of the class, giving some extra work to the more capable, and leaving the least favored to get what they can, and to repeat the work another year.

The facts with regard to promotions in June, 1898, have been carefully gathered and tabulated and may be found elsewhere.

They show that out of every hundred pupils on the June promotion lists, seventy-nine were promoted unconditionally, twelve on trial for three months and the remaining nine were left behind to repeat the work. Of every twelve promoted on trial, one dropped back because unable to maintain a satisfactory standing. In other words, of the forty-six pupils now found in the average schoolroom, four are going over the work of the last year. This number is by no means excessive when individual cases are investigated and sickness and changes of residence, the chief causes of interruption to school work, taken into account. And yet in the aggregate the number seems large. Should all of the present ninth grade graduate in June next, their age will average fifteen years five months. As the age at entering is five years seven months, it will appear that in some way nearly one year is lost during the nine years' journey through elementary schools. Two hundred pupils have received special promotion during the current year.

It will be found that the children who are obliged to repeat the year's work are ordinarily included in the following classes :—idle, careless, indifferent boys, whom no pedagogic art can lead or drive to the satisfactory accomplishment of their tasks ; a few who have fallen hopelessly behind by unavoidable absence or ill-health ; now and then an abnormally undeveloped child without capacity ; and some diligent pupils whose minds act slowly, or who are lacking in natural ability along some one line of requirement. Very few of these need a whole year to make up their deficiencies. But as a rule we provide no shorter interval between classes, and they have no option other than to remain victims of an inflexible system.

A pernicious assumption underlies our course of study. It is that just so much ground must be gone over with equal thoroughness by all pupils in the same time. What is needed is greater flexibility of courses and rules, a greater regard for the abilities and needs of the individual pupil. Why, for example, should not high school courses be extended to cover five years if need be, so that the frail or slow may accomplish their sixty periods of required work at a pace that will not jeopard health or self-respect? Why should we insist that the girl whose mathematical bumps are concave should toil despairingly through subjects she can but dimly comprehend, only to be at last deprived of school privileges that the more fortunate enjoy? Why not allow her, the necessary rudiments of numbers needed in practical life being acquired, to drop arithmetic, or algebra, or geometry, and to spend her time upon what attracts her and in what she excels? Or why should the boy with no taste or ability for grammar, or music, or drawing, be compelled to attain a certain standard in those studies in order to go on with his class and develop in more congenial directions, where his success may be brilliant? Why seek to substitute uniformity where nature has planned diversity? Would our school system disintegrate if elective studies should be extended into elementary schools? Shall we not recognize inherent unchangeable differences in children, and modify our requirements accordingly? Surely the subject is of sufficient importance to awaken interest, and thought, and action among teachers and parents and those who control the methods of the schools. Our hope of improvement lies chiefly along the line of smaller classes and greater freedom of instruction. When the ideal number of pupils is reached, when teachers cease to be trammelled by unteachable numbers and by too rigid rules, when they are controlled by the single purpose to do the best possible by each child, whose needs and powers they have closely studied,

rather than by the class as a whole, when we cease to expect uniformity of attainment and power and progress, when we consent to give natural taste and talent a fuller swing and a wider range, we shall accomplish more for the child and thus best conserve the interests of the community for whose advantage the schools exist.

In this connection the question is raised whether the interests of the schools would not be enhanced by the establishment of ungraded classes, possibly one in each district. There are found in every school, boys and girls overgrown, wilful, indifferent, hard to interest and hence to manage, who foment trouble and demoralize the class; unfortunate children of meagre past opportunities; some who are seeking advancement out of grade movements; some who are trying to neutralize the effect of absence and need special help; some who have been left behind and are trying to overtake their classes. In every district at least twenty such — the maximum number — can be found, who might be committed to the tuition of a kindly, sympathetic, wise, tactful teacher with a salary large enough to secure the best, and in this way the schools be relieved and the interests of a class of children who have especial needs be greatly promoted. Such schools are established in other cities, and when managed so that no opprobrium attaches to membership therein, are productive of most excellent results.

MANUAL TRAINING.

Recent changes in the Statutes make the teaching of some form of manual training in the grammar as well as the high schools, obligatory upon every city of twenty thousand inhabitants. The introduction of some form of hand-work for boys in our upper grammar grades is no longer optional.

The requirement is based, of course, upon the value of this line of work as an element of education. Experiments have

settled the question beyond dispute. The reasons for its introduction below the high school are found in the fact that the curriculum of high schools, particularly in classical departments, is so crowded that a large majority of boys get no time for it. Then, too, many boys to whom this training would be of greatest value, never enter the high school. Again, the elements of manual training can best be taught to boys below the high school age. "There is a moral as well as an intellectual advantage that comes from the correlation of hand with brain, that is very much greater in earlier years."

The Franklin School building is at present unoccupied, and with comparatively little expense could be renovated and fitted with benches and an equipment for wood-working. The building is accessible to the majority of ninth grade pupils. An annual outlay of twelve hundred dollars would provide a weekly two-hour lesson to eleven detachments of pupils from our large schools.

The following, on the educational value of manual training, is from the last report of the Secretary of the State Board of Education, and is commended to the attention of those interested.

It is the misfortune of manual training that a wide gulf exists between the ideal training intended, and the poverty of the name that is popularly given to it. This name is too suggestive of the hand, of a kind of finger deftness, of a training that is not seriously mental, of a sort of discipline meagre in æsthetic and moral elements, of a preparation for the shop, rather than for a broader life; and so one of the grandest thoughts in education has to struggle against the opprobrium that goes with the poverty of its best known descriptive epithet. This great thought is that ideas are the embodiments of force; they have a dynamic character; they stir the motor areas of the brain; they tend to discharge themselves in action; they impel, in short, to the doing of things. Now, the

energy that would express itself in ideas may be squandered, like any other energy, in innumerable petty, neglected rills, or it may be gathered up, concentrated and made to do work, precious in itself in utilitarian ways, and precious in its reaction on the mind in intellectual and moral ways. Nay, neglect of such guidance of the child's activity into channels of well-considered work is neglect of the child himself. Education of the child that goes on in strictly bookish, sedentary, inert ways reaches only half the child, and makes less of that half than it ought. It engages the brain in but a part of its activities. It leaves the rest to grow as Topsy grew. It ignores the wonderful possibilities there are in training the motor areas of the brain to co-operate with the sensory, — possibilities, on the one hand, of making the physical activities glow with increasing intelligence, and, on the other, of having these activities react in a most invigorating way upon the intelligence that inspires them. The tiny associative fibers that bind together the sensory, motor and other regions of the brain, multiplying and growing so as to reflect, as it were, the kind and the extent of the co-ordination that is secured among these regions, are the physical expression of educational processes that merit profound study and discreet guidance. Were it not for the child's spontaneous activity, — an activity always struggling to assert itself, schools or no schools, — he would not fare so well as he now does. Such unguided activity, if not so educationally telling as it ought to be, is, in its way, the child's support and defence in such schooling as he receives. This activity has brought him, indeed, countless woes at the hands of those who have misinterpreted it, but his rebel attitude towards everything that would crush it still persists. When will the world learn that nature is more the rebel than the child? Take account of his active nature, give it a fair field, utilize the energy that is bubbling up and running to waste, and the rebellion is over. Among the many definitions that may be given to education, this is not without value: education is nobly-inspired and well-ordered self-activity. No educational process covers the field that does not reckon with all the ways in

which such activity tends to express itself, — ways to be checked as well as to be encouraged. A good school is a successful agency for directing and utilizing the activity of children. And the activity of children is at its best when it leads from play up to work, — we want men of action ; from instinct up to deliberation, — we want men of reason ; from interest up to will, — we want men of character ; from dependence on others to dependence on self, — we want men of self-reliance ; from selfishness up to altruism, — we want good citizens ; in short, from the lower, natural, uncultured self, up to the higher, ideal, educated self, — we want the best of which men and women are capable.

THE OUTLOOK.

The answer to the question, “Are our schools accomplishing all they ought ?” depends largely on one’s point of view. The pupil, the teacher, the principal, the superintendent, the school board, the parent, the citizen, the taxpayer, the business man, the theorist,—each has his reply conditioned on differing ideals or demands. If the observations and judgments of all of them could be obtained and harmonized and the administration of the schools based thereon, improvements might result. While it is impossible to unify opinions so widely divergent, the criticisms and suggestions of those who see the schools from different angles are both valuable and acceptable, provided always that they are based on positive knowledge. A leading difficulty lies in the fact that the critic’s horizon is narrowed by opportunity, or prejudice, or self-interest. Another comes from the impossibility of measuring the intangible results of educational effort and attainment. Knowledge can be tested, but power and character, what alchemy can analyze, what skill can measure them ! Time alone can show how far the schools yield these essential products.

It is quite natural for those who are responsible for school management to take optimistic views. There is danger indeed

of complacency. And yet we venture to say of our schools that they are doing well and carefully the work for which they are established. They are fairly well supplying the distinctive needs of the community that supports them. They run with little apparent friction. The relations between teachers and pupils are pleasant. There is the spirit of harmony and co-operation among teachers and parents and authorities. Attendance is regular, and children are interested in their work and remain longer in school than formerly. Our graduates take high rank in advanced schools and in business pursuits. Visiting experts commend our work. Our teachers are invited to positions more important and lucrative. Those that remain are enthusiastic and progressive, dissatisfied with present attainment, striving for something better.

The last twenty-five years have seen marked advances in at least four directions:—First, in whatever pertains to the physical comfort and well-being of children; second, in the enrichment of school courses, giving wider range and increased interest; third, in higher ideals and improved methods of instruction and discipline; fourth, in largely increased high-school advantages and attendance. In all these changes, Somerville schools have shared in greater or less degree. And yet other and equally important changes lie in the immediate future. Among them may be mentioned, smaller classes and the consequent individualizing and specializing of instruction; the extension of manual training; the multiplication of kindergartens; the modification of primary school methods to bring them into accord with the natural development of the child's powers; increased attention to physical needs; the raising of the compulsory school age; the still farther enlargement of high-school facilities; the extension of elective studies, and greater flexibility in the graded system; still higher standards of attainment and power in teachers; the recognition of

increased value in service by corresponding increase in compensation. In all the inevitable improvements in education which the spirit of the age is sure to demand and to evolve, we must be ready to share. With these changes will come increased burdens, but the compensations will far outweigh them.

The progress of events is rapidly bringing us face to face with new duties and wider opportunities. Never was there greater need in the nation, in the state, in the city, of intelligent, loyal, self-controlled citizens. To produce and develop these we rely chiefly upon the public schools. Let us grudge no pains or expense if only they may be made to bring forth men and women, intelligent, brave, patriotic, pure,—trained to think, to plan, to execute wisely and nobly for the maintenance and extension of whatever brings strength, happiness, and prosperity to the state.

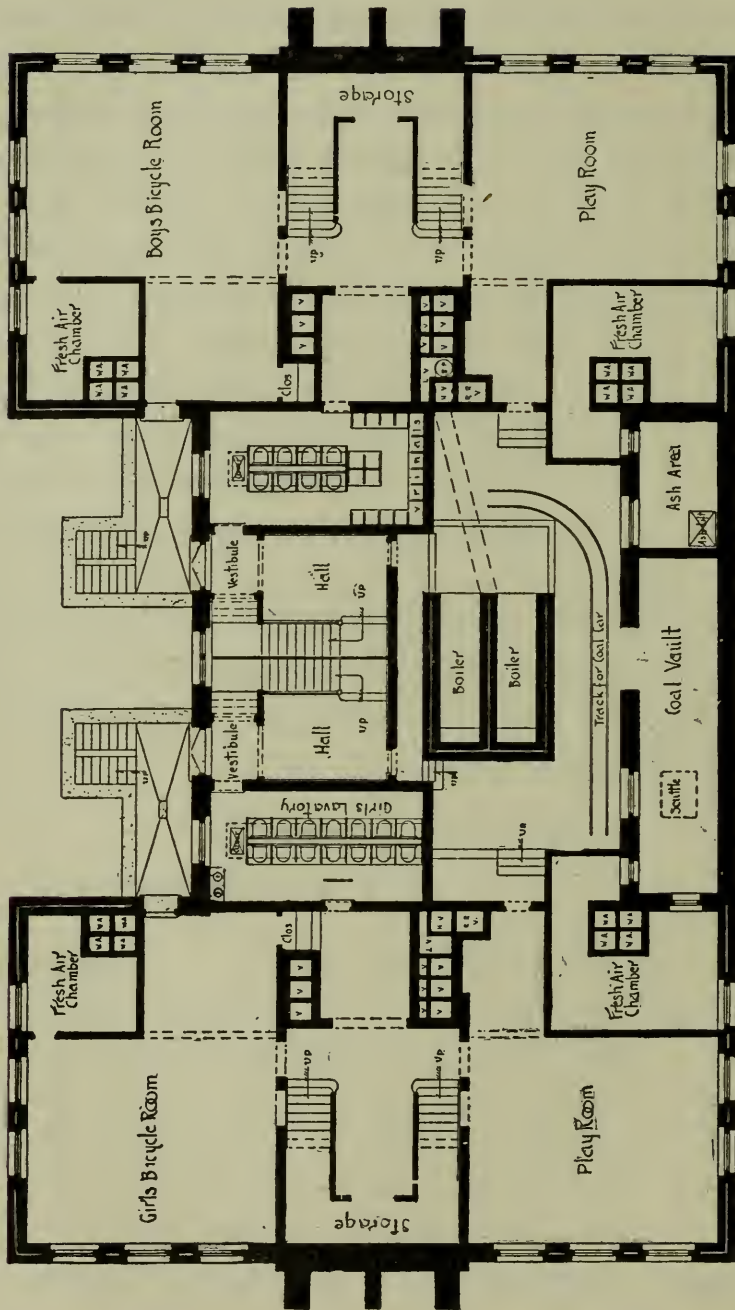
The Superintendent extends his thanks to the members of the Board for their wise direction and cordial support and to principals and teachers for sympathetic co-operation during a fifth year of pleasant service.

Respectfully submitted,

G. A. SOUTHWORTH,

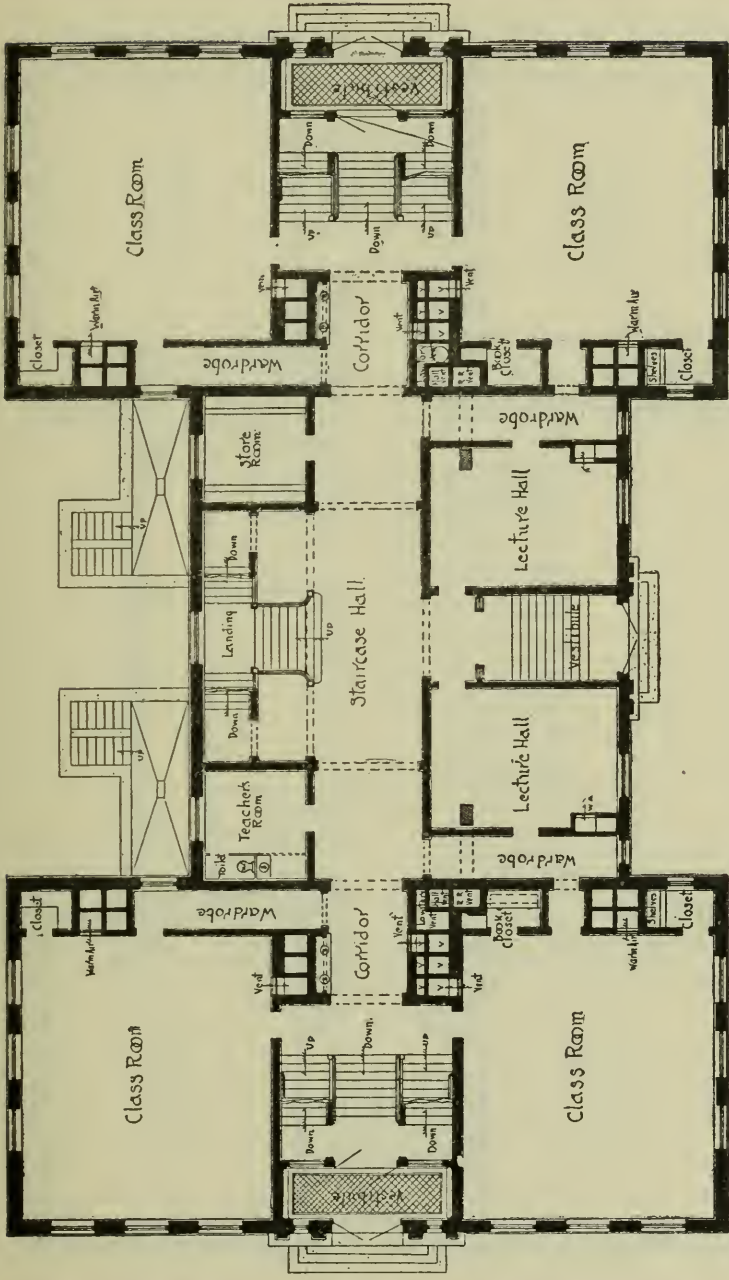
SOMERVILLE, December 30, 1898.

Superintendent.

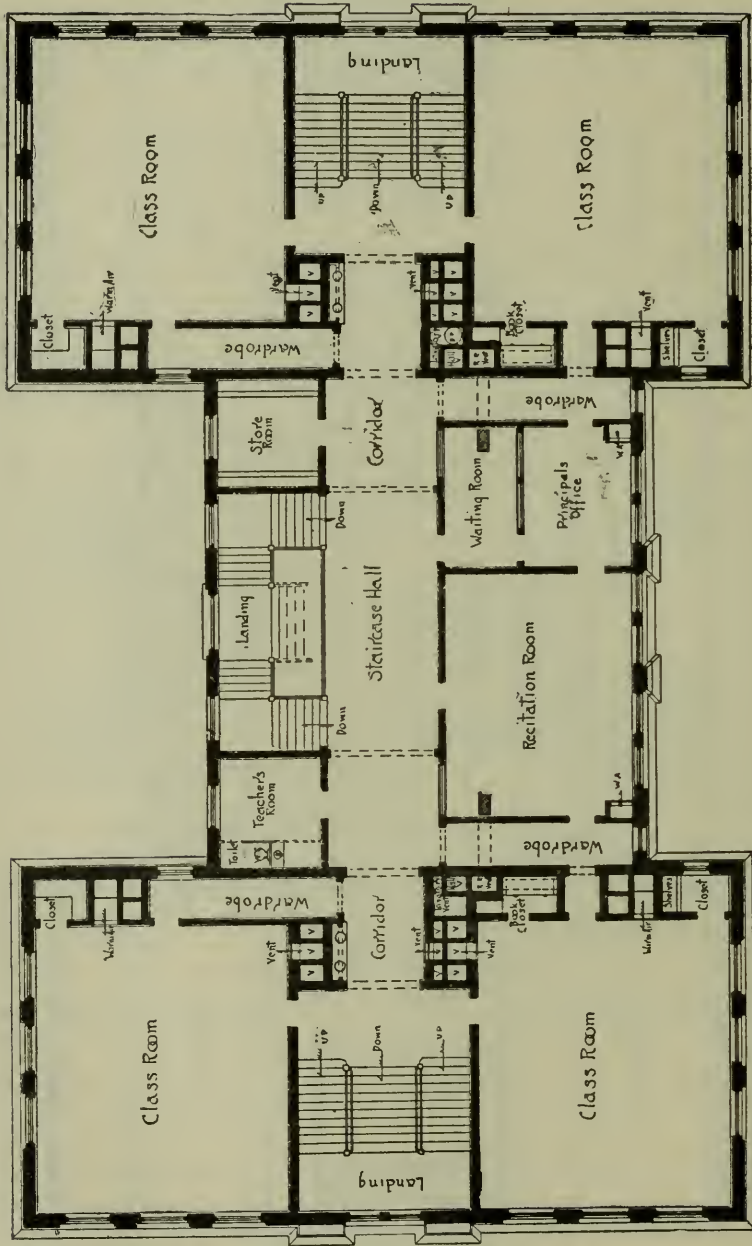


PLAN OF BASEMENT. MARTIN W. CARR SCHOOLHOUSE.

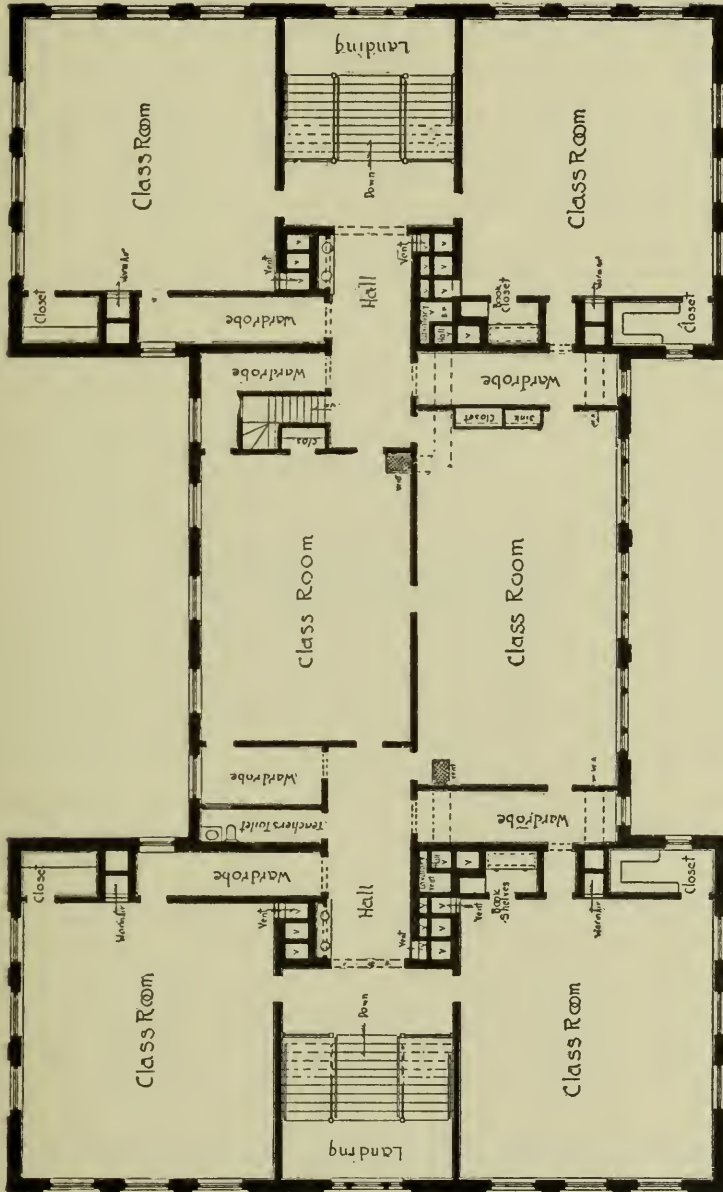
AARON H. GOULD, ARCHITECT.



PLAN OF FIRST FLOOR. MARTIN W. CARR SCHOOLHOUSE.



PLAN OF SECOND FLOOR. MARTIN W. CARR SCHOOLHOUSE.



PLAN OF THIRD FLOOR. MARTIN W. CARR SCHOOLHOUSE.

APPENDIXES.

CONTENTS OF APPENDIX I.

1. In Memoriam.
2. Organization of Somerville Schools.
3. Evening Drawing School Regulations.
4. Somerville Teachers' Association.

IN MEMORIAM.

MARY S. LAWRENCE died June 24, 1898.

The School Board of Somerville recognizes with sorrow the loss the community has sustained in the sad and sudden death of Mary S. Lawrence, stricken down in the midst of active duty after five years of faithful service in our schools, and desires to place on record its grateful appreciation of the zeal, fidelity and unselfishness with which she devoted herself to the interests of the children under her care.

CLARA M. BAGLEY died July 5, 1898.

Miss Clara M. Bagley completed twenty-five years of continuous service in the lowest grade of the Edgerly School on the 30th of June last, and died on the following Tuesday.

The School Board of Somerville desires to place on record its grateful appreciation of Miss Bagley's long, earnest, and faithful service and of her unselfish devotion to the interests of those under her care, and its cordial tender of sympathy to all to whom her death brings severest loss and sorrow.

ORGANIZATION OF SOMERVILLE SCHOOLS.

Information concerning our schools is frequently sought by citizens or by school-men in other localities. Following may be found the principal facts concerning them. Additional knowledge may be gained from the Rules and Regulations which are printed on subsequent pages for the benefit of parents and the local public.

KINDERGARTENS. — The city supports five kindergartens, in the Hanscom, Jackson, Prospect Hill, Glines, and Hodgkins schools. Vaccinated children between three and a half and five years of age are admitted to the kindergarten nearest their residence during the months of September and April, and may remain until the July following their fifth birthday. Sessions from 9 to 12.

Head kindergartners receive \$600. One trained assistant is allowed when the number exceeds thirty, at a salary of \$275, \$350, or \$425, according to experience. Kindergarten teachers give five hours daily to their work, the afternoon being employed in visitation, preparation, mothers' meetings, and the like.

PRIMARY SCHOOLS. — Our elementary-school course covers nine years, the first three of which are spent in primary schools. We have no exclusively primary school buildings, the eighty-three primary classes being distributed among the twenty-three schoolhouses.

Vaccinated children five years of age, or who will reach that age on or before the first day of January, are admitted during the month of September only, provided they have never attended school before. Children able to enter existing classes will be admitted at any time. Application for admission should be made to the principal of the school.

At present the primary classes contain 3,938 pupils, 43 per cent. of whom are in the first grade, 30 per cent. in the second, and 27 per cent. in the third. Average number to a teacher, 47.4.

Only trained or experienced teachers are employed, the salaries being \$300, \$400, \$500, or \$600, according to length of service. Normal training is equivalent to a year's experience, and experience in other places is counted in determining salary.

Teachers with classes numbering fifty-six are allowed an assistant, who is paid \$200, \$275, \$350, or \$425, according to years of service.

GRAMMAR SCHOOLS.—The grammar classes are found chiefly in eleven large buildings of twelve rooms each. The course covers six years and includes only those studies which the statute requires, with the addition of music, sewing, and elementary science.

Eight hundred and eight pupils were promoted into the fourth grade in June last, at an average age of 9 yrs. 4 mos. Three hundred and eighty-two were graduated in June at an average age of 15 yrs. 4 mos. There are at the present time, December, 1898, 4,581 in the grammar schools divided among the grades as follows :—

Fourth, 1,036, 22.6 per cent.	Seventh, 723, 15.8 per cent.
Fifth, 950, 20.7 “ “	Eighth, 553, 12.1 “ “
Sixth, 824, 18.0 “ “	Ninth, 495, 10.8 “ “

The average number to a teacher is 45.8.

The salaries of grammar school teachers are the same as those of primary teachers. Masters are paid \$1,900, and their assistants \$675.

PROMOTIONS.—Promotions in all grades from the first to the thirteenth, are made in June by the regular teacher and the principal with the approval of the Superintendent and district committee. They are based on the estimate of the pupil's daily work made by the teacher and recorded bi-monthly. An occasional brief, unannounced written test is a factor in this estimate.

Where there is reasonable doubt of a student's fitness, he may be promoted on a trial of three months. In such cases the parent is notified and kept informed of his child's progress. At the end of this probationary period he may be returned to his former grade, provided it seems for his interests. In 1898, ten per cent. of those promoted on trial, fell back.

Children capable of more rapid advancement may be promoted one or more grades at any time. Two hundred were thus promoted in 1898.

Fitness for graduation or for admission to the high schools is determined in precisely the same way. Diplomas are given in grammar and high schools to those who have satisfactorily completed full courses.

LATIN HIGH SCHOOL. — In September, 1895, in the forty-third year of its existence, the Somerville High School was divided, the classical or college preparatory departments remaining in the old building, erected in 1872, and the English departments occupying a new building erected in 1894-95.

Some facts concerning the Latin School are presented in the following table :

School Year.	Average Number Belonging.	Number Entering.	Graduates.	Cost of Instruction.	Per Capita Cost.	Teachers.	Pupils to a Teacher.
1895-6	257	69	50	\$11,702	\$45.57	9	28.6
1896-7	262	81	51	11,840	45.19	9	29.1
1897-8	273	86	55	11,921	43.67	9	30.3

The course of study in this school is determined chiefly by the requirements of Harvard University. Its graduates find ready admission to any college. The Head Master's certificate of qualification is honored wherever examinations are not required.

Special courses are marked out to meet the wants of those pupils who desire special preparation for special courses for college or for professional schools.

The regular time for completing the course is four years. Pupils, at the request of their parents, can make the work of each year easier by taking five years for the course. Those who are capable and have good reason for shortening the time of preparation, are allowed to complete the course in as short a time as their ability will permit.

Graduates of grammar schools are admitted to either high school on presenting a certificate of qualification signed by a master. All other pupils are admitted by an examination in grammar school studies, given usually on the Saturday preceding the opening of the schools in September.

The tuition for non-residents is the per capita cost for the year, payable in advance. The sessions of the school are from 8.30 to 1.30. The salaries paid high school teachers are given on later pages of this report.

ENGLISH HIGH SCHOOL. — This school was organized in September, 1895. Information concerning it is found in the following table :

School Year.	Average Number Belonging.	Number Entering.	Graduates.	Cost of Instruction.	Per Capita Cost.	Teachers.	Pupils to a Teacher.
1895-6	456	213	67	\$20,102	\$44.13	21	21.7
1896-7	531	235	70	23,010	43.33	21	25.3
1897-8	535	224	75	24,843	46.44	22	24.3

The course of study covers four years. Graduates are admitted to special courses when the conditions are favorable. Candidates for technical and normal schools take specific preparatory work.

Each student is required to take at least fifteen periods of prepared and five periods of work that requires no previous preparation. Unprepared work consists of drawing,—optional after the first year,—elocution, ethics, and music,—required throughout the four years,—manual training and typewriting,—optional. English language and literature, and composition, together with history, are compulsory studies throughout the course. Algebra and geometry are required during the first and second years.

The wide range of elective studies is a distinctive feature of the school. The choice of the first year may be one of the following: Latin, French, German, biology (botany and zoölogy), manual training, and mechanical drawing. To these physics is added for the second year, and chemistry, geology, and astronomy for the third and fourth. After the second year two or more electives may be taken.

During the third and fourth years the student may elect in a business course, bookkeeping, commercial arithmetic, commercial law, penmanship, stenography, typewriting; in mathematics, advanced algebra, solid geometry, analytical geometry, and trigonometry; in advanced science, work in botany, zoölogy, physics, chemistry, and drawing.

Of the fifteen periods of prepared work the course prescribes ten periods the first year, eleven periods the second year, seven periods the third year, and seven periods the fourth year. The pupil has the privilege of selecting from the list of elective studies, subjects whose recitation periods each week, or their equivalents, when added to the required prepared work, shall equal the necessary fifteen periods.

Concerning admissions, sessions, etc., see Latin School.

A simple, healthful, inexpensive lunch is served at the recess midway of each session to pupils desiring it.

MANUAL TRAINING.—Three rooms are fitted and equipped in the basement of the English High School for its manual training department. The course includes carpentry, wood-turning and carving, clay modelling, pattern making, moulding, and casting. A fourth room is devoted to mechanical drawing with a full course. Manual training has not been extended to include grammar schools.

The sub-master in charge of the manual training department is paid \$1,700, and his assistant, \$1,100.

SEWING. — Sewing is taught to the girls in the fifth, sixth, seventh and eighth grammar grades in weekly lessons of one hour each.

Two special teachers are employed at a salary of \$600 each, and an assistant employed for a portion of the time is paid \$300.

MUSIC. — Weekly instruction in music is given exclusively in the high schools and in part in the three upper grammar grades by a specialist, who is paid \$1,500 for four days' service. This sum also provides the orchestral music needed at graduation exercises. The books used are "The Euterpean" and "The Cecilian Series of Music and Song," Nos. three and four.

In the six lower grades, musical instruction is given by the regular grade teacher, under the supervision of a specialist who visits each class once every twelve days. She is paid \$900. The Normal System of Music, with its books and charts, is used.

GYMNASTICS. — In the English High School, twelve minutes are taken daily for free gymnastics, under the general direction of the teacher of elocution. In elementary grades, the Ling system of Swedish gymnastics is practised daily. No special teacher is employed.

RECESSES. — The Latin School has two brief recesses, breaking the daily session into thirds. The English School has a single recess at the end of the third period.

The four lower elementary grades have a five-minute recess midway of each session. The five upper grammar grades have no recess, though no unreasonable physical restraint is placed upon any pupil.

No detention of pupils is allowed at noon, and but a half-hour's detention at the close of the afternoon session, "for wilful neglect of duty only."

CORPORAL PUNISHMENT.—Corporal punishment, "which includes any infliction of physical pain or application of physical force," is not prohibited. It must, however, not be administered until twenty-four hours after the offence, the approval of the principal being first obtained. Each case must be reported in detail to the Superintendent. There were 204 cases in 1897 and 256 in 1898.

DRAWING.—A special teacher of drawing is employed in the English High School, at a salary of \$900. In that school freehand drawing is compulsory for first-year pupils, and elective for all others. Drawing is not taught in the Latin School.

In the primary grades daily lessons, and in the grammar grades semi-weekly lessons are given by the regular teacher, under the direction of a supervisor, who visits each class once a month and is paid \$1,000.

The course includes pictorial drawing from nature, models, and objects; structural drawing from type solids; decorative drawing, designing and color-work, historic ornament and picture-study. No drawing books are used. Colored pencils are provided in primary grades, and water colors and brush in grammar grades.

PENMANSHIP.—Vertical writing was introduced into the six lower grades of the elementary schools in September, 1898, the Natural and the Duntonian systems being used. The Wells Natural Movement method of slant writing is taught in the three upper grades. No copy-books are used. The supervisor visits each class once in three weeks and receives \$1,200.

TRAINING SCHOOL.—The training school occupies three rooms in the Beech Street building and is under the charge of the Standing Committee of the Spring Hill district. At present it includes two first-grade classes and one of the second grade, under the direction of a critic teacher who is aided by six assistants. Assistants, who must be normal-school graduates, are paid \$200, the required term of service being one year. Those who show inaptitude for teaching may be dropped at any time. The city incurs no obligation to give training students employment. The per capita cost of instruction is not to exceed that in other large schools. The school has graduated eight young ladies during the two years of its existence, four of whom are now teaching in Somerville and one in New Bedford.

STUDENT TEACHERS.—At the present time nine student teachers are employed in the English High School, three in the drawing departments, one in the typewriting room, one in the science laboratories, one in the department of elocution, and three in the general work of the school. They are all graduates of college or technical schools and serve without pay under the direction of the head-master.

THE PUBLIC LIBRARY.—The English School has a working library of 750 volumes, but it draws constantly on the public library located in an adjoining building.

For three years there has been a constant use of the library by school children. Fourteen circulating libraries of fresh books are in use in the smaller buildings. Books are delivered and collected each week at the large grammar schools. As far as they can, teachers aid in the selection of books by children, and the Librarian and his assistants cheerfully render all the help in their power.

EVENING SCHOOLS.—An evening drawing school for freehand and mechanical work is open in the Latin schoolhouse from October to April, on Tuesday and Thursday evenings from

7.30 to 9.30. Full information regarding courses is given on subsequent pages. The principal is paid \$6 and assistants \$3 and \$4 an evening.

Elementary evening schools are open in the Prescott, Bell, and Highland buildings from October 1st on four evenings a week, from 7.30 to 9.30. The length of the term is dependent on the interest and attendance. The course of study followed is that prescribed by the statute. Principals receive \$3 and assistants \$1.50 and \$1.00 each evening.

TRUANTS.—The city employs one active truant officer who is paid \$1,000. His duties are prescribed in the rules found elsewhere. Truants are sent to the county truant school at North Chelmsford. There are now eight truants from Somerville in the school.

JANITORS.—These important officers are appointed by the City Council Committee on Public Property and are under the direction of the Superintendent of Public Buildings,—who is also superintendent of janitors,—and the school principal. The rules governing janitors and their salaries will be found elsewhere in this report.

SUPERVISION.—The Superintendent of Schools is the executive officer of the Board and upon him devolves the general management of the schools under its direction. He serves as the Secretary of the Board and Supply Agent. His salary is \$3,000, and he is allowed a clerk who receives \$650. His office is in the City Hall Annex and his hours are from 4.00 to 5.00 each school day, and from 8.00 to 10.00 on Saturday. His office is open from 8.00 to 12.00 and from 1.30 to 5.00 on school days and from 8.00 to 11.00 on Saturday.

The meetings of the School Board are held on the last Monday evening of each month except July, at eight o'clock.

EVENING DRAWING SCHOOL REGULATIONS.

The following regulations, supplementary to those of the Board, have been adopted by the Committee on Evening Schools.

I. The school shall begin on the first Tuesday of October and shall continue fifty evenings.

II. No English High School pupil will be admitted to either department. No grammar school pupil will be admitted to the freehand department or to the mechanical department if he is under fourteen years of age.

III. No person not previously a member of the school will be admitted without a permit from the Superintendent of Schools, application for which in case of persons under eighteen years of age must be made by the parent or guardian.

IV. Every person entering the school must give evidence of intention to take the full course prescribed for the year. He must agree to be prompt and regular in his attendance and correct in deportment. Any student may be dropped after two consecutive unexcused absences.

V. No examination shall be required for admission to first year classes. Admission to higher classes will be either by examination or by certificate, showing the work of the previous class to have been done.

VI. The course in freehand drawing shall cover two years, and shall be as follows :—

FIRST YEAR — GENERAL.

1. Plane geometry.
Sheet A in plane geometry.
2. Historic ornament, Egyptian, Greek, Byzantine.
Sheet B in historic ornament.
3. Decorative and constructive design, geometric surface, designs, borders, panels, crestings, vase forms. Conventionalization of plant forms.

Sheet C : Geometric designs.

Sheet D : Elementary design from a plant finished in half-tint.

4. Model and object drawing. Practical perspective. Light and shade and shading.

Sheet E : Model drawing in outline from models.

Sheet F : Model drawing in outline from models.

Sheet G : Model drawing in light and shade.

Sheet H : Model drawing in light and shade.

SECOND YEAR — GENERAL AND ELECTIVE.

1. Applied design.

Sheet A : Applied design for decoration of flat surface, ornament in relief, or an object and its decoration.

Sheet B : Applied design for any subject the student may elect.

2. Model and object drawing.

Sheet C : Drawing shaded with charcoal point from a group of geometric models and a vase or some common object.

Sheet D : Drawing shaded with charcoal point from a cast of historic ornament.

3. Details of human figure.

Sheet E : Drawing in outline from the cast of a mask, bust, or some detail of the human figure.

Sheet F : Drawing as in sheet E, but shaded with charcoal point.

Sheets G, H, and I : Students may elect from the following list of subjects :— Applied design, models, and objects, casts of historic ornament, casts of the human figure.

N. B.— Students may elect any seven of the nine sheets required.

Diplomas. Students who have taken the full course of two years and who have satisfactorily completed the following sheets, each in a single evening, will be entitled to a diploma.

Sheet 1. Drawing in light and shade from a group of models.

Sheet 2. Drawing from memory of an original applied design.

VII. The course of study for mechanical classes shall cover three years, and shall be as follows :—

FIRST YEAR.

First half of year.—For all pupils, geometry, projection, and developments sufficient to make a common working drawing intelligible and easy for construction.

Second half of year.— Elective.

Machine class. Six working drawings of machinery.

Architecture class. Six working drawings of houses and house detail, including simple plans and elevations.

SECOND YEAR.

First half of year.—For all pupils, geometry, projections, intersections, and developments advanced from first year, sufficient to make the most difficult drawings easily.

Second half of year.— Elective.

Machine class. Cams, gears, belts, etc.

Architecture class. Difficult plans and elevations, together with building details.

THIRD YEAR.—ENTIRELY ELECTIVE.

During this year the room is considered a draughting office, the instructor being the chief draughtsman and the students his assistants. Here entire machines and their various parts are designed, and working drawings made for the same. Houses are designed, and details for all parts accurately

made. The student is carefully watched and directed that his work may be correct in design and accurate in execution. At the end of this year, diligent and faithful students are qualified for all forms of the draughtsman's work.

Diplomas. Students who complete the three years' course satisfactorily will receive a diploma.

SOMERVILLE TEACHERS' ASSOCIATION.

For several years the teachers of Somerville have maintained an organization whose purposes are set forth in the constitution which follows.

During the year the Association has held five meetings. Addresses have been given as follows:—

- Feb. 9. "What the Pupils Taught the Teacher."
Supt. W. C. Bates, Fall River.
- Mar. 31. "Child Study Applied."
Col. Francis W. Parker, Chicago.
- Oct. 19. "The Personal Factor in Instruction."
Rev. C. G. Ames, D. D., Boston.
- Dec. 14. "Old and New Ways of Treating History."
John Fiske, LL. D., Cambridge.
- Feb. 24. A Social Meeting was held at Unitarian Hall.

Besides these meetings, fifty grade meetings of teachers have been called by the Superintendent during the year for the planning of music and drawing work, and to consider other matters connected with school methods.

The officers of the Association for 1899 are:—

- George M. Wadsworth, *President*.
Charles G. Ham, *Vice-President*.
Frances W. Meldrum, *Secretary-Treasurer*.

EXECUTIVE COMMITTEE.

Winfred C. Akers.	Mary E. Northup.
R. Adelaide Witham.	Nora F. Byard.
Fred C. Baldwin.	Mina J. Wendell.
John S. Emerson.	Ella H. Bucknam.
Charles E. Brainard.	Gertrude Friend.
Amelia I. Sears.	Blanche Seabury.
Grace M. Clark.	Harry F. Hathaway.
G. A. Southworth, <i>ex officio</i> .	

CONSTITUTION OF THE SOMERVILLE TEACHERS' ASSOCIATION.

I. NAME.

This Association shall be known as the SOMERVILLE TEACHERS' ASSOCIATION.

II. OBJECTS.

The objects of this Association shall be to unite all teachers of Somerville into one organized body of professional workers for the welfare and progress of the public schools, to consider the aspects of education, to study its principles, to improve its methods, and to advance teaching as a profession.

III. PRINCIPLES.

This Association holds:—

1. That the highest end of education is the formation of character.
2. That this end is to be attained through the complete and harmonious development of the human being in his three-fold nature, — physical, intellectual, and moral.
3. That intellectual development depends upon the conscious self-activity of the individual in the exercise of all the faculties of perception, thought, and expression.
4. That a system of education should furnish such instruction and training as shall stimulate all the energies of the child in their

natural order and at the proper time, by means of appliances, material, and subjects of instruction adapted to his varying powers.

5. That the child is of more importance than the school; that the natural growth of the child in his three-fold character should never be subordinated to the maintenance of an organization or machine.

6. That we all, being members of one body, and realizing the importance of each and every one to the whole system, hold it to be our duty to give to one another all the sympathy, aid, and co-operation in our power, and so far as the opportunities may permit, to familiarize ourselves with the aims, principles, and methods of the several departments of our school system, in so far as such knowledge may contribute to the general welfare and progress, and render our individual work more effective.

IV. OFFICERS.

1. The officers of the Association shall be a President, two Vice-Presidents, and a Secretary-Treasurer, who, with fifteen other members, shall constitute the Executive Committee. Each high school, each grammar school, and one of the smaller schools in each district shall be represented on this committee. The Superintendent of Schools is a member, *ex officio*, of this committee.

ELECTION.

2. The officers shall be elected annually, at the last regular meeting of the year.

DUTIES.

3. The duties of the President, Vice-Presidents, and Secretary-Treasurer shall be such as usually devolve upon these officers.

4. It shall be the duty of the Executive Committee to arrange the programmes of the meetings of the Association, and to change the date of any meeting, if necessary.

QUORUM.

Seven shall constitute a quorum of the Executive Committee for the transaction of business.

BY-LAWS.

MEETINGS.

1. The meetings of the Association shall be held in the English High School building, and shall take place on the second Wednesday in February, April, October and December. There may also be a fifth meeting of a social character at a time and place to be arranged by the Executive Committee.

2. The hour of the stated meetings shall be 3.30 P. M.

DUES.

3. The annual dues shall be fifty cents, payable at the first meeting of the year. Assessments may be called by vote of the Association.

AMENDMENTS.

4. Amendments may be made by a two-thirds vote of the Association.

SOMERVILLE KINDERGARTEN ASSOCIATION.

The teachers in Somerville Kindergartens are united in an association, the object of which is to promote interest in the kindergarten on the part of parents and others, and to extend a knowledge of its principles. Several general public meetings have been held during the year. Mothers' meetings are held frequently at the local kindergarten rooms.

The officers of the association are : Gertrude Friend, President ; Caroline Boardman, Vice-President ; Maude Cushing, Secretary ; Josephine Kimball, Treasurer.

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TABLE 1. — SCHOOLHOUSES.

	NAME.	No. of Classrooms.	Rooms not occupied.	Size of lot.	Valuation.	When built.	No. of years used.	Enlargements.
1	Latin High .	a4	.	. . . .	\$ 56,000	1871	27	
2	English High	b15	.	. . . .	141,579	1895	3	
3	Prescott . .	12	.	21,444	47,000	1867	31	
4	Edgerly . . .	12	.	26,428	47,000	1871	27	{ 4 rooms added 1882 " " " 1892
5	Bell	12	.	23,393	47,000	1874	24	
6	Knapp	13	.	24,517	50,257	1889	9	4 rooms added 1894
7	Pope	12	.	27,236	62,000	1891	7	
8	Forster . . .	13	.	27,499	47,000	1866	32	
9	Glines	14	.	28,800	73,661	1891	7	5 rooms added 1896
10	Morse	12	.	29,109	47,000	1869	29	6 rooms added 1890
11	Carr	15	.	21,400	64,000	1898	.	
12	Highland . .	12	.	23,260	48,837	1880	18	4 rooms added 1891
13	Hodgkins . .	12	.	35,034	60,789	1896	2	
14	Bingham . . .	8	.	21,017	37,907	1886	12	4 rooms added 1894
15	Prospect Hill	6	.	25,313	21,000	1848	50	4 " " 1865
16	Bennett . . .	4	.	20,560	10,600	1868	30	
17	Jackson . . .	4	.	11,212	8,600	1861	37	
18	Davis	4	.	38,152	25,700	1884	14	
19	Cummings . .	4	.	11,300	15,700	1884	14	
20	Durell	4	.	13,883	16,879	1894	4	
21	Harvard . . .	1	.	9,810	3,600	1851	47	{ Moved from Cherry street, 1867, from Kent street, 1871
22	Burns	4	.	16,080	15,700	1886	12	
23	Cedar-Street	2	.	. . . .	800	1843	55	{ Moved from Broadway, 1868
24	Lincoln . . .	4	.	17,662	14,700	1885	13	
25	Hanscom . . .	6	.	12,756	44,532	1897	1	
26	Franklin . . .	4	4	33,017	15,600	1846	52	2 rooms added 1862
	Total	213	4	. . . .	\$1,023,441	. . . .	.

a Six recitation rooms, a physical laboratory, three teachers' rooms.
 b A chemical, a physical, a biological laboratory, a recitation room, a lecture hall, drawing room, two teachers' rooms, library and principal's office; four manual training rooms and lunch room in basement.

TABLE 2.—COST OF MAINTAINING SCHOOLS, 1898.

SCHOOLS.	Teachers.	Care.	Supplies.	Total.
Latin High . . .	\$12,141.00	\$1,802.60	\$ 824.10	\$14,767.70
English High . .	25,818.30	3,525.76	2,875.19	32,219.25
Prescott	9,810.16	1,528.47	489.18	11,827.81
Edgerly	9,947.79	1,534.23	640.21	12,122.23
Davis	2,654.64	491.07	157.25	3,302.96
Bell	10,143.42	1,713.34	658.65	12,515.41
Cummings . . .	2,767.14	487.16	149.33	3,403.63
Knapp	10,739.38	1,770.97	569.61	13,079.96
Pope	9,888.17	1,453.44	617.39	11,959.00
Prospect Hill . .	4,199.91	638.53	292.39	5,130.83
Bennett	2,566.20	317.69	107.35	2,991.24
Jackson	3,044.76	356.69	160.50	3,561.95
Forster	10,582.54	1,427.17	617.25	12,626.96
Glines	11,682.36	1,696.37	638.65	14,017.38
Bingham	6,103.84	878.48	427.39	7,409.71
Morse	10,918.42	1,496.57	657.90	13,072.89
Carr	4,903.12	645.09	2,531.15	8,079.36
Franklin	3,001.01	181.87	81.99	3,264.87
Durell	2,925.08	753.84	185.93	3,864.85
Harvard	719.60	158.47	28.18	906.25
Burns	3,168.04	577.67	170.38	3,916.09
Cedar-St.	1,324.51	183.74	55.63	1,563.88
Highland	10,122.92	1,516.26	618.96	12,258.14
Lincoln	2,642.46	769.88	193.51	3,605.85
Hodgkins	10,493.16	1,563.70	805.80	12,862.66
Hanscom	4,209.28	864.19	307.29	5,380.76
Evening	2,726.50	891.12	124.43	3,752.05
Totals	\$189,243.71	\$29,234.37	\$14,985.59	\$233,463.67

TABLE 3.—PER CAPITA COST OF MAINTAINING SCHOOLS, 1898.

SCHOOLS.	Teachers.	Care.	Supplies.	Total.
Latin High	\$44.80	\$6.65	\$3.04	\$54.49
English High	45.85	6.26	5.11	57.22
Prescott	19.98	3.11	1.00	24.09
Edgerly	20.06	3.09	1.29	24.44
Davis	16.59	3.07	.98	20.64
Bell	17.61	2.97	1.14	21.72
Cummings	15.20	2.67	.82	18.69
Knapp	17.13	2.82	.91	20.86
Pope	19.62	2.88	1.22	23.72
Prospect Hill	18.10	2.75	1.26	22.11
Bennett	17.95	2.22	.75	20.92
Jackson	18.57	2.17	.98	21.72
Forster	18.15	2.45	1.06	21.66
Glines	18.54	2.69	1.01	22.24
Bingham	16.77	2.41	1.17	20.35
Morse	18.05	2.47	1.09	21.61
Carr, M. W.	17.70	2.33	3.65	23.68
Franklin	17.76	1.08	.49	19.33
Durell	14.27	3.67	.91	18.85
Harvard	16.35	3.60	.64	20.59
Burns	14.21	2.59	.76	17.56
Cedar-St.	22.84	3.17	.96	26.97
Highland	18.54	2.78	1.13	22.45
Lincoln	15.64	4.56	1.14	21.34
Hodgkins	18.94	2.82	1.45	23.21
Hanscom	16.90	3.58	1.23	21.71
High Schools	\$45.51	\$6.39	\$4.44	\$56.34
Grammar and Primary	18.34	2.90	1.37	22.61
All Schools	20.83	3.22	1.65	25.70

TABLE 4. — ANNUAL COST OF MAINTAINING THE SCHOOLS

FOR A SERIES OF YEARS.

Amounts are given to the nearest dollar and include what has been paid for maintaining day and evening schools of all grades.

YEAR.	Average Membership.	Instruction and Supervision.	Water and Light.	Heating.	Janitors.	School Supplies.	Total.
1885	4,904	\$ 79,506	\$ 728	\$ 4,965	\$ 4,000	\$ 8,449	\$ 97,648
1886	4,985	83,542	624	4,929	4,194	6,676	99,865
1887	5,198	86,713	765	6,475	5,084	7,526	106,563
1888	5,488	88,967	953	7,121	5,892	7,421	110,354
1889	5,956	96,466	805	6,081	6,448	9,903	119,703
1890	6,486	104,184	1,004	5,586	7,539	10,371	128,684
1891	6,502	114,066	1,047	8,032	8,544	13,899	145,588
1892	7,035	124,232	1,064	7,148	9,794	12,944	155,183
1893	7,217	128,720	1,014	8,312	10,160	10,137	158,333
1894	7,212	132,919	958	9,673	10,686	10,919	165,155
1895	7,617	144,113	1,398	8,796	11,581	15,063	180,951
1896	8,077	161,551	1,469	9,962	14,160	17,601	204,743
1897	8,589	180,222	1,920	10,065	16,251	14,815	223,273
1898	9,085	189,244	2,075	9,767	17,393	14,986	233,465

TABLE 5. — ANNUAL COST PER CAPITA OF MAINTAINING SCHOOLS

FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	Janitors, Water, Heat and Light.	School Supply Expenses.	Total.	Assessors' Valuation of City.	Ratio of cost of School Maintenance to Vacation.
1885	\$16.21	\$1.98	\$1.72	\$19.91	\$24,878,400	.00392
1886	16.76	1.94	1.34	20.03	26,003,200	.00384
1887	16.68	2.37	1.45	20.50	27,469,300	.00388
1888	16.21	2.54	1.36	20.11	28,756,400	.00384
1889	16.20	2.24	1.66	20.10	30,004,600	.00399
1890	16.06	2.18	1.60	19.84	32,557,500	.00395
1891	17.54	2.71	2.14	22.39	36,843,400	.00395
1892	17.66	2.56	1.84	22.06	38,093,100	.00407
1893	17.84	2.70	1.40	21.94	41,773,600	.00379
1894	18.43	2.96	1.51	22.90	44,142,900	.00374
1895	18.92	2.86	1.98	23.76	46,506,300	.00390
1896	20.00	3.17	2.18	25.35	49,013,050	.00418
1897	20.98	3.29	1.73	26.00	50,173,775	.00444
1898	20.83	3.22	1.65	25.70	50,739,700	.00460

TABLE 6. — AMOUNT SPENT ANNUALLY FOR ALL SCHOOL PURPOSES

FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes.
1885	\$19,185	\$ 7,052	\$ 97,648	\$113,885
1886	15,515	8,706	99,865	114,086
1887	14,839	13,636	106,563	135,038
1888	4,996	13,994	110,354	129,344
1889	20,167	14,225	119,703	154,095
1890	75,775	19,168	128,684	223,627
1891	84,902	14,847	145,588	245,337
1892	12,679	17,734	155,183	176,001
1893	22,809	12,440	158,333	193,582
1894	82,206	44,764	165,155	292,125
1895	87,680	15,651	180,951	284,282
1896	61,016	33,240	204,743	298,999
1897	46,621	20,507	223,273	290,400
1898	49,983	21,274	233,465	304,722

TABLE 7. — POPULATION OF SOMERVILLE.

1842	1,013	1885	29,992
1850	3,540	1890	40,117
1860	8,025	1895	52,200
1865	9,366	1896	54,400
1870	14,693	1897	56,000
1875	21,594	1898	57,500
1880	24,985		

TABLE 8.—SCHOOL CENSUS.

Number of children in the city between 5 and 15 years of age, as reported by the truant officer, on the first of May.

1885	5,608	1892	7,191
1886	5,296	1893	7,601
1887	5,722	1894	8,040
1888	5,959	1895	8,510
1889	6,135	1896	8,885
1890	6,469	1897	9,113
1891	6,800	1898	9,845

BY DISTRICTS FOR 1898.

DISTRICT.	1897.	1898.	Increase.	Increase per cent.
East Somerville . . .	1,540	1,565	25	1.62
Prospect Hill	3,186	3,381	195	6.12
Winter Hill	1,487	1,607	120	8.07
Spring Hill	1,501	1,802	301	20.05
West Somerville . . .	1,399	1,490	91	6.50
Total	9,113	9,845	732	8.03
Between 8 and 14 . . .	5,449	5,793	344	6.31

TABLE 9.—ATTENDANCE OF THE PUBLIC SCHOOLS,
1898.

Rooms Occupied in December.	SCHOOLS.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	No. cases of Tardiness.	No. cases of Dismissal.	No. cases of Punishment.	No. Attending in January.	No. Attending in December.	Average No. to Classroom in December.	No. over 15 Years of Age.	No. Between 8 and 14 Years of Age.
4	Latin	289	271	262	96.8	123	115	0	277	271	. .	250	7
15	English . . .	633	563	539	95.8	148	72	0	571	600	37.5	580	10
12	Prescott . . .	638	491	473	96.3	123	49	22	494	535	44.1	40	416
12	Edgerly . . .	583	496	478	96.2	80	36	23	508	532	44.3	34	408
4	Davis	229	160	153	95.3	44	22	21	164	170	42.5	. .	116
12	Bell	718	576	558	96.9	98	140	10	631	553	46.0	55	481
4	Cummings . .	250	182	175	95.7	87	66	7	188	176	44.0	. .	114
13	Knapp	890	627	602	96.0	226	94	8	659	606	46.6	39	515
12	Pope	611	504	485	96.3	206	54	53	493	559	48.0	48	410
6	Prospect Hill .	310	232	212	93.0	125	25	2	218	248	41.1	1	108
4	Bennett . . .	182	143	132	91.9	112	18	6	130	162	40.5	. .	76
4	Jackson . . .	241	164	145	94.0	117	15	15	163	158	39.5	1	83
13	Forster . . .	719	583	555	95.2	60	15	12	578	619	47.6	43	435
14	Glines	823	630	594	95.0	93	15	10	645	665	47.5	40	478
8	Bingham . . .	469	364	346	95.0	66	28	14	341	405	50.6	. .	306
12	Morse	780	605	572	95.0	180	137	9	632	597	49.0	50	478
15	*Carr	111	277	262	94.5	114	50	25	. .	712	47.5	3	47
4	Durell	289	205	192	93.4	101	41	4	221	183	45.7	. .	197
1	Harvard . . .	82	44	40	91.9	50	11	0	42	37	37.0	. .	12
4	Burns	328	223	207	93.0	134	55	3	233	200	50.0	. .	189
2	Cedar-Street .	78	58	54	92.2	85	8	0	58	62	31.0	. .	32
12	Highland . .	680	546	524	96.0	92	122	4	549	579	50.0	51	357
4	Lincoln . . .	233	169	160	95.0	39	32	2	166	176	44.0	. .	151
12	Hodgkins . .	722	554	526	96.0	91	32	6	557	576	48.0	37	378
6	Hanscom . .	368	249	233	94.2	81	29	0	254	256	42.5	. .	139
0	†Franklin . .	321	169	157	93.2	266	40	0	279	. .	. .	. .	. .
209	Total	11,577	9,085	8,636	95.1	2,941	1,321	256	9,051	9,637	46.3	1,272	5,943
	Total 1897 . .	11,293	8,589	8,144	94.8	2,486	1,410	204	8,671	9,078	45.9	1,214	5,397

* 4 months.

† 6 months.

TABLE 10.—STATISTICS FOR HIGH SCHOOLS FOR
SCHOOL YEAR,
SEPTEMBER 7, 1897, TO JUNE 30, 1898.

	Latin.	English.	Both.
Number of days school kept	184	183	
Number enrolled	283	601	884
Average number belonging	273	558	831
Average daily attendance	264.8	535	799.8
Per cent. of attendance	97	95.9	96.1
Tardiness	120	130	250
Dismissals	111	80	191
In Class I. September	86	224	310
June	86	172	258
Per cent. of loss	0	23.2	16.7
In Class II. September	66	169	235
June	64	141	205
Per cent. of loss	3.3	16.5	12.7
In Class III. September	60	121	181
June	57	108	165
Per cent. of loss	5	10.7	8.8
In Class IV. September	63	82	145
June	60	77	137
Per cent. of loss	4.8	6	5.5
Special Students		15	15
Total. September	275	611	886
June	267	512	779
Per cent. of loss	2.9	*16.4	12
Number graduates, male	16	20	36
Number graduates, female	39	55	94
Total	55	75	130
Average age, male	{ 18 yrs. { 7 mo.	{ 19 yrs. { 3 mos.	{ 18 yrs. { 11 mos.
Average age, female	{ 18 yrs. { 9 mo.	19 yrs.	{ 18 yrs. { 10 mos.
Number of graduates entering college . .	27	3	30
Number of graduates entering M. I. T. .	0	2	2
No. of graduates entering normal schools .	2	7	9
Cost of instruction	\$11,921.00	\$24,843.05	\$36,764.05
Cost of supplies and equipment	789.46	3,172.16	3,961.62
Total cost	12,710.46	28,015.21	40,725.67
Cost per capita of instruction	43.66	44.52	44.24
Cost per capita of supplies and equipment	2.89	5.68	4.77
Total cost per capita	46.55	50.20	49.01

*Not including Special Students.

TABLE 11.—PUPILS IN HIGH AND GRAMMAR SCHOOLS.

	High Schools.	Grammar and Primary Schools.	Kinder- gartens.	Total.
Annual Enrollment	922	10,162	493	11,577
Average Membership	834	8,029	222	9,085
Average Attendance	801	7,650	185	8,636
Per cent. of Attendance	96.04	95.28	83.33	95.1
Number cases of Tardiness	271	2,670	. .	2,941
Number cases of Dismissal	187	1,134	. .	1,321
Number cases of Punishment . . . .	. .	256	. .	256
Membership, January, 1898	848	7,988	215	9,051
Membership, December, 1898	871	8,519	247	9,637
Average number to a teacher	27.2	46.3	24.7	46.3

TABLE 12.—NUMBER OF SCHOOLS AND PUPILS BY DISTRICTS, DECEMBER, 1898.

DISTRICT.	No. of Schools.	Number of Class- rooms.	Number of Teachers.			Number of Pupils.	Number in Ninth Grade.	Average Number to a Room.
			<i>a</i>	<i>b</i>	<i>c</i>			
East Somerville . .	4	34	2	34	1	1,493	82	43.9
Prospect Hill . . .	7	55	3	55	2	2,462	133	44.8
Winter Hill	3	35	2	35	3	1,689	104	48.2
Spring Hill	4	32	2	31	7	1,529	88	47.7
West Somerville . .	5	34	2	34	1	1,593	88	48.3
Total	23	190	11	189	14	8,766	495	46.3

a. Supervising principals.*b.* Regular teachers.*c.* Salaried assistants.

TABLE 13.—PUPILS BY GRADES, 1898.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Average Age.		Single Promotions, June, 1898.	Double Promotions in 1898.	Never in School Before.	From Other City Schools.	From Other Schools.
		Men.	Women.		Boys.	Girls.	Total.	Years.	Months.					
			Regular.	Assistants.										
Latin	Thirteenth				29	28	57	17	11					
	Twelfth				24	33	57	16	11					2
	Eleventh				32	48	80	16	4					4
	Tenth				26	51	77	15	3				72	6
	Total	3	6		111	160	271						72	12
English	Special				1	12	13	19	6.5					
	Thirteenth				36	62	98	18	4.5				3	5
	Twelfth				34	85	119	17	7.5				6	3
	Eleventh				58	95	153	16	5.4				1	15
	Tenth				91	126	217	15	8.3				211	21
Total	8	15		220	380	600							221	44
Total High School	11	21		331	540	871							293	56
Grammar	Ninth	9	13		219	276	495	14	11	368			89	21
	Eighth		12		261	292	553	14	0.5	455			80	48
	Seventh		17		335	388	723	13	1.8	514	34		113	68
	Sixth	1	17	1	382	442	824	12	4	592	7		229	82
	Fifth		21		509	441	950	11	3.5	700	2		376	128
	Fourth		22		537	499	1,036	10	0.9	789	12		230	139
Total Grammar	10	102	1	2,243	2,338	4,581			3,418	55		1,117	486	
Primary	Third		23		547	527	1,074	8	10.6	843	4		200	178
	Second		25	2	586	601	1,187	7	8	930	27	1	254	187
	First		34	6	902	775	1,677	6	2.4	985	26	1,068	334	237
	Total Primary		82	8	2,035	1,903	3,938			2,758	57	1,069	788	602
	Total Grammar and Primary	10	184	9	4,278	4,241	8,519			6,176	112		1,905	1,088
Kindergarten		5	5	127	120	247	4	5.8	125			271	1	5
Special Teachers	2	4	1											
Grand Totals	23	214	15	4,736	4,901	9,637			6,301	112	1,340	2,199	1,149	

TABLE 14.—ADMISSIONS TO FIRST GRADE IN APRIL AND SEPTEMBER, 1898.

SCHOOLS.	April.	September.	Under Five in September.
Prescott	22	37	9
Edgerly	13	26	2
Bell	14	27	1
Knapp	46	59	17
Pope	15	22	1
Forster	27	42	9
Glines	31	65	4
Morse	29	58	11
Carr . . . . .	. .	49	3
Highland	17	43	4
Hodgkins	23	51	6
Bingham	32	53	6
Davis	14	26	4
Cummings	17	33	9
Bennett	20	27	4
Jackson	4	22	. .
Franklin	16	. .	. .
Durell	15	25	2
Harvard	17	15	6
Burns	35	31	2
Cedar-Street	9	11	1
Prospect Hill	11	17	. .
Lincoln	14	46	6
Hanscom	21	45	12
Total	462	830	119

Average age of April children, 5 years 5.8 months.

Average age of September children, 5 years 6.1 months.

Of all admitted during 1898, 5 years 5.9 months.

TABLE 15.—GRAMMAR SCHOOL GRADUATES, 1898.

SCHOOLS.	Number receiving Diplomas.	Number Certificated for High School.		Number entering Latin School.		Number entering English School.		Total.	
		Conditionally.	Unconditionally.	Conditionally.	Unconditionally.	Conditionally.	Unconditionally.	Conditionally.	Unconditionally.
Prescott	36	1	31	. .	4	1	18	1	22
Edgerly	50	5	45	. .	1	. .	31	. .	32
Pope	36	8	22	. .	2	3	15	3	17
Bell	43	. .	43	. .	22	. .	18	. .	40
Knapp	28	4	24	. .	8	3	8	3	16
Forster	31	2	26	1	4	. .	18	1	22
Glines	35	8	27	1	1	3	19	4	20
Morse	46	6	35	1	13	4	19	5	32
Highland	36	3	31	. .	7	6	18	6	25
Hodgkins	41	3	36	1	7	2	22	3	29
Private . . . . .	. .	. .	. .	. .	. .	6	2	6	2
Out of town . . . . .	. .	. .	. .	. .	5	12	2	12	7
Total	382	40	320	4	74	40	190	44	264

TABLE 16.—TRUANT STATISTICS.

	1896.	1897.	1898.
Number of visits of officer to schools	364	427	415
Absences investigated	312	342	411
Cases of truancy	116	110	135
Truants arrested	16	10	7
Sent to Truant School	8	8	6
Number released during year . . . . .	. .	. .	8
Number now in Truant School . . . . .	. .	. .	9

TABLE 17. — ATTENDANCE IN EVENING SCHOOLS,
SEASON OF 1897-1898.

	Prescott	Bell.	Forster.	Highland.	Total.
Enrolled Male	52	270	31	55	408
Female	18	67	26	23	134
Total	70	337	57	78	542
Average Membership . . . Male	33	68	12	20	133
Female	13	26	19	11	69
Total	46	94	31	31	202
Average Attendance . . . Male	26	45	8	12	91
Female	10	18	13	7	48
Total	36	63	21	19	139
Per cent. Att. out of No. Belonging .	78.3	67.0	67.7	61.3	68.8
Per cent. Att. out of Enrollment . .	37.1	13.3	14.0	15.4	25.6
Number of Teachers . . . Male	2	3	2	2	9
Female	1	4	1	1	7
Total	3	7	3	3	16
Number of Sessions	75	75	31	31	. .
Teachers, Cost of	400.50	718.00	179.50	194.50	1,492.50
Janitors and Supplies, Cost of . . .	105.66	174.17	53.16	53.66	386.65
Total	506.16	892.17	232.66	248.16	1,879.15
Per Evening	6.75	11.89	7.50	8.00	34.14
Per Pupil in Average Membership .	11.00	9.49	7.50	8.00	9.30

TABLE 17 (*Concluded*).—EVENING DRAWING SCHOOL,
SEASON OF 1897-1898.

		Industrial.	Freehand.	Total.
Enrolled	Male	125	24	149
	Female	. .	36	36
	Total	125	60	185
Average Membership	Male	76	22	98
	Female	. .	33	33
	Total	76	55	131
Average Attendance	Male	57	17	74
	Female	. .	25	25
	Total	57	42	99
Per cent. of Attendance out of Number Belonging	Male	75.0	77.2	75.5
	Female	. .	75.7	75.7
	Total	75.0	76.3	75.5
Per cent. of Attendance out of Enrollment	Male	45.6	70.8	49.6
	Female	. .	69.4	69.4
	Total	45.6	70.0	53.5
Number of Teachers	Male	4	1	5
	Female	. .	2	2
	Total	4	3	7

Cost of Instruction \$1,339.00

Cost of Supplies, Janitors, and Light 400.39

Total cost \$1,739.39

Cost per pupil in average membership 13.27

Cost per Evening 36.24

Number of Sessions 48

TABLE 18.—GRAMMAR SCHOOL GRADUATES
FOR A SERIES OF YEARS.

YEAR.	Prescott.	Bell.	Forster.	Morse.	Highland.	Elderly.	Pope.	Knapp.	Hodgkins.	Glines.	Total.	Average Membership of Grammar and Primary Schools.	Per cent. of Average Membership Graduating.	Entered High School	Per cent. entering of those Graduating.
1885	51	73	28	30	29						211	4,584	4.60	155	73.46
1886	60	66	26	23	22						197	4,635	4.25	133	67.51
1887	52	67	28	37	37						221	4,849	4.56	146	66.06
1888	54	64	34	41	50						243	5,109	4.75	156	64.19
1889	59	91	48	42	41						281	5,568	5.04	169	60.14
1890	54	106	45	56	57						318	6,062	5.24	184	57.86
1891	44	73	41	55	44	39		39			296	6,035	4.90	199	67.23
1892	41	36	75	49	45	49	36	39			370	6,525	5.67	228	61.62
1893	40	60	48	63	67	46	36	38			398	6,674	5.97	240	60.30
1894	39	29	79	66	68	41	35	32			389	6,600	5.89	253	65.04
1895	36	32	58	63	73	42	36	34			374	6,955	5.37	255	68.18
1896	38	34	72	38	70	46	37	35			370	7,201	5.13	281	76.00
1897	34	39	50	48	41	29	30	25			368	7,602	4.84	273	74.19
1898	36	43	31	46	36	50	36	28			382	8,029	4.75	281	73.56
	638	813	663	657	680	342	246	231	86	62	4,418	84,359	5.24	2,893	65.48

TABLE 19.—ATTENDANCE STATISTICS
FOR A SERIES OF YEARS.

DECEMBER	ENROLLMENT.	Average Membership.	Average Attendance.	Per cent. of Attendance.	Number of Tardinesses.	Ratio of Tardiness to Average Attendance
1885	6,276	4,904	4,627	94.4	2,480	0.536
1886	6,350	4,985	4,678	93.8	2,834	0.606
1887	6,605	5,198	4,879	93.8	2,699	0.553
1888	7,262	5,488	5,174	94.0	2,938	0.549
1889	7,757	5,956	5,585	93.8	2,780	0.498
1890	7,878	6,485	6,075	93.6	3,133	0.516
1891	8,510	6,502	6,091	93.7	3,182	0.522
1892	9,120	7,035	6,608	93.9	3,181	0.481
1893	9,632	7,217	6,790	94.1	3,375	0.497
1894	9,387	7,212	6,840	94.8	3,000	0.419
1895	9,913	7,617	7,255	95.2	2,736	0.377
1896	10,582	8,077	7,663	94.9	2,743	0.358
1897	11,293	8,589	8,144	94.8	2,486	0.305
1898	11,577	9,085	8,636	95.1	2,941	0.341

TABLE 20.—MEMBERSHIP, ETC., OF HIGH SCHOOL
FOR A SERIES OF YEARS.

YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1867	2,157	119	5.51	7	0.32
1868	2,285	141	6.17	17	0.75
1869	2,480	158	6.37	25	1.01
1870	2,639	165	6.25	16	0.65
1871	2,549	161	6.31	33	1.29
1872	2,799	186	6.64	21	0.75
1873	3,217	190	5.91	28	0.87
1874	3,265	198	6.06	26	0.79
1875	3,515	213	6.06	31	0.88
1876	3,712	226	6.09	33	0.81
1877	3,788	227	5.91	37	0.98
1878	3,992	250	6.26	31	0.78
1879	4,169	246	5.90	34	0.82
1880	4,278	254	5.93	27	0.63
1881	4,064	256	6.29	34	0.84
1882	4,263	280	6.57	33	0.77
1883	4,438	278	6.26	43	0.97
1884	4,804	315	6.55	46	0.96
1885	4,904	385	7.85	46	0.94
1886	4,985	374	6.70	56	1.12
1887	5,198	387	7.44	53	1.02
1888	5,488	435	7.92	60	1.09
1889	5,956	444	7.45	67	1.12
1890	6,485	487	7.51	60	0.93
1891	6,502	535	8.23	68	1.05
1892	7,035	577	8.20	80	1.14
1893	7,217	626	8.67	82	1.14
1894	7,274	691	9.50	111	1.52
1895	7,617	775	10.17	92	1.21
1896	8,077	858	10.62	119	1.47
1897	8,589	885	10.31	121	1.59
1898	9,085	890	9.80	130	1.43

TABLE 21.—PROMOTIONS FOR SCHOOL YEAR ENDING
JUNE 30, 1898.

GRAMMAR AND PRIMARY SCHOOLS.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Left Behind.	Promoted more than one Grade.	Special Promotions between September and June.	Promotees Dropped Back after three months' trial.
I.	1,417	956	100	335	26	29	9
II.	1,121	871	93	130	27	4	12
III.	1,015	809	105	97	4	18	17
IV.	903	685	111	95	12	7	12
V.	872	673	91	106	2	5	15
VI.	752	561	92	92	7	3	3
VII.	636	434	101	67	34	6	4
VIII.	548	393	100	55	0	6	7
IX.	388	320	40	28	0	1	3
Total	7,652	5,702	833	1,005	112	79	82

PERCENTAGE OF PROMOTIONS FOR SCHOOL YEAR
ENDING JUNE 30, 1898.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Left Behind.	Promoted more than one Grade.	Special Promotions between September and June.	Promotees Dropped Back after three months' trial.
I.	100	67.4	7.1	23.6	1.9	. .	9.0
II.	100	77.7	8.2	11.6	2.5	. .	12.9
III.	100	79.7	10.3	9.6	0.4	. .	16.2
IV.	100	75.9	12.3	10.5	1.3	. .	10.9
V.	100	77.2	10.4	12.2	0.2	. .	16.5
VI.	100	74.6	12.2	12.2	1.0	. .	3.3
VII.	100	68.2	15.9	10.5	5.4	. .	4.0
VIII.	100	71.7	18.2	10.0	0.1	. .	7.0
IX.	100	82.0	10.3	7.2	0.5	. .	7.5
Total	100	74.5	10.9	13.1	1.5	. .	9.8

TABLE 22.—RESIGNATIONS OF TEACHERS, 1898.

SCHOOL.	Teacher.	Time of Resignation.	In Service.
English High	Lyman C. Newell	March 28	2 yrs. 7 mos.
Prescott	Addie V. Hoyt	“ 28	1 yr. 7 mos.
Bell	Mary A. Bradford	April 25	9 yrs. 8 mos.
Bell	Mary S. Rinn	“ 25	9 “
Morse	Ella J. Holmes	May 31	3 “
Franklin	Caroline S. Plimpton	“ 31	39 “
English High	Alice F. Davenport	“ 31	3 “
Glines	Grace Woodbury	June 27	1 yr.
Cummings	Lena B. Blaikie	Aug. 29	8 yrs.
Hodgkins	May E. Barker	“ 29	1 yr. 6 mos.
Forster	Mary A. Worden	“ 29	3 yrs.
Prescott	Elgina M. Plummer	Sept. 26	21 “
Pope	Clara M. Wheeler	Oct. 31	3 “
Knapp	Ida B. Mason	“ 31	3 “
Music	Gish Garwood	June 27	7 “
Highland	Sarah C. Linscott	Nov. 25	1 yr. 4 mos.
Edgerly	Clara B. Cutler	Dec. 12	6 yrs.
Hodgkins	Mary S. Lawrence	Died	3 “ 4 mos.
Edgerly	Clara M. Bagley	“	25 “

TABLE 23.—TEACHERS ELECTED IN 1898.

SCHOOL.	Teacher.	Coming From	Date.	Salary.
English High .	George J. Pfeiffer	Harvard University	Mar. 28	\$1,200
Carr . . .	Chas. G. Ham	Watertown	May 31	1,900
Edgerly . .	Mary A. Coyle	Needham	" 31	600
Glines . . .	Nellie E. Briggs	Attleboro	" 31	600
English High .	Etta A. Seaver	No. Easton	June 27	800
English High .	Mary F. Carrick	Chelsea, Natick	" 27	900
Prescott . .	Mattie L. Littlefield	Somerville	" 27	500
Bell	Mary F. Lyman	Willimantic, Ct.	" 27	600
Carr	Blanche E. Townsend	Newton	" 27	675
Carr	Anne E. Bragdon	Watertown	" 27	600
Carr	Mabel A. Mann	Everett	" 27	600
Carr	Charlotte M. Jepson	Everett	" 27	600
Prescott . .	Elizabeth L. Marvin	Wellesley	Sept. 26	600
Hanscom . .	Helen G. Frye	Medford	" 26	600
Edgerly . . .	Helen M. Blaisdell	Minneapolis, Minn.	" 26	600
Glines	M. Eva Warren	Waltham	" 26	600
Forster . . .	Minnie L. Burglund	Omaha, Neb.	" 26	600
Hodgkins . .	Maud M. Hartwell	Lewiston, Me.	" 26	600
Carr	Jennie E. Sutherland	Salem	Dec. 30	600
Carr	Susie L. Luce	Somerville	June 27	600
Carr	Bessie A. Dadmun	Somerville	" 27	600
Carr	Florence B. Howland	Somerville	Dec. 30	600
Music	Charlotte D. Lawton	Somerville	Sept. 26	900

TABLE 24.—TRANSFERS OF TEACHERS.

TEACHERS.	From	To
Martha M. Power	Hanscom	Edgerly
Angeline Cann	Prospect Hill	Cummings
Sarah I. Beard	Bennett	Prospect Hill
Lila G. Gray	Bell	Bennett
Alice A. Beckwith	Morse	Bingham
Harriet A. Hills	Franklin	Carr
Marion P. Crawford	"	"
Elizabeth S. Foster	"	"
Mary A. Haley	Morse	"

TABLE 25.—LEAVE OF ABSENCE OF TEACHERS.

April 30. Clara B. Cutler, for two months.
 June 1. Carrie A. Marsh, for one year.
 Sept. 1. Lennie W. Bartlett, for one year.

TABLE 26.—TIME LOST BY TEACHERS IN 1898.

SCHOOLS.	Number of Teachers.	Days Lost.	Days per Teacher.
Latin High	9	21	2.3
English High	23	84	3.6
Prescott	13	32½	2.5
Edgerly	13	13½	1.0
Davis	4	12	3.0
Bell	13	58	4.4
Cummings	4	9	2.2
Knapp	14	33½	2.4
Pope	13	20½	1.6
Prospect Hill	7	13½	2.0
Bennett	4	10	2.5
Jackson	5	24	4.8
Forster	14	94	6.7
Glines	16	38½	2.4
Bingham	10	15	1.5
Morse	14	72½	5.2
Franklin	10	14½	1.5
Carr	20	½	0.3
Durell	4	13	3.2
Harvard	1	0	0.0
Burns	4	50½	12.6
Cedar-St.	2	9½	4.7
Highland	13	35½	2.7
Lincoln	4	63½	15.9
Hodgkins	14	41	3.0
Hanscom	7	4½	0.6
Special	7	26½	3.8
Totals	252	810	3.2

TABLE 27.—NUMBER OF TEACHERS
FOR A SERIES OF YEARS.

YEAR.	High School.	Grammar School.	Primary School.	Special Teachers.	Assistants not in charge of room.	Men.	Women.	Total.
1885	9	63	48	1	0	10	111	121
1886	9	62	48	1	0	9	111	120
1887	10	64	48	1	0	9	114	123
1888	10	66	52	4	7	9	130	139
1889	10	60	56	4	7	10	127	137
1890	10	78	58	5	7	12	146	158
1891	12	86	63	5	13	12	167	179
1892	13	90	67	5	10	12	173	185
1893	14	88	63	5	19	12	177	189
1894	15	91	66	6	11	12	177	189
1895	28	91	73	5	12	19	186	209
1896	30	102	74	6	14	22	208	230
1897	31	109	85*	6	18	22	227	249
1898	32	112	87*	7	13	23	229	252

* Five Kindergartners.

TABLE 28.—BOOKS AUTHORIZED FOR USE, 1898.
FOR GRAMMAR AND PRIMARY SCHOOLS.

Book III, Cecilian Series,	For Seventh grade
Stepping Stones to Literature,	Supplementary
Cyr's Third Reader.	
Cyr's Fourth Reader.	

FOR HIGH SCHOOLS.

Studies in English Composition,	Keeler & Davis
Course in Mechanical Drawing,	Tracy
Student's American History,	Montgomery
Student's History of United States,	Channing
Exercises in English,	Beuhler
Classical Wall Maps,	Keipert

FOR ALL SCHOOLS.

Rand and McNally's Outline Wall Maps.

TABLE 29.—GRADUATION EXERCISES, 1898.
HIGH SCHOOLS.

The graduation exercises of the High schools occurred on Tuesday evening, June 28, at the First Methodist Episcopal Church, in the presence of a large audience of parents and friends.

The address to graduates was given by Rev. Robert. S. MacArthur, D. D., of New York.

At the close of the address, His Honor, Mayor Perry, presented diplomas to the 130 members of the graduating classes.

The graduation exercises were followed by a reception to the graduates and their parents given by the School Board, at which about 500 were present.

ORDER OF EXERCISES.

- Grand March. "Tannhäuser." Wagner
Hadley's Orchestra.
1. * Chorus. Hallelujah. "Mount of Olives." Beethoven
 2. Prayer.
Rev. Isaac P. Coddington.
 3. Three-part Song. "The Twilight Star." Barnby
(Girls' voices. Instrumentation by S. Henry Hadley.)
 4. Address to Graduates.
"Subject: "Elements of Success in Life."
Rev. Robert S. MacArthur, D. D., of New York.
 5. Unison Song. "Erlkönig." Schubert
(In German.)
 6. Presentation of Diplomas.
Mayor Albion A. Perry.
 7. * Chorus. (In unison.)
"Egyptian War Song." Sébek Hétep. H. K. Hadley
(Conducted by the composer.)

* Accompanied by Hadley's Orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

LATIN HIGH SCHOOL GRADUATES.

Lilla Marion Alger.	Ella Frances Murdock.
Lida Bethia Belcher.	Emma Franklin Paul.
Estelle Bray.	Bertha Angilene Putney.
Mae Ellis Brock.	Ethel May Smith.
Ethel Browne.	Myrtle Smith.
Josephine Rosamond Burke.	Florence Parker Stoddard.
Ruth Paul Capen.	Marian Lucy Titus.
Mary Emily Carr.	Maud Russell Tousey.
Florence Sydney Bull Clarke.	Florence Gertrude Williams.
Florence Baxter Cochran.	Oenone Louise Williams.
Lillian Mae Cuddy.	Eleanore Josephine Wingsky.
Lena Mae Dickinson.	Susan Coolidge Woodman.
Eda Florence Dolliver.	Charles Merritt Ambrose.
Charlotte Cordelia Eldridge.	William Thomas Coveney.
Effie Mae Fife.	Burt Raymond Gage.
Mabelle Pennell Foster.	Moses Aaron Gunsenhiser.
Mabel Florence Fuller.	Frederic Kennard Jones.
Susie Lillian Hammett.	Forrest Sumner Lunt.
Susie Myrtle Hanson.	Thomas Francis McGann, Jr.
Marion Colby Kendall.	Albert Lincoln Pearson.
Margaret Abbie Lakin.	Bradford Hendrick Peirce.
Ada Estelle Lawson.	Royal Kellum Peirce.
Charlotte Elizabeth Leavitt.	Henry James Ryan.
Blanche Elizabeth Lyon.	Andrew Edward Scott.
Agnes Irene McCoy.	Percy Channing Smith.
Janie Almira Millner.	William Claude Stephenson.
Florence Elizabeth Mitchell.	Malcolm Eben Sturtevant.
	Donald Graves Tead.

ENGLISH HIGH SCHOOL GRADUATES.

- | | |
|-------------------------------------|--------------------------------|
| Marie Louise Ambrose. | Bessie Edna Howe. |
| Calla Ely Belcher. | Bertha Ella Lyman. |
| Mary Gertrude Blackwell. | Ida May Lynam. |
| Florence Amy Bone. | Elizabeth Emma Marshall. |
| Mabel Frances Bossey. | Agnes Mabel Moore. |
| Ellen Gertrude Bowen. | Mabel Alen Nye. |
| Ella May Burgess. | Mabel Maria Paine. |
| Lillian Isabelle Cameron. | Ethel Bennett Pitman. |
| Helen Damon Carr. | Etta Frances Pratt. |
| Annie Clewley Clifford. | Minnie Elizabeth Price. |
| Agatha Gertrude Frances
Commins. | Maude Frances Quinn. |
| Mabel Vesta Coney. | Florence Addie Russell. |
| Mary Emma Cox. | Grace Lane Smith. |
| Gertrude May Pearl Currier. | Ethel Hoffman Sparrow. |
| Ruby Helen Currier. | Jennie Louise Stentiford. |
| Mabel Katharine Davis. | Vivian Lynell Stevens. |
| Martha Louise Desmond. | Ellen Tamour Stone. |
| Louise Hewitt Dickinson. | Bertha Watson Studley. |
| Nellie Etta Drake. | Edna Florence Thresher. |
| Gertrude Sophia Dugan. | Gertrude Curtis Lamper Vasque. |
| Laura Mehitable Eastman. | Lilla May Walker. |
| Clara Isabelle Eddy. | Agnes Kirkwood Wallace. |
| Adelaide Rebecca Edmands. | Marion Ruth White. |
| Helen Augusta Fitzgerald. | Florence Young. |
| Alice Porter French. | Warren Jenerson Baldwin. |
| Jessie Florence Grieves. | Ralph Ordway Brooks. |
| Maud Lee Hall. | Clarence Edwin Cate. |
| Matie Louise Hardison. | Louis Follett Crowell. |
| Eva Ellen Hathaway. | Albert Garfield Crowley. |
| Edith Bancroft Hayes. | William Fitch Cutter. |
| Ida Carlotta Hilt. | Charles Joseph Fulton. |
| | Harry Langdon. |

Arthur North Makechnie.	Ernest Alexander Saunders.
Albert Jackson Meserve, Jr.	Bernard Joseph Sheridan.
Willard Arthur Palmer.	Herbert Edwin Stone.
Frank James Pushee.	Harry Marr Stoodley.
Alfred Sanborn Rich.	Duncan Wemyss.
Albert Willard Wormwood.	

TABLE 30.—GRAMMAR SCHOOL GRADUATES.

The graduation exercises of the Grammar schools were held at the First M. E. Church, Union square, on Thursday evening, June 30. Three hundred and eighty-two graduates received diplomas at the hands of His Honor, Mayor Perry. The following is the

ORDER OF EXERCISES.

PART FIRST.

- Overture — “A Morning, Noon, and Night in Vienna.” Suppé
(’Cello Solo by Arthur D. Hadley.)
Hadley’s Orchestra.
1. Chorus — “Football Day” (vocal march). G. A. Veazie
(Instrumentation by S. Henry Hadley.)
 2. Prayer.
Rev. William B. C. Merry.
 3. Patriotic Anthem — “Columbia.” Victor Herbert
 4. Address.
Rev. Thomas Van Ness, of Boston.

PART SECOND.

5. Hallelujah Chorus — “Messiah.” Handel
6. Presentation of Diplomas.
Mayor Albion A. Perry.
7. Four-part song — “Good Night, Beloved.” Pinsuti

Singing accompanied by Hadley’s Orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

NAMES OF GRADUATES.

PRESCOTT SCHOOL.

Hattie M. Baker.	Louise E. Messer.
Cora L. Braxton.	Ethel B. Morris.
Agnes L. Brown.	George E. Perry.
Henrietta Brown.	Chester A. Peterson.
Flora M. Byam.	Albert Phillips.
Fred. D. Clement.	Ida L. Rand.
Jeannette F. Craig.	Beulah L. Rice.
Dalton H. Davis.	Hollis L. Robbins.
Harry J. Ennis.	Lottie M. Robinson.
Cora S. Fitch.	Richard H. Scott.
Julia M. Flaherty.	Ernest B. Small.
Helen E. Frye.	Estelle C. Spicer.
Julian E. Glidden.	Fred E. Tarbox.
Aline L. Hanscom.	Lillian E. Tolman.
Lauretta Kelley.	Everett G. Wentworth.
Alice L. Kimpton.	James G. Whiting.
Nathaniel A. Knight.	Joseph F. Wilber.
Ethel M. Knowles.	Edwin A. Wright.

EDGERLY SCHOOL.

Gilbert G. Baker.	Frank M. Gracey.
Florence L. Bemis.	Blanche N. Hall.
Laurence Cain.	Henry T. Holland.
George C. Clement.	Harold B. Hodgdon.
Alice M. Coleman.	Lester R. Holland.
Marguerite V. Crocker.	Blanche L. Holman.
George H. Crosby.	Edna M. Holmes.
Royal B. Farnum.	Irene A. Horton.
Grace M. Field.	Willis A. Hubbard.
Ardies N. Glaister.	Laura Hughes.

Florence N. King.	Sarah A. Shaw.
Clara K. Linnell.	George Smith.
Winnie V. Macdonald.	Chester D. Southworth.
Elizabeth Maddox.	Arthur M. Stewart.
Gertrude F. McCarthy.	Daniel V. Stewart.
Edith B. Miller.	Ida M. Stodder.
Mary Mooney.	Edith C. Whiddon.
William S. Murdoch.	Ruby G. White.
Nellie Murray.	Frank S. Whitney.
Emma B. Nichols.	Lena H. Whitney.
Edrick R. Nickerson.	Albert B. Wing.
Grace A. Porter.	Grace M. Wing.
Ella O. Pratt.	Eliot I. Wingersky.
Reuben P. Prichard.	Georgiana S. Wright.
Minnie Schmeiser.	Annie F. Wilson.

LUTHER V. BELL SCHOOL.

Arthur L. Armstrong.	Bertha E. Dillon.
Florence M. Baldwin.	Robert J. Eberts.
Lillian H. Baldwin.	Mary P. Felch.
Florence L. Black.	Nellie P. Field.
Gertrude J. Blaisdell.	Iva H. Grant.
Rita F. Brackett.	Estella W. Grove.
Bertha E. Brown.	Mary J. Jackson.
Harold A. Butters.	Lizzie B. Landers.
Eola B. Carter.	Clara W. Macomber.
Julia T. Conner.	Isabelle G. McFadden.
Sarah G. Copithorne.	Pierce P. McGann.
Elizabeth G. Crooks.	Carle J. Merrill.
George L. Cuddy.	Esther W. Merrill.
Frank E. Currier.	A. Leonard O'Leary.
William J. Daley.	Emmalena E. Pennie.
Nellie G. Dearborn.	Roger V. Pettingell.

Marion E. Ralph.	Minnie T. Stapleton.
Alfred J. Saunders.	Jennie B. Trench.
Louise M. Saunders.	Winifred M. Trueman.
Charles F. Shepard.	H. Lottie Yelland.
Charles W. Shepherd.	Louis H. Yelland.
Elbert L. Yorke.	

OREN S. KNAPP SCHOOL.

Cora Adams.	John L. Lawson.
Martha L. Alfonse.	Silva L. Lescarbeau.
Mabel G. Craig.	Gertrude K. Lord.
Marion Daniels.	Gardner S. MacQuarrie.
Edna M. Devine.	Edith F. Mulliken.
Joseph A. Dias.	Margaret M. Nason.
Theresa C. Fitzgerald.	Grace R. Olin.
Dorothy M. Franke.	Blanche L. Paine.
Gertrude E. Gallagher.	Henry W. Robertson.
Blanche Gilberth.	Henry L. Ryan.
Edith M. Green.	Edward S. Sheridan.
Cora L. Hull.	L. Mabel Smith.
John W. Irving.	Elizabeth E. Sullivan.
Theresa P. Irving.	Gertrude M. Waugh.

CHARLES G. POPE SCHOOL.

Grace G. Allen.	Eliene C. Fleischer.
Millie E. Bacon.	Charles W. Gilmore.
Charlotte E. Boynton.	Harry W. Gordon.
Charles F. Campbell.	Edith S. Haradon.
Janet C. Christie.	James J. Hepburn, Jr.
Ada V. Clapham.	Charles Higgens.
Gertrude F. Cushing.	Lizzie F. Higgins.
N. Blanche Daniels.	James H. Hurter, Jr.
Albert H. Fairbanks.	Alice N. Jones.

Eleanor G. Luscomb.	Lura E. Sargent.
Jennie F. Noonan.	Jennie E. Smith.
Thomas OConnell.	Minnie C. Stentiford.
Howard E. Odiorne.	Ethel P. Sturtevant.
Harriet A. Osborne.	George H. Sturtevant.
Lillian M. Reading.	Velma E. Tyler.
Clifford T. Richardson.	Grace F. White.
Milbury H. Ryder.	Mabel V. Wile.
Eva M. Sanborn.	Axel E. Zetterman.

FORSTER SCHOOL.

Vivianna C. Andersen.	Edith F. Johnson.
Helen A. Barker.	Lora E. Komenda.
Ruth M. Bickford.	Thomas F. Lucas.
J. May Boynton.	Edna F. Morley.
Grace D. Bryant.	J. Clare Moulton.
John D. Carroll.	Ralph Nason.
Lillian R. Crowley.	John W. O'Neil.
Florence B. Darling.	Octavia M. Perkins.
Nellie L. Donahue.	Nellie A. Pigott.
Walter H. Duncan.	Gertrude A. Rogers.
Hannah M. Everett.	Charles A. Russ.
Ida M. Fenderson.	Lotta L. Russell.
Mary E. Grimes.	Maude B. Simes.
Sophie K. Hammer.	George G. Smith.
Lillian Henderson.	Ella N. Todd.
	Edith B. Winn.

JACOB T. GLINES SCHOOL.

Annie M. Coveney.	Gorham W. Harris.
H. Palmer Foster.	Ruby L. Harrison.
Elbern Freeman.	Kate E. Hilliard.
Mary S. Haggerty.	Percival J. Holmes.

Ellen M. Hunt.	Francoise Paon.
Joseph W. Hyde.	Mabelle F. Pote.
Ethel C. Kammerer.	Jessie G. Rideout.
Ida M. Kane.	Frank W. Ross.
Arthur C. Krueger.	Gertrude M. Silva.
Harold B. Lamont.	Ferdinand B. Smith.
Mildred F. Lincoln.	Grace E. Spike.
Henrietta McConnell.	Octavia A. Stewart.
Elizabeth A. McLaughlin.	Walter C. Stickney.
Howard H. McLeod.	Clarence G. Stone.
Roy P. Marble.	Everett G. Stone.
Charles P. Marston.	Adelaide B. Tomfohrde.
William A. Murray.	Bowen Tufts.
	Percy H. Underhill.

MORSE SCHOOL.

Mabel A. Baird.	Edna C. Grant.
Elin O. Bengtson.	Gertrude M. Grant.
James A. Butler.	Gertrude Griffiths.
Chester W. Butterworth.	George R. Grover.
Ethel G. Cambridge.	Walter J. Kennedy.
Alice M. Commins.	Grace L. LeGro.
Bessie A. Conboy.	H. Delano Loring.
Annie E. Connors.	Grace Massey.
Edna G. Crowell.	Mildred A. Merrill.
George M. Davis.	S. Edith Moses.
Isabel L. Drady.	Guy P. Moses.
Natalie M. Eldridge.	Berkeley W. Mossman.
Harry R. Ells.	John R. Nichols.
Margaret L. Fitzsimmons.	Edward B. Nolan.
May B. Garland.	H. Stuart Nolan.
Albert J. Good.	James A. Potter.
R. Henry Good.	G. Waldo Proctor.

Alice C. Rand.
 F. Keeler Rice.
 Jessie Richards.
 Ellen S. Ringdahl.
 Jessie K. Shearer.
 Ray E. Shedd.

Bessie S. Slack.
 Joseph M. Story.
 Annie M. Trustenitzer.
 Arthur D. Whitman.
 Ethel P. Whitton.
 Carrie E. Winfield.

HIGHLAND SCHOOL.

Elizabeth T. Baldwin.
 Florence B. Bartlett.
 Christina F. Blair.
 Alexina L. P. Bowlby.
 Helen H. Bowlby.
 Robert B. Chapin.
 Chester F. Colcord.
 William E. Coman.
 Elizabeth C. Crocker.
 Violet Z. Dupont.
 Roderic E. Field.
 Clifford G. Foskett.
 Clinton I. Foskett.
 Grace B. Gilman.
 William N. Goode.
 Charles B. Gray.
 Albert E. Hughes.
 Clinton I. Jackson.

Ethelyn L. Jones.
 Blanche I. Jouett.
 John E. Keating.
 Marguerite Lawrence.
 Reuben W. Mead.
 Laila C. Nye.
 Helen W. Pynn.
 Lottie L. Rice.
 Sadie B. Salsman.
 Mary A. Sharkey.
 Josephine C. Shea.
 Jessica B. Staniford.
 Frederick G. Thornton.
 Zula M. Upham.
 Nellie G. Winther.
 Emma L. Witham.
 Claribel L. Wood.
 Frank G. Yeaton.

WILLIAM H. HODGKINS SCHOOL.

Florence E. Backus.
 John A. Backus.
 J. Chandler Ball.
 Florence A. Burt.
 Etta M. Calley.

Frank S. Chase.
 Ralph D. Cleverley.
 Harry E. Cook.
 Beulah D. Cutler.
 George H. Darling.

Mabel D. Dodge.	Mary C. Molineaux.
Annie M. Duhn.	Frank Mulloney.
Mary T. Dwyer.	Persis C. Olney.
Henry L. Emerson.	J. Dale Outhouse.
Edgar G. Fisher.	Virginia C. Phelan.
Chester O. Fleischner.	Leslie B. Phillips.
Herbert E. Fleischner.	Ruth Richards.
Julia A. Frazier.	John H. Savage.
Mabel E. Hutt.	Mary L. Smith.
Lottie B. Joscelyn.	Clyde E. Steeves.
Grace E. Lamont.	Frank E. Studley.
Caroline M. Lyon.	Adele H. Tribble.
Lulu A. Marshall.	Owen L. Trefren.
Bessie F. Mason.	Fritz Wallstrom.
Bertha E. Mauch.	Jessie L. Weeks.
	Alice G. Wilkins.

TABLE 31.—TEACHERS IN SERVICE DECEMBER, 1898.

NAME.	Residence.	Salary.	Beginning of Service.
LATIN HIGH SCHOOL.			
<i>George L. Baxter</i> , Head Master,	27 Warren ave.	\$2,500	1867
Frank M. Hawes, Master,	257 School st.	2,000	1879
Charles T. Murray, Sub-Master,	28 Franklin st.	1,700	1887
Sarah W. Fox,	99 Irving st., Cambridge.	1,200	1868
Frances W. Kaan,	12 Pleasant ave.	1,000	1882
Eudora Morey,	61 Hemenway st., Boston.	900	1882
Mrs. Lena Gilbert,	51 Elmwood st.	900	1893
Florence H. Paul,	120 Summer st.	900	1894
R. Adelaide Witham,	62 Highland ave.	850	1897
ENGLISH HIGH SCHOOL.			
<i>Charles T. C. Whitcomb</i> , Head Master,	12 Highland ave.	\$2,500	1895
Winfred C. Akers, Master,	24 Crocker st.	1,900	1896
Merle S. Getchell, Sub-Master,	149 Sycamore st.	1,350	1895
Everett W. Tuttle “	Hotel Colson.	1,700	1895
John A. Avery “	68 Columbus ave.	1,350	1895
Harry L. Jones, Junior Sub-Master,	157 Highland ave.	1,100	1896
George J. Pfeiffer “ “	Bartlett ave., Arlington.	1,200	1898
Howard W. Poor “ “	34 Bow st.	1,100	1896
A. Marion Merrill,	62 Highland ave.	1,150	1895
Mary P. Anderson,	61 Walnut st.	900	1895
Esther Bailey,	1172 Mass. ave., Arlington.	900	1894
A. Laura Batt,	62 Highland ave.	900	1895
Mary F. Carrick,	27 Belvidere st., Boston.	900	1898
Laura A. Davis,	The Caldwell, Arlington.	850	1897
M. Jessamine Dixon,	122 Orchard st.	1,200	1895
Mary P. Hitchcock,	39 Cedar st.	900	1895
Lucy Ingram,	13 Pleasant ave.	900	1894
Clara A. Johnson,	177 Central st.	850	1897
Eda L. Nichols,	54 Vinal ave.	900	1895
Susie L. Sanborn,	13 Pleasant ave.	900	1896
Etta A. Seaver,	60 Vinal ave.	800	1898
Maria B. Smith,	14 Spring Hill terrace.	1,000	1894
M. Helen Teele,	23 Central st., Arlington.	900	1895
STUDENT TEACHERS.		Graduate of	
Martha E. Vincent,	Radcliffe, '98.		
Helen F. Tredick,	Smith, '97.		
Alice A. Todd,	Smith, '98.		
Frederick G. Getchell,	Colby, '98.		
Bertha A. Raymond,	Emerson College, '96.		
Bessie L. Forbes,	English High School, '97.		
Lillian Newman,	Mass. Normal Art, '95-'98.		
Norma Peirce,	“ “ “ '96-'97.		
Harry E. Rich,	“ “ “ '98.		

TABLE 31.—TEACHERS IN SERVICE DECEMBER, 1898.—*Continued.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
PRESCOTT.				
9	<i>Samuel A. Johnson</i> , Master,	91 Perkins st.	\$1,900	1893
9	Anna M. Bates,	102 Bridge st., Salem.	700	1874
8	Emma M. Cate,	5 Fletcher st., Winchester.	600	1882
7	Elizabeth M. Warren,	92 Myrtle st.	600	1897
6	Abbie A. Anderson,	1 Pearl st.	600	1878
6	Amelia I. Sears,	20 Pinckney st.	600	1873
5	Grace L. Shaw,	248 Medford st.	600	1892
5	Catherine T. Brown,	61 Myrtle st.	600	1868
4	Clara Taylor,	36 Flint st.	600	1871
3	Elizabeth L. Marvin,	183 West Canton st., Boston.	600	1898
2	Louise E. Pratt,	49 Myrtle st.	600	1889
1	Minerva L. Mills,	170 Pearl st.	600	1897
1	Mattie L. Littlefield,	65 Glen st.	500	1897
SANFORD HANSCOM.				
4	<i>Lina F. Bates</i> , Principal,	148 Broadway.	\$725	1897
3	P. M. Pigeon,	31 Warren ave.	600	1897
2	Carrie A. Pond,	49 Myrtle st.	600	1897
1	Helen G. Frye,	43 Sargent ave.	600	1898
1	Lina E. Dill,	143 Perkins st.	600	1897
K'g'n	Caroline Boardman,	281 Dartmouth st., Boston.	600	1897
Ass't	Josephine M. Kimball,	33 Warren ave.	350	1897
DAVIS.				
4	<i>Frances Meldrum</i> , Principal,	6 Highland ave.	\$675	1896
3	Abbie J. Prouty,	45 Greenville st.	600	1897
2	Carrie T. Lincoln,	41 B Franklin st.	600	1893
1	P. A. Merritt,	96 Oxford st.	600	1885
EDGERLY.				
9	<i>Charles E. Brainard</i> , Master,	113 Glen st.	\$1,900	1889
9	Clara B. Cutler,	Main st., Bedford.	675	1892
8	Annie L. Dimpsey,	11 Forster st.	600	1891
7: 8	Helen E. Blaisdell,	72 Rush st.	600	1898
7	Mary E. Richardson,	224 Broadway.	600	1893
6	Mabel C. Mansfield,	224 Broadway.	600	1893
6	Isabelle M. Gray,	23 Webster st.	600	1897
5	Harriet E. Roxbury,	70 Glen st.	600	1897
5	Mary E. Coyle,	70 Glen st.	600	1898
4	Maria A. True,	116 Pearl st.	600	1895
3	Alice M. Dearing,	34 Rush st.	600	1890
2	Lillian Nealley,	109 Glen st.	600	1882
1	Martha M. Power,	37 Gleason st., West Medford.	600	1891
BINGHAM.				
6	<i>Harry F. Hathaway</i> , Principal,	31 Vinal ave.	\$1,000	1890
Ass't	Carrie F. Hathaway,	31 Vinal ave.	360	
5	Elizabeth J. O'Neil,	505 Broadway.	600	1894
4	Mabel E. Perry,	432 Medford st.	600	1896
4	Harriet F. Ward,	87 Sycamore st.	600	1895
3	Emma F. Bradley,	7 Buckingham st.	600	1896
2	Rose O'Loughlin,	8 Washington ave., Stoneham.	600	1896
1: 2	Alice A. Beckwith,	13 Brastow ave.	600	1897
1	Mabel E. Mansir,	77 Albion st.	600	1891
Ass't	Mattie J. Connolly,	12 Cutter st.	275	1898

TABLE 31.—TEACHERS IN SERVICE DECEMBER, 1898.— *Continued.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
LUTHER V. BELL.				
9	<i>Harlan P. Knight</i> , Master,	37 Stone ave.	\$1,800	1897
9	Alice L. Davis,	13 Pleasant ave.	675	1895
8	Mary F. Lyman,		600	1898
7	Nellie S. Dickey,	20 Spring Hill terrace.	600	1889
7	Grace E. Weeks,		600	1899
6	Mabel T. Totman,	11½ Sanborn ave.	600	1892
6	Maribelle Curtis,	22 Bonner ave.	600	1895
5	Emma F. Schuch,	25 Tufts st.	600	1874
5	Ada F. Fernald,	12 Miner st.	600	1893
4	Ella H. Bucknam,	10 Putnam st.	600	1897
3	Edith J. Holden,	25 Lowell st., Reading.	600	1893
2	Martha E. Daniels,	93 Concord ave.	600	1891
1	E. Lorette Schuch,	25 Tufts st.	600	1882
BENNETT.				
3	<i>Mary B. Smith</i> , Principal,	19½ Alston st.	\$675	1885
2	Kathryn C. Connolly,	18 Quincy st.	600	1897
1	Miriam Cavanagh,	10 Grand View ave.	600	1893
1	Lila G. Gray,	71 Wallace st.	500	1897
CHARLES G. POPE.				
9	<i>George M. Wadsworth</i> , Master,	23 Monroe st.	\$1,900	1891
9	Florence A. Chaney,	68 Warrenton st., Boston.	675	1892
8	Harriet M. Clark,	10 Vernon st., West Medford.	600	1893
7	Alice I. Norcross,	26 Russell ave., Watertown.	600	1885
6	Eleanor M. Varney,	122 Auburn st., Cambridgeport.	600	1897
6:7	Blanche G. North,	8 High st.	600	1893
6	Minnie A. Blood,	10 Putnam st.	600	1897
5	Lizzie W. Parkhurst,	22 Highland ave.	600	1885
5	Susan G. Meldrum,	6 Highland ave.	600	1896
4	Annie G. Sheridan,	84 Prospect st.	600	1886
3	Lillian S. Albee,	42 Walnut st.	600	1888
2	Florence E. Locke,	Prospect Hill ave.	600	1898
1	Ella M. Robinson,	56 Boston st.	600	1899
CUMMINGS.				
4	<i>Lydia J. Page</i> , Principal,	21 Webster ave.	\$675	1869
3	Fannie L. Gwynne,	65 School st.	600	1886
2	Angeline Cann,	Wakefield.	600	1897
1	Elizabeth L. Hersey,	50 Richdale ave.	600	1897
HIGHLAND.				
9	<i>George E. Nichols</i> , Master,	26 Loring st.	\$1,900	1877
9	M. Alice Paul,	122 Orchard st.	675	1879
8	Mabel A. Jepson,	232 Elm st.	600	1892
7:8	S. Adelaide Blood,	Washington st., Ayer.	600	1882
7	Cora B. Wheeler,	39 Chester st.	600	1896
7	Grace M. Clark,	10 Vernon st., West Medford.	600	1893
6	Mina P. Bickford,	Park st., Medford.	600	1899
5	Jennie C. Frazier,	56 River st., Boston.	600	1887
4	Sarah E. Pray,	28 Quincy st.	600	1878
3	Mary H. Joyce,	76 Boston st.	600	1891
2:3	Alice T. McNamara,	34 Newbury st., Boston.	600	1895
1:2	Jennie M. Horner,	37 Morrison st.	600	1888
1	Katherine E. Hourahan,	12 Grove st.	600	1892

TABLE 31.—TEACHERS IN SERVICE DECEMBER, 1898.— *Continued.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
FORSTER.				
9	<i>Fred C. Baldwin</i> , Master,	25 Browning road.	\$1,900	1893
9	Mary E. Bunton,	13 Lee st.	675	1894
9:8	Irena S. Nightingale,	14 Court st., Arlington.	675	1895
8	Minnie L. Burglund,	37 Madison st.	600	1895
7	Fanny E. Jennison,	23 Ames st.	600	1896
7	Sarah L. Copeland,	23 Ames st.	600	1896
6	Elizabeth F. Clement,	29 Kidder ave.	600	1884
5	Lucy K. Hatch,	72 Marshall st.	600	1892
4	Elizabeth S. Brown,	9 Parker st., Chelsea.	600	1897
3	Maud L. Kent,	18 Maple ave.	600	1893
3:2	Annie S. Gage,	32 Marshall st.	600	1883
2	E. Mina Smith,	22S Medford st.	600	1896
1	Grace Shorey,	23 Forster st.	600	1892
1	Mrs. Mary J. Richardson,	151 West Canton st., Boston.	600	1895
GEORGE W. DURELL.				
4	<i>Nora F. Byard</i> , Principal,	248 Summer st.	\$675	1884
3	Grace A. Bosworth,	50 Brastow ave.	600	1894
2	Edith L. Hunnewell,	9 Mason ave.	600	1894
1	Mary Winslow,	38 Spring st.	600	1893
JACKSON.				
4	<i>Annie E. McCarty</i> , Principal,	50 Stone ave.	\$675	1880
2	Isadore E. Taylor,	36 Flint st.	600	1883
1	Annie L. Savage,	135 Antrim st., Cambridge.	600	1873
K'g'n	Caroline G. Baker,	46 Washington st., Charlestown.	600	1895
Ass't	Mattie I. Dayfoot,	196 Medford st.	425	1895
OREN S. KNAPP.				
9	<i>John S. Emerson</i> , Master,	95 Summer st.	\$1,900	1894
9	Abby C. Hunt,	14 Aldersey st.	675	1873
8	Emma Frye,	6 Hillside park.	600	1891
7	C. B. Parkhurst,	22 Highland ave.	600	1889
6	Clara B. Sackett,	31 Warren ave.	600	1891
5	Cora F. Taylor,	28 Tudor st., Chelsea.	600	1896
4	Annie E. Robinson,	20 Webster ave.	600	1876
3:4	Nellie F. Sheridan,	84 Prospect st.	600	1888
3	Abbie A. Gurney,	22 Bonner ave.	600	1888
2	Minnie Alice Perry,	16 Pleasant ave.	600	1893
2	L. Gertrude Allen,	230 Washington st.	600	1884
1	Lucia Alger,	22 Bonner ave.	600	1889
1	Florence W. Gooding,	24 Pleasant ave.	600	1896
1	Erminnie A. French,	356 Moody st., Waltham.	600	1898
PROSPECT HILL.				
5	<i>Helen Tincker</i> , Principal,	63 Columbus ave.	\$725	1872
3	Frances A. Wilder,	36 Walnut st.	600	1874
2	Mrs. M. B. McKusick,	50 Highland ave.	600	1897
1	Kate L. Wheeler,	39 Chester st.	600	1897
1	Sarah I. Beard,	454 Medford st.	600	1895
K'g'n	Blanche Seabury,	136 Huntington ave., Boston.	600	1892
Ass't	A. Gertrude Edgerly,	220 Medford st.	350	1897

TABLE 31.—TEACHERS IN SERVICE DECEMBER, 1898.— *Continued.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
HARVARD.				
1	Grace B. Tibbetts,	4 Tenny st., No. Cambridge.	\$600	1890
JACOB T. GLINES.				
9	<i>Mary E. Northup</i> , Master,	181 Central st.	\$1,900	1878
9	Mary E. Stiles,	181 Central st.	675	1883
8	M. Eva Warren,	29 Evergreen ave.	600	1898
7	Nellie E. Briggs,	432 Medford st.	600	1898
6	Ellen A. Boynton,	15 Evergreen ave.	600	1891
5	M. Frances Guptill,	75 Franklin st., Melrose Highlands	600	1869
4: 5	Margaret A. Orr,	148 Warren ave., Boston. *	600	1891
4	Mary A. Goddard,	9 Winter Hill Circle.	600	1893
3	Anna G. Welch,	324 Main st., Stoneham.	600	1897
3	Florence E. Baxter,	49 Hudson st.	600	1891
2	Flora B. Rice,	15 Evergreen ave.	600	1895
2	Mrs. Laura M. Lamont,	90 Marshall st.	600	1895
1	Belle J. Tift,	7 Lee st.	600	1892
1	Gertrude F. Brown,	374 Medford st.	600	1897
K'g'n	Mrs. Etta D. Ellsworth,	110 Newbury st., Boston.	600	1897
Ass't	Emma E. Norcross,	60 Marshall st.	425	1899
MORSE.				
9	<i>Mina J. Wendell</i> , Master,	211-A Summer st.	\$1,900	1882
9	Emily J. Gifford,	48 Quincy st.	600	1895
8	P. S. Downes,	30 Wallace st.	600	1872
7	Alice E. Jones,	70 Central st.	600	1897
7	Mrs. Louise B. Hardy,	210 Summer st.	600	1898
6	Anna E. Sawyer,	26 Bow st.	600	1872
5	Kara M. Johnson,	52 Kirkland pl., Cambridge.	600	
5	Lizzie E. Hill,	100 Porter st.	600	1891
4	Anna C. Damon,	63 Preston st.	600	1879
3	Helen M. Mead,	100 Porter st.	650	1893
2	Ella P. McLeod,	6 Summer st.	600	1888
1	Ardelle Abbott,	71 Craigie st.	600	1897
1	Alice M. Emerson,	146 Highland ave.	600	1891
Ass't	Florence A. Holmes,		275	1897
MARTIN W. CARR.				
9	<i>Charles G. Ham</i> , Master,	Watertown	\$1,900	1898
9	Blanche E. Townsend,	205 Highland ave.	675	1898
8	Anne E. Bragdon,	21 Harvard st.	600	1898
7	Jennie E. Sutherland,		600	1898
6	Harriet A. Hills,	41 Belmont st.	600	1874
6	Marie T. Smith,	8 Day st.	600	1898
5	Marion P. Crawford,	63 Preston st.	600	1897
5	Susie L. Luce,	89 Pearl st.	600	1896
4	Mary A. Haley,	117 Summer st.	600	1867
4	Mabel A. Mann,	88 Chelsea st., Everett.	600	1898
3	Florence B. Howland,	56 Boston st.	600	1897
3	Charlotte M. Jepson,	Watertown.	600	1898
2	Bessie A. Dadmun,	48 Oxford st.	600	1897
1: 2	Elizabeth S. Foster, Critic Teacher,	205 Highland ave.	750	1895
Ass't	Ida M. Record,	45 Greenville st.	200	1898
"	Amy W. Freeman,	49 Marshall st.	200	1898
"	Ethel F. Morang,	10 Fairlee st.	200	1898
"	Clara B. Hegan,	100 School st.	200	1898
"	Nellie F. Bray,	45 Bradley st.	200	1898
"	Almena J. Mansir,	77 Albion st.	200	1898

TABLE 31.—TEACHERS IN SERVICE DECEMBER, 1898.— *Continued.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
CEDAR-STREET.				
3:2	<i>Elizabeth A. Davies</i> , Principal,	37 Meacham st.	\$625	1893
1	Mary E. Lacy,	63 Cherry st.	600	1890
BURNS.				
4	<i>Laura J. Brooks</i> , Principal,	31 Stevens st., Stoneham.	\$700	1883
3	Minnie S. Turner,	153 Lowell st.	600	1885
2	A. L. Brown,	231 Summer st.	600	1885
1	Florence M. Hamlin,	128 Orchard st.	600	1889
LINCOLN.				
4	<i>J. Louise Smith</i> , Principal,	36 Hamilton ave., Lynn.	\$675	1896
3	Charlotte F. Mott,	15 Pinckney st., Boston.	600	1886
2	Grace A. Hutchins,	12 Winter st.	600	1897
1	Eliza H. Lunt,	50 Curtis st.	600	1890
WM. H. HODGKINS.				
9	<i>Arthur L. Doe</i> , Master,	78 Chandler st.	\$1,900	1896
9	Alice M. Winslow,	53 Chester st.	675	1896
8	Edith W. Emerson,	Arlington.	600	1896
7	Alice S. Hall,	Arlington.	600	1896
6	Mrs. Gertrude W. Leighton,	21 Cottage ave.	600	1896
5	Flora A. Burgess,	183 Ash st., Waltham.	600	1894
5	Mrs. N. Agnes White,	53 Chester st.	600	1896
4	Helen A. Wooster,	37 Meacham st.	600	1898
3	Katherine M. Fox,	Franklin st., Stoneham.	600	1896
2	Berthe M. Jones,	54 Paulina st.	600	1894
1	Mrs. Marion I. Noyes,	16 Winter st.	600	1896
1	Maud M. Hartwell,	21 Cottage ave., Somerville.	600	1893
K'g'n	Gertrude Friend,	5 Irving st.	600	1893
Ass't	Etta M. Cushing,	3 Thurston st.	425	1896
SPECIAL TEACHERS.				
MUSIC.				
9.7	S. Henry Hadley, 4 days,	46 Pearl st.	\$1,500	1869
6.1	Charlotte D. Lawton, 5 days,	13 Sanborn ave.	900	1898
DRAWING.				
9.1	Mary L. Patrick,	Newtonville.	\$1,000	1895
SEWING.				
8.5	Mary L. Boyd,	97 Sycamore st.	\$600	1888
8.5	Sarah I. Stanton,	211 Summer st.	600	1895
Ass't	Etta L. Yelland,	5 High st.,	300	1897
PENMANSHIP.				
9.1	William A Whitehouse,	94 Summer st.	\$1,200	1895

TABLE 31.—OFFICERS IN SERVICE DECEMBER, 1898.—*Concluded.*

	NAME.	Residence.	Salary.	Beginning of Service.
	<p style="text-align: center;">SUPERINTENDENT.</p> <p>Gordon A. Southworth,</p>	40 Greenville st.	\$3,000	1893
	<p style="text-align: center;">CLERK.</p> <p>Eleanor L. Hannay,</p>	193 Pearl st.	\$650	1897
	<p style="text-align: center;">TRUANT OFFICERS.</p> <p>Lemuel H. Snow, Jairus Mann,</p>	<p>81 Benton ave. 80 Porter st.</p>	<p>\$1,000 50</p>	<p>1886 1872</p>

TABLE 32.—SCHOOL JANITORS.

SCHOOL.	Name.	Residence.	Salary.
Latin High, S	Joseph Young	51 Oxford st.	\$1,000
English High, S	H. B. Sellon	9 Stickney ave.	1,500
Prescott, S, 12	Frederick A. Mansfield	23 Rossmore	830
Edgerly, S, 12	David G. Marston	20 Everett ave.	830
Davis, F, 4	N. L. Pennock	54 Putnam st.	320
Bell, S, 12	F. S. Dickinson	1 Putnam st.	830
Cummings, F, 4	William T. Higgins	1 Avon st.	315
Knapp, S & F, 13	Bernard F. Sheridan	84 Prospect st.	830
Pope, F, 12	Hiram A. Turner	16 Gibbens st.	830
Prospect Hill, F, 6	Edward T. Peterson	18 Stone ave.	420
Bennett, St., 4	Alfred Shiner	Schoolhouse	165
Jackson, St., 4	Albert Shiner	Schoolhouse	174
Forster, S, 13	James L. Whitaker	146R Sycamore st.	865
Glines, S, 14	Roy C. Burckes	249 School st.	950
Bingham, S, 8	John F. O'Brien	5 Richardson st.	500
Morse, F, 12	Charles Gale	10 Brastow ave.	830
Durell, S, 4	Edward Boyd	4 Aldrich st.	80
Harvard, St., 1	Mrs. Nora Healey	11 Dimick st.	120
Burns, S, 4	Charles Weston	23 Conwell st.	420
Cedar-street, St., 2	Mrs. C. N. Porter	611 Broadway	125
Highland, F, 12	E. P. Cook	241 Elm st.	770
Lincoln, S, 4	E. S. Haradon	29 Claremon st.	480
Hodgkins, S, 12	Andrew B. Colesworthy	35½ Day st.	890
Hanscom, S, 6	Albert Gilman	44 Lake st.	80
Carr, S, 15	James W. Rich	206 Highland ave.	1,080

Buildings heated by steam are marked "S," by furnace "F," by stove "St." The numbers show the number of rooms.

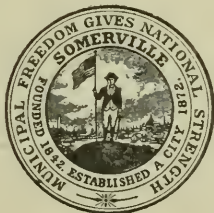
The high schools are heated by a single plant in Latin building.

APPENDIX III.

RULES OF THE SCHOOL COMMITTEE
AND
GENERAL REGULATIONS
OF THE
PUBLIC SCHOOLS
OF THE
CITY OF SOMERVILLE
MASSACHUSETTS

ADOPTED JUNE, 1896

WITH AMENDMENTS TO JANUARY, 1899



RULES

OF THE

BOARD OF SCHOOL COMMITTEE.

CONSTITUTION OF THE BOARD.

By the terms of the Charter of the City of Somerville, the Board of School Committee consists of the Mayor, who is *ex officio* the Chairman of the Board, the President of the Common Council, and three members from each ward of the city.

ORGANIZATION OF THE BOARD.

SECTION 1. The Board of School Committee of the City of Somerville shall organize annually on the second Monday **Time.** of January.

2. The organization shall proceed as follows : **Order.**
1. Reading by Chairman of credentials of new members.
 2. Election by ballot of permanent secretary.
 3. The appointment by the Chairman of a committee of one member from each ward to nominate the Standing Committees of the Board.
 4. Election of the Standing Committees of the Board.
 5. Transaction of other business.

3. The Standing Committees of the School Board shall be as follows, and shall consist of one member from each ward, except as hereinafter provided. **Standing Committees.**

1. On Additional School Accommodations.
2. On Schools in the Several Districts, to consist of the members representing said districts.
3. On Evening Schools.
4. On Finance.
5. On the Latin High School, to consist of five members.
6. On the English High School, to consist of five members.
7. On Industrial Education.
8. On Music.
9. On Private Schools.
10. On Repairs of School Buildings.
11. On Rules and Regulations.
12. On Salaries.
13. On Supplies.
14. On Text-Books and Courses of Study, to consist of two members from each ward.

The Chairman of the Board and the President of the Common Council shall be *ex-officiis* Members of the Standing Committee of the district in which they respectively reside. **Ex-officiis Members.**

The member first named on any Standing or Special Committee shall be Chairman thereof. **Chairman.**

MEETINGS OF THE BOARD.

4. The regular meetings of the Board shall be held at eight o'clock in the afternoon of the last Monday of each month, excepting July. Whenever a regular meeting **Regular Meetings.**

comes upon a holiday, the date of such meeting shall be changed at the regular meeting of the preceding month.

5. Special meetings shall be called by the Secretary by the direction of the Mayor or at the written request of **Special Meetings.** three members of the Board. No business shall be transacted at such meetings except that which shall be specified in the call therefor.

6. Eight members shall constitute a quorum for the transaction of business, but a smaller number may vote **Quorum; eight votes elect.** to call the roll, record the names of absentees, and adjourn to a fixed date. Eight votes shall be necessary for the election of any officer or employee of the Board.

7. All meetings shall be open to the public except when the Board votes to go into executive session. **Open to Public.**

8. At all regular meetings of the Board business shall proceed in the following order:— **Order of Business.**

1. Reading the record of the previous meeting.
2. Action upon bills.
3. Report of the Truant Officer.
4. Reports of Committees.
5. Report of Superintendent.
6. Reading of communications.
7. Nominations and elections.
8. Unfinished business.
9. New business.

9. Any rule or regulation of the Board may be **Suspension of Rules.** temporarily suspended at any meeting by a vote of two thirds of the members present.

10. The rules and regulations may be amended or repealed at any meeting by a vote of the majority of the whole **Amendment of Rules.** Board, provided written notice of such proposed action shall have been given at a previous meeting and the subject

duly considered and reported upon in writing by the Committee on Rules and Regulations.

11. The conduct of the meetings and business of the Board shall be in accordance with the rules of parliamentary practice laid down in "Cushing's Manual." **Questions of Order.**

DUTIES OF OFFICERS AND COMMITTEES.

12. The Mayor of the city, with the title of Chairman of the Board of School Committee, shall, when present, preside at all meetings of the Board; in his absence, the President of the Common Council shall preside. When neither the Mayor nor the President of the Common Council is present, the senior member in point of consecutive service shall preside. **Presiding Officer.**

DUTIES OF SECRETARY.

13. The Secretary shall give to every member of the Board at least forty-eight hours' notice of each meeting. He shall promptly notify each member of a Special Committee of his appointment, and furnish him the names of other members of the committee. He shall furnish the Chairman of each committee whatever orders, documents, or information may be needed for the prosecution of the business of the committee. **Notice of Meetings and Membership of Committees.**

14. He shall attend all meetings of the Board and, when requested, all sub-committee meetings, and record all the votes, orders, and proceedings of the same in a permanent record-book. He shall keep on file in his office all reports, communications, papers, and documents relating to the business of the Board or belonging to it. **Records.**

15. He shall promptly notify teachers and other employees of the Board of their election and of any changes in the management of the schools. **Notice of Election.**

16. He shall examine all bills presented to the Board for approval, and, if found correct, approve the same. He shall make out and attest the pay-rolls for the salaries of all persons employed by the Board and for the contingent expenses of the schools. He shall keep a full and accurate account of all expenditures of the Board, which shall always be open to the inspection of its members. **Approval of Bills. Accounts.**

17. He shall prepare the annual returns and certificates to be transmitted to the Secretary of the Board of Education as required by law. He shall perform such other duties as may be required of him by the Board or any of its committees. **Annual Returns.**

DUTIES OF STANDING COMMITTEES.

18. It shall be the duty of the several Standing Committees to give special attention to the departments to which they are assigned, and to advise with the Superintendent and the Board in relation to the same. Each Standing Committee having charge of any department for the requirements of which the expenditure of money is necessary, shall annually in the month of January submit to the Committee on Finance an estimate in writing of the amount required by said department for the current financial year. **General Duties. Annual Estimates.**

19. The Committee on Additional School Accommodations shall, as frequently as necessary, consider and report upon all demands for new school buildings, and recommend to the School Board suitable sites for the same. **New Buildings.**

20. The several District Committees shall have the immediate direction of the schools in their respective districts. It shall be their duty to give advice to the teachers of their respective schools relative to discipline and other subjects requiring counsel; and in case of any difficulty between teachers and parents or guardians of the pupils, they shall settle the same in such a manner as the merits of the case may seem to require, not denying any parent, guardian, or teacher an appeal to the whole Board. When the office of teacher in any school shall become vacant, they shall, in consultation with the Superintendent and Supervising Principal, fill such vacancy as soon as practicable, subject to the approval of the Board at its next meeting.

**District
Committees.**

**Vacancies,
how filled.**

Standing Committees in the several districts may make such transfers of teachers in their respective districts as in their judgment will secure the best interests of the schools under their care.

**Transfers of
Teachers.**

The Chairmen of the several District Committees shall make all arrangements for the annual graduation exercises of the grammar schools.

**Graduation
Exercises.**

21. The Committee on Evening Schools shall have the general supervision of the evening schools as provided in the General Regulations, and shall appoint teachers for them as they are needed.

**Evening
Schools.**

22. The Committee on Finance shall examine and approve the pay-rolls of all bills approved by the School Committee, and consider and report upon every proposition requiring the expenditure of money, before such proposition is finally acted upon by the Board, except for salaries and ordinary school supplies. Annually, in January, they shall prepare a written estimate of the amount of money required for the support of the public schools during the

**Pay-rolls and
Finance.**

Estimate.

current year, and shall submit the same to the School Board for approval and reference to the City Council.

23. The Committees on High Schools shall perform the same duties and observe the same rules in reference **High Schools.** to these schools as are prescribed for the District Committees in the supervision of the grammar and primary schools. They shall direct the annual graduation exercises of these **Graduation Exercises.** schools, and shall examine and approve the questions prepared by the Superintendent for the examination of applicants for admission to them.

24. The Committee on Industrial Education shall have general supervision of the several branches of Manual **Industrial Training and Art Education,** including Drawing and **Education.** Penmanship. They shall also have charge of the department of Physical Culture.

25. The Committee on Music shall exercise general supervision over this department of instruction in all **Music.** the schools.

26. The Committee on Private Schools shall obtain all needful information concerning the character and **Private efficiency** of private schools, wherein are taught **Schools.** children between the ages of eight and fourteen years, in conformity to the laws of the Commonwealth, and shall report to the Board from time to time the results of their investigations. They shall nominate Truant Officers and Perma- **Nominations.** nent Substitutes for election by the Board.

27. The Committee on Repairs of School Buildings shall visit the several school buildings near the close of each school year for the purpose of ascertaining what repairs and **Repairs.** improvements are needed, and submit a written report and recommendations for the consideration and approval of the Board.

28. The Committee on Rules and Regulations shall consider all proposed changes of the Rules and Regulations, and report in writing at a subsequent meeting of the Board. **Rules and Regulations.**

29. The Committee on Salaries shall consider all propositions for change in the salaries of teachers and officers, and shall report in writing such recommendations concerning the same as they may deem expedient. This committee shall examine the pay-rolls of salaries of all persons in the service of the School Committee, and approve such as are found correct. **Salaries and Pay-rolls.**

30. The Committee on School Supplies shall have the exclusive authority to provide all stationery, blanks, cards, printing, record-books, diplomas, books for the use of teachers and pupils, globes, maps, charts, and all other articles required for the use of the Board, its officers, or the schools. They shall examine all bills to be paid from the school contingent appropriation, and submit to the Board for its approval such as are duly authorized. **Supplies and Bills therefor.**

31. The Committee on Text-Books and Courses of Study shall consider every proposition involving a change in text-books or in courses of study. Reports shall be made in writing at the next regular meeting of the Board, and may be amended by a majority vote of the members present; but no change of text-books shall be made, and no text-book shall be adopted, except by a two-thirds vote of the Board, notice of the intended change having been given at a previous meeting. Annually, the Committee on Text-Books and Courses of Study shall examine the courses of study pursued in the schools, and shall recommend to the Board at the meeting in May such changes in text-books and instruction as they may deem expedient. **Text-Books. Courses of Study.**

Any book of reference, globe, map, or chart may be adopted by a majority vote of the Board after examination and report thereon by the committee on text-books.

DUTIES OF SUPERINTENDENT.

32. The Superintendent of Public Schools shall be elected annually by ballot at the regular meeting in February, or **Election.** whenever a vacancy occurs.

33. The Superintendent shall be the advisory and executive officer of the Board, and under its direction and control shall have the care and supervision of all the public schools. **Supervision of Schools.** He shall direct and supervise the same in conformity with the courses of study and the rules and regulations of the Board, and shall see that all regulations and orders of the Board are carried into effect.

34. He shall visit each school as often as practicable, and carefully examine its condition. He shall advise with **Visitation.** teachers as to the best methods of instruction and discipline, and for this purpose may hold meetings of teachers at such times as he may deem advisable.

35. He shall pay particular attention to the classification of pupils, that there may be as far as practicable a **Classification** uniform course of instruction and system of discipline in the different schools of the same grade. In consultation with the Principal he shall have the direction of the transfers of children from one school to another of the same grade. In **Transfers of Pupils.** making transfers he shall duly consider the numbers in the schools and the residence of children, consulting the appropriate sub-committees in doubtful cases.

36. He shall see that the schools are supplied with all needed text-books, blanks, registers, record-books, **Supplies.**

maps, charts, stationery, diplomas, report cards, and other articles furnished by the Board for their use. He shall see that all statistical reports are properly made by **Reports.** Principals, and receive and record the same. He **Directory.** shall prepare a directory of the schools, containing the names of sub-committees, teachers, schools, etc., at the beginning of each school year.

37. The Superintendent shall attend all meetings of the Board, except when his election is under discussion, **Attendance at** and, when called upon through the Chairman, shall **Meetings.** express his opinion on any topic under consideration.

38. When requested by the Board he shall report upon the condition of the schools, and make such suggestions relating to their efficiency and usefulness as he may **Report of** consider desirable. Annually in the month of **Superintendent** December he shall prepare and present to the **and** **School Board.** Board a detailed report of the condition of the schools, accompanied by suitable statistical tables and suggestions, which may be adopted by the Board as its annual report required by statute.

39. He shall keep a list of applicants for schools, and a record of such facts as may be known to him respecting their character, experience and qualifications, and **Applicants** shall recommend to the proper committees teachers for **for Schools.** nomination. He shall fill all vacancies occasioned by the temporary absence of teachers not otherwise provided for, **Vacancies.** and make other temporary arrangements relative to the schools which he may consider needful, and report the same to the proper committees.

40. He shall from time to time inspect the grounds, buildings, furniture and apparatus belonging to the **Inspection of** schools, and report to the Board any defects in the **Buildings.**

same which may impair the health of pupils and teachers, or interfere with the efficiency of the schools.

41. He shall at his discretion in very stormy weather, strike the signal on the fire-alarm bells for the **Storm Signal.** omission of the next session of the schools.

42. He shall issue certificates of the age and school attendance of children under sixteen years of age **Employment** who desire employment in manufacturing or mer- **Certificates.** cantile establishments and shall co-operate with the proper authorities in securing the observance of the law concerning the employment of children.

43. The Superintendent shall devote his entire time to the service of the City. He shall have his office at a suitable place approved by the Board, and shall establish suitable **Office Hours.** office hours. He shall be in attendance therein at least one hour of each secular day during the school year. He **Clerk.** shall employ such clerical assistance as may be necessary, subject to the approval of the Board.

44. All votes and directions of the Board affecting pupils, parents, or teachers shall be communicated through the Superintendent. In all matters where his duties are not **Notices of** definitely prescribed he shall exercise his discretion, **Votes of Board.** subject to the approval of the Board. He shall, when requested, render any advice or aid to any Standing Committee and perform such other duties as the Board may from time to time direct.

DUTIES OF TRUANT OFFICERS.

45. The Board shall elect annually, at the meeting in April, two truant officers. One of the officers shall **Election.** devote his whole time during the school year to the duties of his office, under the direction of the Superintendent.

46. The Truant Officer shall enforce all ordinances of the City and statutes of the Commonwealth in relation to truant children, absentees from school, and such children as persistently violate the reasonable rules and regulations of the common schools. **To enforce Ordinances.**

47. Upon request of a teacher, duly made upon truant cards provided for the purpose and countersigned by the Principal, the acting Truant Officer shall investigate the absence of any child thought to be a truant, take such action as he may think proper, and report the facts to the Principal. He shall not be employed to investigate the absence of pupils who are not suspected of truancy. **Investigation of Truancy.**

48. Under the direction of the Chairman of the respective District Committees, one of the truant officers shall make complaint before the court having jurisdiction thereof against every person who violates the laws of the Commonwealth relating to the attendance of children in the schools, and also against all habitual truants and children between seven and sixteen years of age who may be found wandering about the streets or public places of the city, having no lawful occupation or business, not attending school and growing up in ignorance, and such children as persistently violate the reasonable rules and regulations of the public schools. **Prosecution of Truants, etc.**

49. The acting Truant Officer shall visit and inspect all factories, workshops, and mercantile establishments within the limits of the city at least once in every three months, beginning in September, to ascertain whether there is any violation of the statutes relating to the employment of children therein. He shall report any cases of such illegal employment to the School Committee and to the Chief of District Police or the Inspector of Factories for the district. **Inspection of Factories, etc.**

50. Annually in the month of September the school census shall be taken as provided by the Public Statutes. **Annual Census.**

51. He shall make a written report of his doings each month to the School Board, exercise a general care and oversight of school premises, especially when schools are not in session, render such service in connection with the evening schools as may be required by the Committee on Evening Schools, and perform such other duties as the Board may from time to time direct. **Reports. Oversight of School Premises.**

ELECTION AND SALARIES OF TEACHERS.

52. Teachers of High, Grammar, and Primary Schools, and supervisors of departments, and other employees of the Board shall be nominated by the Standing Committee having charge of the same. **Nominations.**

53. Teachers, Supervisors, and Truant Officers shall be elected annually by ballot at the regular meeting in April, eight votes being necessary to a choice. Any vacancy occurring during the year may be filled at any meeting of the Board. The Secretary shall forthwith give written notice to each person elected, who shall be requested to notify the Secretary of his acceptance within ten days from the date of the notice. Such election and acceptance shall be subject to the provision of the public statutes that the Board may dismiss from employment any teacher whenever it may think proper. **Time of Election. Notice of Election. Dismissal of Teachers.**

54. Unless otherwise specified, all elections shall be for the school year or remainder of the school year following the election. Teachers intending to resign are required to give the Secretary written notice four weeks (exclusive of vacations) before the resignation takes effect. **Resignations.**

All salaries shall be established at the time of election. The Superintendent, Secretary, Truant Officers, and Superintendent's Clerk shall be paid one twelfth of their annual salaries each month. The salaries of Teachers shall be payable monthly for each week of actual service.

Regular teachers who are absent from school on account of personal illness, or who are absent not more than three days on account of the death of either of the following members of their immediate family, to wit:—a parent, child, brother, sister, husband, or wife,—shall suffer no loss of pay, provided such absence does not aggregate more than five days in any school month or fifteen days in a school year. Absence in excess of the above periods, or from any other cause, shall be without pay.

55. There shall be elected annually at the April meeting, not exceeding three teachers to serve as regular substitutes whenever and wherever they may be needed. These teachers shall be under the direction of the Superintendent in consultation with the several District Committees.

56. The salaries paid to Teachers and other employees of the Board shall be in accordance with the following schedule:—

High Schools.—Teachers in the high schools are designated as head masters, masters, sub-masters, junior sub-masters, and first, second, and third assistants.

Title.	Minimum.	Maximum.	Annual Increase.
Head Master . . .	\$2,300	\$2,500	\$50
Master	1,800	2,000	50
Sub-Master	1,200	1,700	50
Junior Sub-Master	1,000	1,300	50
First Assistant	1,000	1,200	50
Second Assistant	900	1,000	50
Third Assistant	750	900	50

Grammar and Primary Schools.—Teachers in grammar and primary schools are designated as masters, principals, first, second, and third assistants.

Title.	Minimum.	Maximum.	Annual Increase.
Masters . . .	\$1,800	\$1,900	\$ 50
First Assistants . . .	675	675	
Second Assistants . . .	300	600	100
Third Assistants . . .	200	425	75
Kindergartners . . .	300	600	100

Principals of 8-room buildings, \$1,000.

Principals of smaller buildings, \$600, with \$25 additional for each room supervised.

Principals of 4-room buildings with 6th or 7th grade, \$700.

Special Instructors.—Music. In the high schools and upper grammar grades, \$1,500 for four days' work per week, together with all instrumental and sheet music required for the graduation exercises of the grammar and high schools.

In the lower grammar and primary grades, \$900.

Supervisor of Drawing, \$900 minimum; \$1,000 maximum; \$100 annual increase.

Teachers of Sewing, \$600.

Substitutes.—Permanent substitutes, \$600.

Temporary substitutes of 1 or 2 years' experience, \$1.50 per day.

Temporary substitutes of 3 or 4 years' experience, \$2.00 per day.

Temporary substitutes of 5 or more years' experience, \$2.50 per day.

Temporary substitutes in high schools or 9th grade, \$3.00 per day.

Officers.—Superintendent, minimum, \$2,500; maximum, \$3,000; annual increase, \$100.

Superintendent's Clerk	\$ 650
First Truant Officer	1,000
Second Truant Officer	50

The increase of salaries shall commence at the monthly period of payment next succeeding the end of each year of service.

57. District Committees may at their discretion appoint third assistants in primary or grammar schools having a membership of more than fifty-six pupils or in kindergartens with a membership exceeding thirty. If such assistants are without experience or special training they shall receive no pay for their first year of service. For their second year of service they shall receive \$200, with an annual increase of \$75 thereafter until a maximum of \$425 shall be reached. But if said assistants are normal or training-school graduates, they shall receive for their first year of service \$275, with an annual increase of \$75 until a maximum of \$425 is reached.

A service of at least thirty weeks shall be required to constitute a year's work.

Salaried third assistants shall receive no increase of pay for substituting.

In determining the pay of third assistants or of substitutes, a single year at a normal school shall be considered equivalent to a year of teaching experience.

In determining the pay of a substitute or of a regular teacher, graduation at a normal school shall be considered equivalent to a year of teaching experience.

When a third assistant is elected to the position of second assistant, she shall receive the salary in the schedule for second assistants which is next larger than that which she last received as third assistant.

58. The Committee on Evening Schools is empowered to appoint teachers for these schools and to fix their salaries, subject to revisory action by the Board and the Regulations provided for these schools. **Evening School Teachers.**

59. No person not now in the service of the Board shall be eligible to election to any position connected with the schools who has not had professional training or suitable experience in the line of work which he is to teach or supervise. **Training or Experience Required.**

SPECIAL INSTRUCTORS.

60. At the regular meeting in April there shall be elected special instructors in music, drawing, sewing, and such other special branches as the Board may hereafter determine, who shall hold office for one year unless sooner discharged by the Board. **Election.**

61. They shall be subject to all the regulations of the Board relating to regular teachers, unless it is otherwise provided. **Subject to Rules.**

62. Instruction in music shall be given in all the schools, and no pupil shall be excused from this study except by permission of the Chairman of the Committee on Music, or the Superintendent. **Musical Instruction.**

In all the grades below the high schools, instruction in this study shall be given by the regular teacher under the direction of the special instructor. In the high schools the musical instruction shall be given entirely by the special teacher.

63. Instruction in drawing shall be given in all grades of the grammar and primary schools, and in the English High School. It shall be an optional study only in the three upper classes of the high school. **Drawing.**

In all grades below the high school, instruction in drawing shall be given by the regular teacher, under the **By Whom Taught.** direction of the supervisor of drawing. In the English High School, drawing shall be taught by special instructors, appointed for the purpose.

64. Instruction in sewing shall be given in the fifth, sixth, seventh, and eighth grades of the schools, by special **Sewing.** teachers appointed for the purpose.

65. Instruction in cooking, woodworking, and physical training may be given by special teachers, in such **Cooking, etc.** schools and in such grades as may be designated by the Board.

66. Instruction in any of the special branches may be extended or restricted in the schools at any time, **Special Instruction.** by a majority vote of the Board, on recommendation of the special committee in charge.

DUTIES OF PRINCIPALS.

67. Principals are responsible for the enforcement of the regulations of the Board and for the general discipline of the schools in their respective buildings, and are **Responsibility and Authority.** invested with authority to make such rules, not inconsistent with these regulations, and require such co-operation of the other teachers as may in their opinion be needful for the successful conduct of their schools. They shall themselves be subject to all regulations of the Board relating to teachers.

68. They shall exercise a vigilant supervision over their respective buildings and grounds and see that they **Supervision of Buildings and Janitors.** are kept in a neat and wholesome condition. Any continued neglect of duty on the part of janitors they are to report to the Superintendent of Janitors. Defects in the heating or sanitary arrangements of the building and

needful repairs are to be reported to the Superintendent of Schools.

69. They shall receive all applications for admission to their schools, assign each pupil to his proper class, and use their best efforts to secure regularity of attendance and to prevent truancy. **Admission and Assignment of Pupils.**

70. They shall order from the Superintendent, on blanks provided for the purpose, whatever text-books and supplies may be needed in their schools, take charge of the same when received, and see that they are properly cared for and economically used by the teachers. **Supplies Ordered.**

71. They shall carefully record the absences of their teachers and the times during which substitutes are employed, and send a report of the same to the Superintendent at the end of each school month. **Time Reports.**

72. Principals are responsible for the correctness of teachers' registers and shall examine them each month. They shall make such returns and reports as may be requested from time to time by the Board. **Registers.**

73. They shall see that all teachers in their buildings are provided with a copy of these regulations, and are immediately informed of any changes in them and of any directions for the management of their schools issued by the Board or the Superintendent. They shall see that all rules and directions are uniformly interpreted. **Changes in Rules.**

74. They shall give such instructions to teachers and pupils as will enable them to act prudently and promptly in case of fire or other emergency, and shall train the pupils to leave the building in order, and speedily, on the striking of the emergency alarm. They shall see that the doors by which the pupils leave the building are unlocked during school hours unless provided with means by which they may be easily opened in emergencies. **Emergency Alarm.**

75. Principals shall patiently hear and impartially investigate complaints which may be made by parents or others, and shall use their best endeavors to redress any real grievances without reference to the Committee or Superintendent. **Complaints to be heard.**

76. Principals of schools containing the ninth grade shall be known as Supervising Principals. They shall perform all the duties of principals as set forth elsewhere in these regulations. In addition to these duties they shall, at the request of the Superintendent, instruct classes, examine and grade pupils, and supervise the instruction of teachers in their own schools and in all other schools which are tributary to them. They shall counsel and aid teachers in all matters relating to their duties. They shall familiarize themselves with the methods of discipline employed by every teacher under their direction, and labor to secure the best methods. **Supervising Principals.**

Whenever a school is tributary to two or more higher schools, it shall be under the charge of the senior Supervising Principal unless otherwise ordered by the District Committee.

Supervising principals shall teach at least twelve hours per week, not less than ten of which shall be in the highest grade.

DUTIES OF TEACHERS.

77. All teachers connected with the public schools are required to make themselves familiar with the provisions of these regulations and especially that portion of them relating to their school duties, and to observe and enforce them faithfully. **To observe Regulations.**

78. Teachers shall not be absent from duty except for personal illness or emergency, unless permission has first been obtained from the Chairman of the Standing Committee in

charge of the school or department, or from the Superintendent. In all cases of absence notice shall be **Absence.** immediately sent to the Principal and to the Superintendent, one of whom shall supply a substitute, and both of whom should be notified of the time when the teacher may be expected to resume her duties.

79. Principals shall be in their respective buildings twenty minutes before the time of opening school. They **Punctuality.** shall see that the outside doors are open for the admission of pupils fifteen minutes before the opening of each session.

In cold and inclement weather they shall provide suitable shelter and care for little children who may have come to school earlier.

Every teacher shall be in her school-room ready to receive her pupils fifteen minutes before the beginning of each session. The tardiness of teachers shall be regularly reported to the Superintendent.

80. Teachers shall punctually observe the hours appointed for opening and dismissing the schools, and during school hours shall faithfully apply themselves to their **Moral** duties. In all their intercourse with their scholars **Instruction.** they shall strive to impress on their minds, both by precept and example, the great importance of earnest efforts for improvement in morals, manners, and deportment, as well as in useful learning.

Pupils shall be carefully instructed to avoid idleness and profanity, falsehood and deceit, and every wicked and disgraceful practice, and to conduct themselves in an orderly and proper manner; and it shall be the duty of the teachers, so far as practicable, to exercise a general supervision over them in these regards, both in and out of school.

81. Teachers must aim at such discipline in their schools as would be exercised by a kind and judicious parent in his family. They shall avoid corporal punishment in all **Discipline.** cases where good order can be maintained by milder means. In no case shall they resort to confinement in closets or dressing-rooms, or to any form of cruel or unnatural punishment. Blows upon the head are expressly prohibited. Ridicule, provoking sarcasm, and all harsh expressions are to be studiously avoided. If the Principal recommends the use of corporal punishment, let it be restricted to blows upon the hand, but administered with prudence and deliberation, always after school hours, in the absence of other pupils, and after twenty-four hours shall have intervened.

Teachers must record in a book, furnished for that purpose, all cases of corporal punishment, giving the date, the name of the pupil, the offence, and the nature and extent of **Corporal Punishment.** the punishment inflicted, and report the same to the Superintendent through the Principal.

By corporal punishment is understood any infliction whatever of bodily pain, or application of physical force.

82. Teachers shall be responsible for the discipline of their schools. Appeals to the Principal or Committee, in ordinary cases, tend to weaken the influence of the **Appeals.** teacher, and should be avoided.

Whenever a pupil refuses to receive punishment from his teacher, his case shall be referred to the Principal for treatment.

83. In cases where the conduct and habits of a pupil are found to be injurious to associates, it shall be the **Suspension of Pupils.** duty of the Principal, with the advice of the Standing Committee, to suspend such pupil from school.

84. For flagrant misconduct or extreme disobedience and insubordination, after other means of reformation have been

tried in vain, the Principal of the school may suspend **Suspension** a pupil, provided that such case of suspension, with the **of Pupils.** reasons therefor, shall be reported in writing to the parent or guardian of the pupil, and also to the Sub-Committee, within twenty-four hours after its occurrence. Any child under suspension, who shall express regret for his fault, and whose parents or guardian shall promise co-operation in the enforcement of the regulations, may be reinstated by the **Reinstatement.** Sub-Committee on such conditions as shall be thought best; but, if such suspension is ratified by the Sub-Committee, the pupil so dismissed shall not be admitted into any school in Somerville except by vote of the Board.

85. No pupil shall be sent from school for pur- **Pupils sent** poses of discipline, unless he is suspended by the **from School.** Principal.

86. Teachers are expected to use all suitable means to prevent truancy and to reclaim truants. When such **Truancy.** means prove inadequate, the Principal shall report offenders to the truant officer, who shall return them to school and give suitable warning of the consequences of their offence.

87. Bi-monthly reports of the standing of pupils of the high and grammar schools, showing attendance, **Bi-monthly** deportment, and scholarship, shall be sent to parents **Reports.** and guardians for their examination and signature.

88. There shall be kept in every school a register of the name, age, dates of admission and discharge, absences, **Registers.** tardinesses, dismissals, and half days of truancy of each pupil. Principals shall be responsible for the correctness of said register, and for the proper returns from it to the Secretary of the School Committee.

89. Teachers whose pupils are all of one grade, shall divide their classes into two sections, that as far as practicable one section may be studying while the other section are reciting. **Classes in Sections.**

A reasonable amount of home study may be required of pupils in the high schools and the three upper grades of the grammar schools. **Home Study.**

90. During the first month of the school year each teacher shall prepare two copies of the programme of the daily exercises of his school, one to be kept in the school-room accessible to the substitute teacher, and one for the Superintendent. **Programmes.**

91. It shall be the duty of all teachers to give frequent and vigilant attention to the ventilation, temperature, and light of their school-rooms. A regular system of ventilation shall be practised, as well in winter as in summer, by which the air in the school-rooms shall be effectually changed during recess and at the end of each school session. The school-room should be kept at a uniform temperature of 68 degrees F., as shown by a thermometer hung in a central place at the level of the pupils' desks. **Ventilation. Temperature.**

92. Teachers, by direction of the Superintendent, shall visit other schools occasionally, to observe the discipline and instruction of the same. During the absence of teachers for this purpose the Superintendent shall provide substitutes for their schools. **Visits of Teachers.**

93. It shall be the duty of teachers to encourage their pupils to adopt some systematic course of general reading, to advise them in the selection of such books as will improve their taste and cultivate a love for good reading, and to co-operate in efforts to extend the advantages of the Public Library to the pupils of the schools. **Reading and Public Library.**

94. Teachers shall not allow themselves to be interrupted in their work by prolonged interviews, even on matters relating to the school; nor shall they allow the suspension of their regular duties or changes in their programmes on account of the visits of other teachers or personal friends.

95. Unless specially excused by the Superintendent, teachers shall attend all meetings called by the Superintendent or the Board for their benefit and professional improvement by means of lectures, discussions, or otherwise.

96. The course of study and the time schedule of different studies adopted by the Board and made a part of these Regulations must be faithfully followed in accordance with the directions therein given, and no other text-books than those authorized by the Board shall be used in the schools.

97. No persons except those appointed for the purpose by the Board or those officially connected with the schools shall be allowed to give instruction or deliver lectures in the schools.

No advertisement shall be given in any school or distributed or posted on school premises, nor shall any agent or other person be permitted to enter any school building for the purpose of securing subscriptions, presenting articles for sale, photographing pupils, copying names from school registers, or transacting any other private business without permission of the Board, presented in writing.

The sale of books or stationery to pupils by teachers is prohibited.

No person shall be permitted to use tobacco, in any form, upon school premises.

Use of Tobacco.

98. No contribution or collection of money for any purpose shall be permitted in any school without consent of the Chairman of the Standing Committee in charge thereof. **Contributions Prohibited.**

99. Teachers are expected to co-operate heartily with the Superintendent, Principal, and with one another in promoting the interests of the schools. During the school year they shall engage in no business or employment for salary or wages except that for which they are hired and paid by the City of Somerville, without the consent of the Standing Committee in charge of the school or department. **Co-operation of Teachers.** Women regularly employed in the day schools are not eligible to appointment as evening school teachers. **Not to Engage in Other Business.**

GENERAL REGULATIONS
OF THE
PUBLIC SCHOOLS.

REGULATIONS COMMON TO ALL SCHOOLS.

100. The public schools of Somerville shall be classified as Kindergartens, for children under five years of age ; Primary schools containing the first, second, and third grades ; Grammar schools containing grades four to nine, inclusive ; the English and Latin High schools, containing four grades to be designated as the first, second, third, and fourth classes, the first being the tenth grade or entering class ; Elementary Evening schools for persons over fourteen years of age ; and Evening Drawing schools for instruction in industrial and freehand drawing. **Classification of Schools.**

101. The school year shall consist of forty weeks, beginning on the Tuesday following the first Monday in September. **School Year.**

102. The following shall be the holidays and vacations granted to all the schools :—

Holidays.—Every Saturday ; Thanksgiving Day together with the afternoon preceding and the Friday following it ; February 22nd ; Patriots' Day ; Memorial Day ; June 17th. **Holidays.** Whenever any holiday falls on Sunday, the schools shall be closed on the following day.

Vacations. From noon of December 24th. to the day after that celebrated as New Year's Day; the two weeks that **Vacations.** separate the last twenty-four weeks of the school year into three terms of eight weeks each; from the close of the school year to the Tuesday following the first Monday of September.

The chairman of the School Committee, through the Sub-committees, may dismiss all the schools on extraordinary occasions of general interest; and each school may be dismissed **Special** by its Sub-committee during the session of the Middlesex **Holidays.** County Teachers' Association, upon the request of the teacher or teachers who will attend the same; and Sub-committees are not allowed to dismiss their schools on any other occasions, except by vote of the Board.

103. The high schools shall hold a five-hour session on each school day, beginning at 8.30 o'clock.

The grammar and primary schools shall hold a morning session from 9 o'clock until 11.45, and an afternoon session from 2 o'clock until 4, excepting from November to February, **Sessions.** when the afternoon session shall be from 1.45 to 3.45 o'clock.

The sessions of the kindergartens shall extend from 9 o'clock until 12.

104. In case of severe storm the Superintendent is authorized to announce the omission of the next session of the schools by striking the signal 5-5 twice on the fire-alarm **Storm Signal.** bells. The storm signal for the high schools shall be struck at 7.30; for all other schools forty-five minutes before the opening of the session. From November to February the time for striking the signal for the omission of the afternoon session shall be 12.45.

105. The morning session of all schools shall commence with the reading by the teacher, without comment, of **Scriptures** a selection from the Scriptures in accordance with **to be read.** the laws of the Commonwealth.

106. There shall be twenty-five minutes of recess in the schools at such time as the head-masters shall choose.

In the grammar and primary grades, midway of each session, there shall be a recess of five minutes for the four **Recesses.** lower grades, and five minutes of gymnastic exercises for all other grades.

No pupil shall be deprived of any portion of the regular recess of his class.

107. Pupils shall be admitted to school and assigned to their proper grades by the Principal, who shall require **Admission of Pupils.** satisfactory evidence that they reside within the district, are of the proper age, and have been secured against the small-pox.

Beginners shall be admitted to the first grade during the month of September only, it being understood that any child five years of age, or who shall attain that age before the first of January following, is eligible to such admission.

108. Residents of other cities and towns, and children residing in Somerville for the sole purpose of attending school shall be admitted to school only by **Non-Resident Pupils.** special permit of the Superintendent, who shall require evidence that tuition has been paid for the year or half-year before granting said permit.

The tuition for non-resident pupils shall be a sum equal to the average expense per pupil during the year next preceding in the school they are to attend.

109. No person affected with any contagious disease shall be allowed to attend the public schools. No person who is a member of a household in which a person is sick with small-pox, diphtheria, scarlet fever, or measles, or of a household exposed to contagion from a household as aforesaid, shall attend any public school during such sickness or until the teacher of

the school has been furnished with a certificate from the board of health of the town or city, or from the attending physician of such sick person, stating in a case of small-pox, diphtheria, or scarlet fever, that a period of at least two weeks, and in a case of measles a period of at least three days, has elapsed since the recovery, removal, or death of such person, and that danger of the conveying of such disease by such person has passed.

**Contagious
Diseases.**

110. Pupils shall attend school only in the district in which they reside except by permission of the Superintendent. A pupil who changes his residence during the latter half of the school year may, if his parents so elect, complete the year in the school that he has been attending.

**Transfer of
Pupils.**

111. When a pupil changes his residence with the intention of entering another school, he shall receive a discharge card showing his age, grade, and the number of weeks of attendance during the school year. This card shall admit him to the same grade in any school in this city which he may enter.

**Discharge
Cards.**

112. Every pupil must come to school cleanly in person and dress, and with his clothes properly repaired. In case of neglect in this respect, the teacher may send the negligent pupil home, to be suitably prepared for school.

Cleanliness.

113. Pupils shall be prompt and regular in their attendance. In case of absence, tardiness, or dismissal, a written or personal explanation from the parent or guardian shall be required. Tardiness, without a written or personal explanation from the parent or guardian, is accounted a misdemeanor. A pupil who is tardy without a satisfactory explanation shall not be sent home, but shall be required to furnish it subsequently.

**Attendance
of Pupils.**

If any pupil of the high school is absent two days in four consecutive weeks, or any pupil in the grammar schools **Suspension** is absent six half-days in four consecutive weeks, **for Absence.** except for causes satisfactory to the Principal, he shall not return without a written permit from the Standing Committee of his school, or the Superintendent.

No pupil belonging to a public school shall be absent from school or excused from any school exercise in **Absence for** order to receive regular instruction elsewhere. **Special Instruction.**

114. In recording the attendance of pupils, teachers shall observe the following rules :—

1. Every pupil who enters the room after **Marking** the time for beginning the session, shall be **Attendance.** marked tardy.

2. Every pupil who leaves school at the request of his parents or guardian before the close of a session, shall be marked dismissed.

3. Every pupil not present at least one half of the session, shall be marked absent.

4. Whenever a pupil is suspended from school, his name is to be taken at once from the roll of membership.

5. Whenever a pupil leaves school without the intention of returning during the school year, he shall be disenrolled, but any absences recorded against him before the fact of his leaving comes to the knowledge of his teacher, shall remain.

6. After a pupil has been absent ten consecutive days for any cause his name shall be taken from the roll, but the absences recorded against him shall stand.

115. No pupil shall be detained for any purpose after the close of the morning session. Detention at other **Detention** times shall in no case exceed thirty minutes and **of Pupils.** shall be for *wilful neglect of duty only.*

116. Any pupil who shall deface or injure any school property shall be required to pay in full for all damages. **Injury to Property.**

117. Pupils shall not be permitted to answer calls at the door except from parents and guardians or their accredited messengers. **Calls at Door.**

KINDERGARTENS.

118. District Committees are authorized to open kindergartens whenever they deem it wise, provided that not more than one kindergarten shall be opened for each eight hundred pupils in the primary and grammar schools in the district. **Authority to Open.**

119. Children between three and a half and five years of age may be admitted to the kindergarten nearest their homes during the months of September and April. They may remain until the June following their fifth birthday. **Age of Admission.**

120. A kindergarten shall contain not less than twenty nor more than fifty pupils. An assistant may be employed when the number exceeds thirty. **Number of Pupils.**

121. The sessions of the kindergarten shall be from 9 to 12 o'clock. Teachers shall employ their afternoons from 2 to 4, except when the time is needed for preparation for their work, in visiting the homes of their pupils to confer with parents in promoting the interests of the children and securing regularity of attendance. **Sessions.**

PROMOTIONS AND GRADUATION.

122. Regular class promotions in the schools shall be made at the end of the school year according to the judgment of the class teacher, the Principal, the Superintendent, and the District Committee. **Regular Promotions.**

123. Individual promotions shall be made whenever in the judgment of Principal, Superintendent, and Chairman of the District Committee the interests of pupils require them. It is especially enjoined upon principals to make such arrangement of classes and apportionment of work as will give constant employment to pupils of varying degrees of ability, and to advance the whole or any portion of a class as rapidly as possible, irrespective of the grade limitations of the courses of study.

124. In the high and grammar schools the basis of promotion shall be the teacher's estimate of the oral and written recitations and effort of the pupil, which shall be recorded and reported to parents at least bi-monthly.

Written test examinations, not exceeding one hour each, may be given at any time without previous announcement by the Teachers, Principal, or Superintendent, not as an exclusive basis of promotion, but as aiding teachers to correct estimates, showing results, or indicating lines of instruction.

125. Teachers' estimates shall be indicated by one of the following terms: —

Excellent	E, A, or 5	Unsatisfactory	U, D, or 2
Good	G, B, or 4	Poor	P, E, or 1
Fair	F, C, or 3		

As far as possible the standard and terms used in marking shall be uniform in each school.

126. All pupils whose scholarship record as shown by teachers' estimates averages "fair" shall be unconditionally promoted to the next grade, provided their conduct and effort through the year have been satisfactory.

Pupils who fall below the standard of promotion may be conditionally promoted to the next grade on trial for three months, provided their age, character, capacity, and best interests seem to justify it.

Parents of pupils promoted conditionally shall receive notice of the fact, and shall receive monthly statements from the teacher showing the progress of their children.

127. The standard and method of promotion from the grammar schools to the high schools shall be the same as from grade to grade in these schools. **Admission to High Schools.**

Grammar school pupils promoted to a high school grade shall receive certificates of qualification signed by the Principal, which shall secure their admission to either high school.

128. At the beginning of the school year there shall be an examination of applicants for admission to the high schools under the direction of the committee on High Schools. A fair knowledge of the studies of the grammar schools shall be required for admission. The questions shall be prepared by the Superintendent and approved by the Chairmen of the High School Committees. **Examination for High Schools.**

129. Pupils who have fallen behind their grade by absence, indolence, or inability, may be transferred to a lower grade, provided that no such transfer shall be made unless parents have received at least four weeks' previous notice, and the Principal, the Superintendent, and the Chairman of the Committee in charge of the school concur therein. **Transfer to Lower Grade.**

130. Pupils in the grammar and high schools who have honorably completed the prescribed course of study to the satisfaction of the Principal, the Superintendent, and the Standing Committee in charge of the school, shall receive diplomas of graduation. **Diplomas.**

131. The graduation exercises of the grammar schools shall be under the direction of a Special Committee composed of the Chairmen of the several District Committees. **Graduation Exercises.**

The graduation exercises of the high schools shall be under the direction of the Standing Committees of those schools.

132. While it is understood that the schools are always open to the inspection of parents and citizens, the third week in May of each year is especially set apart as Public Visitation Week for the grammar and primary schools. **Public Visitation.** The third Wednesday in May is assigned as Public Day for the high schools.

No departure from the regular work of the schools shall be made on public days.

133. Exhibitions of the regular work of any school or department may be made at the option of the Standing Exhibitions Committee in charge of the same.

REGULATIONS FOR EVENING SCHOOLS.

134. Evening schools for adults of both sexes, and for children over fourteen years of age who are unable to attend the day schools, together with a School for Industrial Drawing, may be established by the Committee on Evening Schools, subject to the following rules:—

135. The Committee on Evening Schools shall have the general charge and supervision of all evening schools, **Committee in Charge.** and each school shall be under the special charge of one member of that committee.

136. No school shall be open until thirty persons have pledged themselves to attend regularly. When the **Numbers.** average number attending any school for one week is less than fifteen, the school shall be closed.

137. Applications for admission to the evening **Applications for Admission.** school for persons under eighteen years of age must be made by parent or guardian.

No person shall attend the School of Industrial Drawing who is under fourteen years of age.

138. Each school shall have a principal and one assistant for thirty pupils, and an additional teacher may be **Teachers.** appointed for every fifteen pupils in excess of that number.

139. The Principal shall be responsible for the management of the school. He shall keep a record of **Duties of** the name, age, residence, and occupation of each **Principal.** pupil, and an accurate record of attendance. He shall have charge of, and be responsible for, all books and supplies furnished for his school.

140. The term of the evening schools shall begin on the first Monday of October and continue until Christmas. **Terms.** The term of any school may be prolonged by the committee in charge if circumstances shall warrant it. The sessions of the Evening Drawing School shall be held on Tuesday and Thursday evenings; of the other schools, on each week-day evening except Wednesday and Saturday.

141. The sessions of the school shall begin at half-past seven o'clock and close at half-past nine o'clock. The **Sessions.** rooms shall be open and the teachers present fifteen minutes before the time for the sessions to begin.

142. Any pupil who is absent from school four consecutive evenings, without satisfactory excuse, shall forfeit his **Absence.** membership, and shall not be readmitted unless by written permission of the committee having the school in charge.

143. A pupil may be suspended for disorderly conduct by the Principal, and such pupil shall not be readmitted **Suspension.** without a permit from the Superintendent or committee in charge.

144. School buildings shall be open for the registration of pupils on the Saturday evening preceding the date **Registration.** of opening.

TEXT-BOOKS AND SUPPLIES.

145. All text-books and supplies used in the public schools will be furnished by the City, in accordance with the requirements of the Public Statutes. **Free Text-Books.**

146. Teachers are responsible for all books furnished them for the use of their classes. They will make an entry of them, when they are received, in a book provided for the purpose, and will account for them to the Superintendent at the close of each school year. **Care of Books.**

147. All books shall be labelled, numbered, and charged to pupils before they are distributed. Upon the label, in each book, the name of the pupil using the book shall be written. **To be charged to Pupils.**

148. As far as practicable, each pupil shall use the same books during the entire course. Books of promoted pupils will be credited to the teachers whom they leave and charged to their next teachers. **Same Books to be used.**

149. Teachers will carefully examine all city books at least once each term, and report all injuries or loss of books as soon as discovered, to the Principal or the Superintendent, with the names of the pupils to whom such lost or injured books were loaned. **Inspection of Books.**

150. When any book is worn out or so injured that it is no longer fit for use, it shall be discharged from the teacher's account. Books used in the homes of pupils excluded from school on account of diphtheria or scarlet fever shall be destroyed. **Books to be discharged.**

151. In January and May of each year Principals shall indicate to the Superintendent, upon blanks furnished for the purpose, such text-books and supplies as will be needed in their several buildings during the succeeding **Requisitions for Supplies.**

five months. These estimates shall be referred to the Committee on Supplies.

Requests for additional books or supplies during the year must be made in writing to the Superintendent.

The receipt of books and supplies must be promptly acknowledged to the Superintendent on blanks supplied for the purpose.

SCHOOL DISTRICTS.

152. For the sake of convenient supervision, the schools of Somerville are grouped into five districts, as follows: East Somerville District, Winter Hill District, Prospect Hill District, Spring Hill District, and West Somerville District.

East Somerville District is separated from Prospect Hill District by the Lowell Railroad, from Cambridge line to Washington street, and by Tufts street, Auburn **School Districts.** avenue, and the Lowell Railroad, from Auburn avenue to Walnut street. The boundary line between East Somerville and Winter Hill districts extends from the Lowell Railroad to Mystic River, and is one hundred feet southeast of Walnut street and parallel to that street.

Winter Hill District is separated from Prospect Hill and Spring Hill districts by Highland avenue.

The Lowell Railroad and a line extending westerly from Lowell street to Highland avenue form the boundary between Winter Hill District and West Somerville District.

Prospect Hill District is separated from Spring Hill District by a line parallel to, and six hundred feet northwesterly from, School street, thence by Dane street to Beacon street, thence by Beacon street to Cooney street, thence by Cooney street to Cambridge line.

Spring Hill District is separated from West Somerville District by Mossland and Cedar streets.

APPEALS, ETC.

153. In all cases arising under these regulations or under any orders of the Board, appeals may be taken from **Appeals.** the decision of the teacher to the Superintendent, and from the Superintendent to the proper Standing Committee, and from the Standing Committee to the Board, and the decision of the majority of the Board shall be final. The person so appealing to the Board shall state in writing his grievance and the relief desired.

154. These rules and regulations shall take effect on the first day of September, 1896, and all previous rules, **Regulations** votes, and resolutions of the Board inconsistent **take Effect.** therewith, are hereby repealed.

DUTIES OF JANITORS.

RULES AND REGULATIONS ADOPTED BY THE COMMITTEE
ON PUBLIC PROPERTY, JUNE 10, 1896.

1. Janitors shall open and close their buildings every school day during the year.

2. They shall sweep the entries and stairways daily, after the last session of the school; the rooms, by Wednesday night, and again on Saturday of each week. The yards, out-houses, and basement are to be kept clean and in good order, and the sanitariums flushed every day and left clean at night. Dust the furniture daily; the windows, blinds, walls, and ceilings as often as necessary to keep them free from dust.

3. The floors and stairs throughout each school building shall be thoroughly scrubbed during each vacation. Kindergarten floors shall be scrubbed each month and swept daily. The doors, wainscoting and other woodwork, including the chairs and desks with the iron standards thereof, shall be thoroughly cleaned during each vacation. The windows shall be

thoroughly cleaned, outside and inside, three times in each year, in the months of March, August, and November. The transoms, windows and other glass inside of the building must be kept clean. The ink-wells shall be cleaned five times in each year, once in the months of August, November, February, and May, and once at the request of the Principal; or five times in each year at such intervals as the Principal may choose.

4. It shall be their duty, — to build fires when necessary, in season to have the rooms warmed to such temperature as the School Committee shall direct at the time for opening the schools. Where stoves are used, fuel sufficient for the day must be carried to the several rooms.

5. To use the fuel economically. To screen the ashes and use the screenings on the fires.

6. To remove the ashes and all other debris from the cellars in order that the ashes and debris can be collected by the city once a week.

7. To remove the snow and ice from the doorsteps and walks leading to the gates and out-buildings.

8. To keep the ice upon the sidewalks about the school buildings covered with ashes or sand.

9. To keep the grounds about the school buildings free from weeds and litter of all kinds; also to sweep and keep clean all brick and concrete walks within the school limits.

10. Janitors of buildings heated by steam, or where there is any steam or hot-water plant used for any purpose within the schoolhouse or out-buildings, will be held responsible for the safety of the pipes from freezing. In extremely cold weather they must take unusual precautions, by remaining either during the night or until satisfied of the safety of the apparatus.

11. Janitors of buildings where furnaces are used shall remain by them while the draft-doors are open. It is not

required that fires should be kept upon holidays, or during vacation, except enough to protect the apparatus, and to prevent damage by freezing.

12. Boilers should be blown clean as often as once each month, and the tubes cleaned once each week. The safety-valve should be tried occasionally, and all other valves looked after and kept properly packed. Ashes shall be drawn from under the boilers and furnaces each day.

13. Janitors shall maintain a general supervision of the estates during vacation. When workmen are employed on the premises, or when fuel is received, they shall see that none of the property in the building is misused, and they will be held responsible for any property stolen, or damage done through their negligence.

14. Janitors are not required to act as messengers for Principals, or other instructors, but it is expected that they will be obliging in this respect, and that teachers will be considerate in requesting such service.

15. Substitutes for janitors must be approved by the Committee on Public Property.

16. Should the Janitor neglect to perform his duty, the Principal or other authorized instructor will notify the Superintendent of Public Buildings. If there is a continued neglect on the part of any Janitor to perform his duties, the Superintendent of Public Buildings will report said Janitor to the Committee on Public Property.

17. Janitors of all eight and twelve-room schools, in addition to the time required for the performance of regular duties, shall be in attendance at their buildings one-half hour before opening of regular session, and remain one-half hour after regular afternoon session, or as late as half-past four in the afternoon.

18. Janitors of other buildings will give as much of their time, in addition to the time required for the performance of

their regular duties, as the Committee on Public Property shall direct, and must report to the Principal sometime during the school session of each day.

19. They will open their buildings evenings for school purposes and have them properly warmed when requested by the Superintendent of Schools, and at such other times as the Committee on Public Property may direct. They will remain in their building during the evening session, and, before leaving, see that the building is secure against fire, and the windows and doors through which access may be obtained to the building securely locked.

20. In rainy weather, when the walks and yards are muddy, primary school-rooms are to be swept daily if need be.

21. No Janitor shall be employed in a steam-heated building without a license. By a rule of the District Police, any Janitor who shall leave his boiler for more than one-half hour while schools are in session shall forfeit his license.

22. Janitors shall be present in their buildings on such days during the last week of the summer vacation as the Superintendent of Schools may indicate, to receive school supplies and to aid the Principal in their distribution.

23. Janitors shall wind and regulate the school-room clocks, and shall have the care, under the Principal, of the school flags. They shall display the same on every school day when the weather is suitable, and also on every legal holiday.

24. Smoking and the use of profane language in or about the buildings are strictly prohibited. No person shall be employed as a Janitor who uses any intoxicating liquor as a beverage.

25. Note.—It is understood that Janitors in the performance of their duties are under the direction of the Superintendent of Public Buildings, and the Principals of the respective schools.

FREDERICK C. FULLER,

Superintendent of Public Buildings.

[Circular issued by State Board of Education, December, 1898.]

MASSACHUSETTS SCHOOL LEGISLATION.

Respects wherein the Massachusetts Legislation of 1898 concerning the Employment of Children at Labor and the Attendance of Children at School Differs in its Provisions from the Legislation Previously in Force.*

I.

EMPLOYMENT OF CHILDREN.

[Chapter 494, Acts of 1898.]

Certain Employment of Children under Fourteen Forbidden.—Section 1 changes from thirteen to fourteen the age below which no child shall be employed in a factory, workshop, or mercantile establishment. It forbids his employment for wages while school is in session, and all employment before six in the morning and after seven in the evening. It strikes out the requirement of thirty weeks' attendance at school during the year after a child is thirteen before he can be granted a certificate that he is fourteen, attendance now being required all the time up to fourteen.

* Since the object of this circular is mainly to call attention to the principal changes made in the new legislation, it omits many of its minor details and a large part of its language. *Careful reference, therefore, should be made to the full text of the statutes themselves.*

Employment of Minors Between Fourteen and Sixteen; also of Illiterate Minors.—Section 2 requires that no child under sixteen years of age shall be employed in a factory, workshop, or mercantile establishment *unless* the employer:—

1. Procures and keeps on file, and accessible to truant officers, the district police, and inspectors of factories, age and schooling certificates for all such children employed, the limits of age for such children now being fourteen years and sixteen years, instead of thirteen and sixteen, as heretofore.

2. Keeps *two* complete lists, instead of one as heretofore, of all such children employed therein, one on file as heretofore, and the additional one now required conspicuously posted near the principal entrance of the building in which such children are employed.

3. Keeps on file a complete list of *all minors* employed who cannot read at sight and write simple sentences in the English language,—a new requirement and applicable to persons from fourteen to twenty-one years of age.

4. Sends to the superintendent of schools, or where there is no such superintendent, to the school committee, the names of all such illiterate minors employed,—also a new requirement.

Signing the Age and Schooling Certificate.—Section 3 re-enacts certain provisions about the signing of the age and schooling certificate. It authorizes a committee which employs no superintendent to appoint any person, not necessarily one of its own members as heretofore, to sign certificates, and omits the provision which authorized any justice of the peace to administer the oath provided for in the certificate.

Evidence of the Minor's Age.—Section 4 simplifies the old law somewhat with reference to the evidence of age; it designates the last school census, the certificate of birth or baptism, or the register of birth with a town or city clerk, as

means of furnishing satisfactory evidence of the child's age ; or other satisfactory evidence may be accepted. It omits that provision of the old law which designated the circumstances under which a child of thirteen might receive an age and schooling certificate, the new law forbidding the granting of such a certificate to a child under fourteen.

An Employment Ticket to Precede the Granting of an Age and Schooling Certificate.—Section 5 provides that before a child under *sixteen*, instead of fourteen, as in the old law, can be granted an age and schooling certificate, he must present to the person authorized to approve and sign the same an *employment ticket*, duly filled out and signed. A section of the certificate declares that the certificate is to be surrendered to the child when he leaves the employer's service, but if not claimed by said child within thirty days from the ending of his service, it is to be returned by the employer to the superintendent of schools, or, where there is no superintendent, to the school committee.

Certain Penalties Modified.—Section 6 modifies somewhat the penalties prescribed in the old law. It limits to a fine the penalty for certifying to any materially false statement in the age and schooling certificate, omitting imprisonment.

Conditions under which Illiterate Minors may be Employed.—Section 7 renews old provisions, that no minor who cannot read at sight and write simple sentences in the English language shall be employed while a public evening school is maintained in the town or city in which he resides, *unless* he attends a day school, or has a permit issued by the superintendent of schools, or, *unless* his teacher certifies each week that he is in regular attendance at such evening school (not in attendance seventy per cent. of the time as heretofore).

Truant Officers Authorized to Visit Factories.—Section 8 authorizes truant officers to visit factories, workshops, and

manufacturing establishments without that special direction from the school committee which the old law required, and requires these officers to report any cases of illegal employment of minors therein to the school committees of their respective towns and cities, and to the chief of the district police, or to the inspector of factories for the district. It provides that complaints under this act shall be brought by inspectors of factories only, not by truant officers or inspectors, as in the old law.

II.

ATTENDANCE AND TRUANCY.

[Chapter 496, Acts of 1898.]

Length of Schooling and Subjects to be Taught.—Section 1 extends to thirty-two weeks the time the public schools must be maintained. The time required under the old law was thirty-two weeks for towns of four thousand or more inhabitants, and twenty-four weeks for all other towns. To the studies that may be taught at the option of the school committee are added book-keeping, geometry, one or more foreign languages, the elements of the natural sciences, kindergarten, manual and physical training, civil government and ethics, with such other subjects as the school committee may deem expedient.

The High School.—Section 2 requires every town of five hundred families or householders, and permits any town, to maintain a high school, adequately equipped, to be kept by a principal and such assistants as may be needed, of competent ability and good morals. The distinction hitherto made between two grades of high schools is abolished.

The following requirements apply to every high school, whether it is kept in obedience to the statute or voluntarily:—

1. Instruction shall be given in such subjects designated in section 1 as it may be deemed expedient to teach in the high school, and in such additional subjects as may be required for the general purpose of training and culture, as well as for the special purpose of preparing pupils for admission to State normal schools, technical schools and colleges.

2. There shall be at least one course of study four years in length, and the school shall be kept for forty weeks at least, exclusive of vacations, in each year.

3. A town may, if it chooses, meet only a portion of the foregoing requirements in its own high school; *provided* that it shall make adequate provisions for meeting the rest of said requirements in the high school of another town or any city.

Payment of High School Tuition required of Certain Towns.— Section 3, which provides that any town of less than five hundred families or householders that does not maintain a high school shall pay for tuition in a high school of another town or city, requires that a child who is to attend the high school in such other town or city shall have completed the course of instruction provided by the former town, and shall be, in the opinion of the superintendent of schools or the school committee of said former town, properly qualified to enter such high school. Towns whose valuation is under \$500,000 are entitled to State reimbursement for high school tuition expenses incurred under this section, but not for high school transportation expenses.

Manual Training.— Section 4 requires that every town or city of twenty thousand or more inhabitants shall maintain the teaching of manual training not only in connection with its high school system, but also in connection with its elementary schools.

Section 5, which requires the maintenance of an evening school by every town of ten thousand or more inhabitants and

permits it by all towns, restricts the provision to children over fourteen years of age, and, among the branches to be taught, specifies "industrial drawing, both freehand and mechanical."

Evening High Schools.—Section 6 re-enacts a section of the old law, requiring evening high schools in cities of fifty thousand or more inhabitants.

Right of the Child to Schooling.—Section 7 declares it to be the right of every child to attend the public schools in the town or city in which his parent or guardian has a legal residence, or in which the child himself actually resides.

Payment for the Child's Schooling in Certain Cases.—Section 8 makes provision for the payment of a child's schooling in a town or city other than that in which his parent or guardian resides :—

1. By the parent or guardian of the child if the child resides in said town or city for the sole purpose of attending school there, the sum to be paid being as defined in the section.
2. By the State for "State wards" between five and fifteen years of age, the sum to be paid being fifty cents for each week of five days, including the expense incurred for transporting such wards to schools.*
3. By the city of Boston for children "placed out" by the trustees for children of said city or kept under the control of said trustees, the sum to be paid being fifty cents for each week of five days, including the expense incurred for transporting such children to school.
4. By institutions containing more than six inmates in any town of less than ten thousand inhabitants for any child so attending between the ages of five and fifteen years, not

* Chapter 108, Resolves of 1898, authorizes the Commonwealth to pay transportation expenses, in certain cases, from April 1, 1898, to September 1, 1898.

theretofore resident in such town, the sum to be paid being determined in accordance with the provisions of the section.

Redress for Unlawful Exclusion from School.—Section 9, which provides for redress in case a child is unlawfully excluded from school, omits the requirement in the old law that teachers shall state in writing the cause of such exclusion.

Permission to Attend School out of Town.—Section 10 re-enacts the old provision that permits a child, with the consent of the school committee, and at the expense of the town or city in which the child lives, to attend school in another town or city.

Contagious Diseases.—Section 11 adds measles to small-pox, diphtheria, and scarlet fever as a reason for restraining a child from attending school. Three days must have elapsed since recovery in the case of measles (two weeks in the other cases) before return to school is permissible.

Compulsory Attendance.—Section 12 makes attendance upon a public school compulsory for all children between the ages of seven (instead of eight, as heretofore) and fourteen years during the entire time (instead of thirty weeks, as heretofore, and without an allowance for two weeks of unexcused absence, as heretofore) the public schools are in session.

Excepted from these provisions are (a) children that are attending approved private day schools or receiving instruction equal to that given in the public schools; (b) children that are compelled by necessity to be absent, including children whose physical or mental condition renders their attendance inexpedient or impracticable.

The provision in the old law which extended to fifteen years the age of compulsory attendance wherever manual training was taught is repealed.

A clause in this section requires parents or guardians to cause children under their control to attend school according to law.

School Census Forms.—Section 13, in addition to certain forms required under the old law, requires the Board of Education to prescribe the forms for a school census.

Secretary of the School Committee to receive Forms and to discharge Certain Duties.—Section 14 provides for sending, with other forms, as hitherto, forms for the census to the secretary of each school committee (instead of to the town clerk, as heretofore), whose duty it is to deliver the same to the several persons charged with duties in connection therewith. It is also made the duty of this officer to forward to the secretary of the State Board of Education a list of the private schools in the town or city, together with the names of their principals.

Failure to Receive Forms of Inquiry.—Section 15 relates to the duty of the secretary of the school committee (instead of the town clerk) in case of his failure to receive the forms that should be sent to him.

Taking of the School Census.—Section 16 provides that the school census shall include the names and ages, with such other facts as may be designated by the State Board of Education, (a) of all persons between five and fifteen years of age, and (b) of all minors over fourteen years of age who cannot read at sight and write simple sentences in the English language residing in their several towns and cities on the first day of September, such record to be completed on or before the first day of October. The first census under this requirement is to be taken in September, 1899.

Returns of School Committees.—Section 17, which relates to statistical returns from school committees, requires (1) that the sworn certificate to accompany such returns shall be signed uniformly by the chairman and secretary of the school committee (instead of by a majority of the school committee, as in certain cases heretofore); and (2) that the certificate shall state the number of children in town between seven and fourteen

years of age, in addition to such other items as are required by law to be returned.

Duties of the School Committee with Reference to Registers and to Money from the School Fund.—Section 18 is a re-enactment of the old law requiring school committees to cause school registers to be faithfully kept and to specify the purposes for which money from the school fund is used.

The Teacher's Duty in Connection with the School Register.—Section 19, which re-enacts the law requiring teachers faithfully to keep school registers, further provides :—

1. That registers of attendance shall be kept daily.
2. That they shall be kept at the schools and open to inspection during school hours.
3. That no pupil's name shall be omitted in counting the number of persons belonging to the school and the number of absences of such pupil until ten consecutive days of absences have been recorded, or until it is known that such pupil has withdrawn from the school without intention of returning.
4. That a pupil who is not present at least half of a session shall be marked and counted as absent for that session.

Irregular or Delayed Returns.—Sections 20 and 21 are re enactments of the old law concerning school committee's returns which are irregular, incomplete, or too long delayed.

Establishment of Truant Schools.—Section 22 is largely a re-enactment of the old law requiring county commissioners to establish and maintain county truant schools in their respective counties. The principal added provisions in the present law are :—

1. The county commissioners of Barnstable, Berkshire, Dukes and Nantucket counties are exempt from establishing truant schools, but are required, instead, to assign a truant school established by law as the place for the instruction and training of persons committed to truant schools from their respective counties.

2. For the purposes of this act, the Parental School of Boston is to be deemed the county truant school for Suffolk County.

3. For the purposes of this act, Chelsea, Revere and Winthrop are to be considered as belonging to Middlesex County.

4. For the maintenance of each child sent to a truant school, towns and cities other than the above named are to pay one dollar a week (instead of two dollars, as heretofore), the above named being required to pay two dollars and fifty cents a week, and such additional sums as shall cover the actual cost of maintenance.

Visitation of Truant Schools. — Section 23 provides that the State Board of Education and the State Board of Lunacy and Charity shall visit the county truant schools and report concerning them annually to the Legislature.

Habitual Truants, Absentees, and School Offenders. — Sections 24, 25 and 26 name and more fully describe three classes of children that may be committed to truant schools, or elsewhere, under this act, namely:—

1. Habitual truants, — children between seven and fourteen years of age who wilfully and habitually absent themselves from school.

2. Habitual Absentees, — children between seven and sixteen years of age who may be found wandering about in the streets or public places, having no lawful occupation, habitually not attending school, and growing up in idleness and ignorance.

3. Habitual school offenders, — children under fourteen years of age who persistently violate the reasonable regulations of the school which they attend, or otherwise misbehave so as to render themselves fit subjects for exclusion therefrom.

Commitments of such children, in case of conviction, if boys, may be made to county truant schools, or, in certain cases, to

the Lyman School for Boys; if girls, to the State Industrial School for Girls; or they may be placed on probation, as provided in Section 28 of this act.

Support of a Child in a Truant School to be paid for by the Parent if so Ordered. — Section 27 provides for the payment, at the discretion of the court, by the parent or guardian for the support of a child while an inmate of a truant school.

Probation. — Section 28 provides for placing upon probation under a truant officer or a probation officer a child convicted of an offence under this act, and for other disposition of such child in case he violates the conditions of his probation.

Parole and Discharge. — Section 29 makes new provisions (1) for the parole and discharge of a child committed to a county truant school; (2) for revoking such parole and for the arrest of the paroled child; and (3) for the right of the superintendent or the school committee to be heard upon a proposal to parole or to revoke a parole.

Releases from the Parental School of Boston are to be governed by the provisions of chapter 514 of the Acts of the year 1896.

Transfer from Truant Schools in Certain Cases. — Section 30 provides for the transfer, by order of the court, from a county truant school to the Lyman School for Boys or to the Concord Reformatory, of any inmate who persistently violates the reasonable regulations of said truant school or who is guilty of indecent or immoral conduct while connected therewith.

Penalties for Neglect to Send Children to School and for Inducing Unlawful Absence. — Section 31 provides:—

1. That any person who, having under his control a child between seven (instead of eight, as heretofore) and fourteen years of age, fails for five day sessions or for ten half-day sessions within any period of six months to cause such child to

attend school as required by law, shall forfeit and pay a fine of not more than twenty dollars. The child's attendance is required for the full time the school is kept, instead of thirty weeks, as heretofore, and the allowance of two weeks for unexcused absence is no longer permitted.

2. That a fine of not more than fifty dollars shall be imposed upon a person for inducing any child to absent himself unlawfully from school, or for employing or harboring a child unlawfully absent from school.

Jurisdiction and Procedure. — Section 32 tells what courts shall have jurisdiction in cases arising under this act, and indicates the method of procedure.

Truant Officers. — Section 33 requires the school committee of every town and city (1) to appoint one or more persons (instead of two, as in the old law) to be designated as truant officers; (2) to make rules and regulations governing said officers; and (3) authorizes school committees of two or more towns or cities to employ the same truant officer or officers.

Duties of Truant Officers. — Section 34 directs truant officers to inquire into all cases arising under this act and authorizes them to make complaints, serve processes and carry into execution judgments thereunder. The old provision that they shall do this "under direction of the school committee" is dropped. They are to proceed directly under the provisions of this act, by-laws having been done away with. They are also to serve as probation officers as required by Section 28.

Neglected Children. — Section 35 provides for the commitment of neglected children, so called, up to the age of sixteen (instead of fourteen, as in the law of 1888), as follows: —

1. To the custody of the State Board of Lunacy and Charity if the children have no known settlement.

2. To the overseers of the poor in towns and cities in which the children are known to have a settlement.

3. To the directors of public institutions in the city of Boston if such children have a settlement in said city.

The section further provides for the maintenance and disposition of children so committed.

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REPORT
OF THE
WATER COMMISSIONERS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 15, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 16, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

BOARD OF WATER COMMISSIONERS, 1898.

GEORGE D. WEMYSS, *President.*

WM. FRANKLIN HALL (term expires Dec. 31, 1898).

Residence, 345 Broadway.

GEORGE D. WEMYSS (term expires Dec. 31, 1899).

Residence, 5 Austin street.

GEORGE A. KIMBALL (term expires Dec. 31, 1900).

Residence, 33 Warren avenue.

**SUPERINTENDENT OF THE WATER WORKS AND CLERK OF
THE BOARD.**

FRANK E. MERRILL.

OFFICE OF THE WATER DEPARTMENT.

Room 10, City Hall..

ENGINEER AT PUMPING STATION.

SIDNEY E. HAYDEN.

PUMPING STATION AND SHOP.

Cedar street, near Broadway.

Bills against the department should be rendered to the Superintendent on or before the first day of each month, and are payable by the City Treasurer on the seventeenth of the month.



WATER WORKS BUILDING — FROM CEDAR STREET.

CITY OF SOMERVILLE.

OFFICE OF THE BOARD OF WATER COMMISSIONERS,
January 12, 1899.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL :—

The Board of Water Commissioners present herewith, for your consideration, the twenty-fifth annual report of the department in their charge, covering the operations of the year ending December 31, 1898.

The Board organized on the 3rd of February by the re-election of George D. Wemyss as President and Frank E. Merrill as Clerk of the Board. On the 8th of March Mr. Merrill was elected Superintendent of the Water Works, having been certified for promotion to that office by the State Board of Civil Service Commissioners.

By legislative enactment (Chap. 33, Acts 1898), approved February 8, the name of the Somerville Mystic Water Board, established by Chap. 182, Acts of 1890, was changed to the Board of Water Commissioners of the City of Somerville.

FINANCES.

COST OF WATER WORKS.

The total cost of the water works on December 31, 1897, was	\$694,608.76
Expended during the year 1898 on construction account	26,970.22
Total cost December 31, 1898	<hr/> \$721,578.98

WATER DEBT.

The indebtedness of the city on account of the water works on December 31, 1897, was \$294,000; this debt has been reduced during 1898 by the payments of bonds, maturing July 1

and October 1, to the amount of \$22,000 ; the indebtedness being now represented by bonds drawing interest as follows :—

\$234,000.00 at 4 per cent. per annum.
28,000.00 at 5 per cent. per annum.
10,000.00 at 5 1-2 per cent. per annum.

WATER REVENUE.

Earnings of the department in 1898 from the sale of water	\$207,195.16
Water bills uncollected, Dec. 31, 1898	11,739.01
<hr/>	
Cash collections in 1898	\$195,456.15
Received from City of Boston, water rates uncollected in 1897	5,278.88
<hr/>	
Cash income, 1898	\$200,735.03

The disposition of this income was as follows :—

Appropriated by the City Council for the use of the water department	\$85,278.88
Appropriated by the City Council for the use of other departments	67,280.96
Metropolitan Water Works Assessment	14,250.19
Applied to interest on water debt	11,925.00
Applied to reduction of water debt	22,000.00
<hr/>	
	\$200,735.03

The following table, exhibiting the financial condition of the department from its first movements, is presented for reference and comparison :—

YEAR.	Water Loan Bonds Issued on Funded Debt Account.	Reduction of Funded Debt by Payments of Water Loan Bonds.	Expenditures for Construction of Water Works.	* Revenue from Water Works.
1869	\$80,000.00		\$92,203.27	\$ 911.39
1870	60,000.00		66,546.50	1,907.63
1871	60,000.00		43,648.66	3,151.30
1872	90,000.00	\$50,000.00	43,288.33	3,719.91
1873	60,000.00	20,000.00	27,691.26	5,084.97
1874	15,000.00		34,294.06	6,818.20
1875	20,000.00		13,375.76	9,652.37
1876	70,000.00	60,000.00	6,409.49	10,268.06
1877	10,000.00		13,845.74	10,735.90
1878	30,000.00	30,000.00	514.13	11,584.89
1879			791.56	12,341.60
1880	60,000.00	60,000.00		12,999.79
1881	40,000.00	40,000.00		14,697.37
1882	90,000.00	90,000.00		19,354.28
1883	7,500.00	7,500.00		19,661.67
1884	20,000.00	20,000.00		20,085.95
1885	20,000.00	20,000.00		21,542.28
1886	55,500.00	55,500.00		21,444.91
1887	9,000.00	9,000.00		42,650.57
1888	25,000.00	96,500.00	19,338.89	50,419.07
1889	90,000.00	19,000.00	81,117.43	51,470.91
1890	55,000.00	13,000.00	53,411.79	55,879.72
1891	10,000.00	†11,000.00	40,708.48	60,150.80
1892	28,000.00	28,000.00	34,863.17	77,640.91
1893		17,000.00	35,545.30	78,459.73
1894		18,000.00	28,375.67	83,401.30
1895		19,000.00	32,007.44	89,431.46
1896	‡12,000.00	18,500.00	16,631.83	95,719.69
1897		21,000.00	10,000.00	99,688.57
1898		22,000.00	26,970.22	200,735.03
	\$1,017,000.00	\$745,000.00	\$721,578.98	\$1,191,610.23

Total issue \$1,017,000.00

Total payments 745,000.00

Present water debt \$272,000.00

* From 1869 to 1886, inclusive, the basis of Somerville's water revenue was as follows:—
The entire revenue from sale of water in Somerville was collected by the City of Boston and payments were made to this city on the following sliding scale:—

On annual receipts up to \$20,000.00, Somerville's proportion was 15 per cent.
On annual receipts \$20,000.00 to \$30,000.00, Somerville's proportion was 20 per cent.
" " \$30,000.00 to \$40,000.00 " " " 25 " "
" " \$40,000.00 to \$50,000.00 " " " 30 " "
" " exceeding \$50,000.00, Somerville's proportion was 40 per cent.

In 1887 the contract was changed so that Somerville should receive 50 per cent. of the revenue, and this contract existed until January 1, 1898, on which date it was annulled, the revenue since that time being collected by the City of Somerville.

† In 1891, \$5,000.00 of Water Loan Bonds were cancelled, City Loan Bonds being substituted for them.

‡ Renewal.

The city is to be congratulated on the results of the first year's entire management of its own water works. Although most of the office work, including the making of assessments and preparation of the bills for collection, was entirely new to the department, it has been performed with little or no friction.

We feel that the credit for this is due to the very efficient work of our superintendent and his assistants. It has been a great source of pleasure to the water takers to be able to get all desired information, in connection with the operation of the department, as well as to pay their water bills, without going to a neighboring city for that purpose, as heretofore.

WATER SUPPLY.

The Metropolitan water was introduced on the first of the year. The city now has a water supply which equals that of almost any city in the country, both as regards quantity and quality.

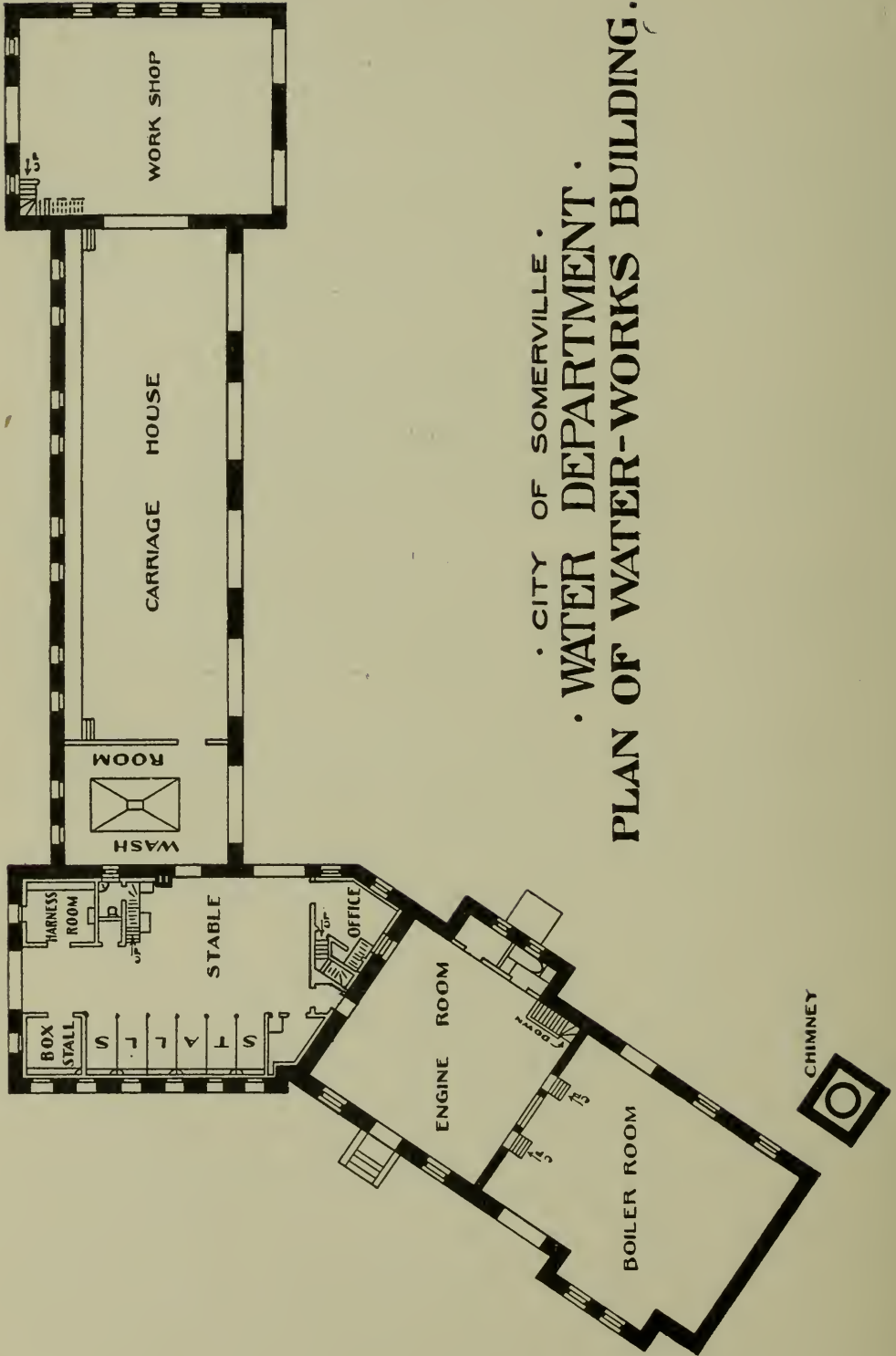
This system will provide us with an abundant supply of excellent water for generations to come. The city has every reason to be satisfied and pleased with this new condition of things.

There are times when there is considerable sediment in the water in different parts of the city, especially in the vicinity of dead ends; this condition is largely due to dirt getting into the pipes when there are breaks, and it will be improved as the cement-lined pipes are removed and the circulating system is extended.

RENEWALS, EXTENSIONS, ETC.

The year just closed has been one of the most important, as regards the amount of work accomplished, in the history of the department; 7,536 feet of pipe of various sizes have been laid in extension of the works; 22,643 feet of cast-iron pipe have been laid in place of the old cement mains; 42 new hydrants have been set, making a total of 863 in the city; 64 additional gates and 2 check valves have been put in, and 205 service connections have been laid.

There now remains about nine miles of cement-lined pipe in our streets, but only a portion of it has given any trouble.



· CITY OF SOMERVILLE ·
· WATER DEPARTMENT ·
PLAN OF WATER-WORKS BUILDING.

NEW DEPARTMENT BUILDING.

During the year we have erected a brick building, adjoining and connected with the pumping station, containing a stable constructed on the most approved plans, with seven stalls and all conveniences; including also a commodious wagon shed and storehouse, and a convenient workshop.

This enables us to concentrate the teams and all the material of every description needed for carrying on the work of the department at this one place, resulting in a great convenience and a large saving in time and energy heretofore necessarily spent by having the teams kept at one end of the city and the materials required to do our work kept at the other end.

A man is on duty night and day, so that emergencies can be attended to without delay, thus making it possible to repair leaks and breaks with the least inconvenience to the public.

The building cost, complete, \$15,513.55; this includes grading and filling outside, granolithic flooring, plumbing, heating, electric wiring, etc., not included in the contract. By the new arrangement we have been able to discontinue the use of one telephone and make savings in other directions sufficient to justify the cost of the new building.

The old buildings which had so long served the purpose of office, workshop and stable have been placed at the disposal of the City Council.

HIGH SERVICE.

The high-service pumping plant has continued to work satisfactorily and is in first-class condition. The pump and woodwork of the pumping room have received a thorough cleaning and coat of varnish.

In order to carry out their plans, pending the completion of the Fells pumping station, the Metropolitan Water Board desired to use our pumping plant in connection with others in the Northern Metropolitan District, in order that the pumping might all be done into the general high-service system. Such an arrangement has, therefore, been made in order to facilitate the operation of the high-water service in that district.

WATER REVENUE.

It is very gratifying to the Commissioners that the income department of the works has, the first year of its operation, made such an excellent showing.

Reference to the details furnished in the report of the superintendent shows the earnings of the water works for the year to have been about \$207,000.00, closely approaching our estimate of \$210,000.00, given a year ago. This variation is easily attributable to the general business depression, entailing a considerable falling off in building construction.

The Board has very carefully considered the question of giving to the water consumers a portion of the benefits which may come under the provisions of the Metropolitan Water Act, by which the city is now obtaining its water from the sources controlled by the Metropolitan Water Board. The matter was gone over in all its bearings, estimates having been carefully made of the probable earnings and expenditures of the works for the next ten years.

The increase in assessments under the Metropolitan Water Act were taken into consideration; the certainty of an early and large decrease in expenses of maintenance of our own works, and the probability of about the same ratio of increase in the earnings of the department as has been shown in the last ten years were given due weight.

On the basis of an average income for the next ten years of but \$210,000.00 per year and of average expenses for the same time, including payments of maturing bonds, interest requirements, maintenance and extension of our works, and Metropolitan water-works assessments, all of which, by a fair estimate, will not exceed \$127,000.00 per year, there would be an average surplus over expenses of \$83,000.00 per year.

On this conservative basis it appears that a ten per cent. reduction in the water rates might be made which would benefit the water-tax payers to the extent of about \$21,000.00 per year and would still leave a surplus of earnings to be devoted to municipal purposes of over \$60,000.00 yearly.

The judgment of your Commissioners culminated, therefore, in the passage of a vote on December 5th, to make a discount of ten per cent. on all water bills for the year 1899.

The Metropolitan Water Act provides in Section 20 that the Water Commissioners shall determine the rate to be paid for water by the owner of the premises to which water is furnished, subject to the approval of the Mayor and of the Metropolitan Water Board.

In accordance with these requirements of the statutes, a communication was sent to the Mayor on December 6th, stating the action of the Board and asking his approval of the proposed reduction in the water rates. A similar communication was also forwarded to the Metropolitan Water Board, and action thereon was taken by that body on December 9th, the new schedule of rates being approved by that Board.

Our Mayor, however, after having given the matter careful thought and consulted with representative citizens and taxpayers from different sections of the city, felt compelled to dissent from the judgment of the Board relative to the expediency of making a reduction at the present time, and in a letter dated January 5th, very courteously, and with a full explanation of his reasons, declined to give his assent to the proposed reduction, and, therefore, the action of the Water Commissioners therein became inoperative. The Commissioners regret that they were not permitted to carry out their intention regarding a reduction of the water charges, yet they hope by another year this may be brought about.

For details regarding the condition and operation of the works during the year, reference is asked to the report of the Superintendent, presented in connection herewith.

GEORGE D. WEMYSS.

GEORGE A. KIMBALL.

WM. FRANKLIN HALL.

Board of Water Commissioners.

OFFICE OF SUPERINTENDENT OF THE WATER WORKS,
January 14, 1899.

TO THE BOARD OF WATER COMMISSIONERS:—

Following the usual custom, I respectfully submit herewith the annual detailed statement of the work performed by the water department during the year 1898.

The following table shows the

RECEIPTS AND DISBURSEMENTS FOR THE YEAR 1898.

WATER MAINTENANCE ACCOUNT.

	Dr.	Cr.
Amount appropriated by City Council from water revenue		\$65,278.88
Collections from sundry accounts for labor and materials		3,178.18
Collections from other sources		102.00
Balance from water service assessments		383.95
Materials furnished service department	\$ 1,597.06	
Labor and materials furnished sundry persons	1,447.37	
Labor and materials used in maintenance of the water works	65,856.62	
Balance to credit of water debt	41.96	
	\$68,943.01	\$68,943.01

WATER WORKS EXTENSION ACCOUNT.

	Dr.	Cr.
Amount appropriated by City Council from water revenue		\$20,000.00
<i>Amount carried forward</i>		\$20,000.00

<i>Amount brought forward</i>		\$20,000.00
Amount transferred by City Council from maintenance account		7,000.00
Labor and materials used in extension of the water works	\$26,970.22	
Balance to credit of water debt	29.78	
	<hr/>	<hr/>
	\$27,000.00	\$27,000.00

WATER SERVICE ACCOUNT.

	Dr.	Cr.
204 water service assessments		\$3,516.24
Collections for extra labor and material on above services		8.98
Labor and materials used in water service construction	\$3,141.27	
Balance transferred to water maintenance account	383.95	
	<hr/>	<hr/>
	\$3,525.22	\$3,525.22

ACCOUNTING DEPARTMENT.

The income of the water works is derived from the sale of water, the charges therefor being grouped in three general divisions, viz. :

Annual charges : made at the beginning of the year and payable in advance.

Additional charges : made during the year for fractional parts thereof, or for specific purposes.

Metered charges : made at the close of each quarter for the sale of water by meter for the preceding three months.

The following table gives a summary of the work of the income department to December 31 :—

Total amount of all water bills rendered consumers in 1898	\$212,460.26
Total amount abated consumers in 1898	5,265.10
	<hr/>
Apparent earnings of Water Department, 1898	\$207,195.16
<i>Amount carried forward</i>	\$207,195.16

<i>Amount brought forward</i>		\$207,195.16
Total amount collected by City Treasurer, Dec. 31, 1898		195,456.15
		<hr/>
Uncollected water bills Dec. 31, 1898		\$11,739.01
Uncollected bills are apportioned as follows :—		
Metered water charges due Jan. 1, 1899	\$11,700.95	
Annual water charges	10.00	
Additional water charges	28.06	
	<hr/>	\$11,739.01

From the above exhibit it will be seen that the water charges for the year have been practically all settled, the uncollected bills for metered water not being due until January 1, 1899, and consumers being then allowed ten days for their payment.

Herewith is shown a table giving the causes for which abatements were authorized and the amount of each :—

ABATEMENT TABLE.

Vacant premises	\$2,141.84
Hose charges	1,475.00
Changes in ownership	208.20
Changes in premises, fixtures or occupation	520.15
Incorrect valuations and assessments	372.14
Incorrect meter registration and reading	406.94
Supplies discontinued	123.83
Uncollectible	17.00
	<hr/>
	\$5,265.10

The large abatement on vacant premises is accounted for by the fact that all premises, whether occupied or not, are assessed unless the water has been shut off or fixtures sealed by this department. It has been the policy of the department to be strictly equitable and as liberal as the merits of each case would warrant.

In many cases hose charges were abated on account of the changes made in the method of street watering. A large number of hose services on which abatements were granted early in the season, were afterwards again assessed and paid for.

It is expected that the abatement table will decrease in amount hereafter when conditions become more fully adjusted to our present system of accounting.

The card system of accounts which was devised for the clerical work of the department has, after a year's thorough test, demonstrated its entire adaptability to every requirement. The system is very flexible, and no failure in its operation has occurred.

During the month of January a large amount of work preparatory to getting the more than ten thousand water bills into the hands of the consumers is required to be performed in a very few days, and the modern methods which have been adopted in conjunction with the collecting department, could not be carried out by the use of the old style of book accounts. Except during the period above mentioned, two assistants are sufficient to perform all the office duties, which include a large amount of bookkeeping and routine work incidental to the operation of the department. Two temporary assistants are required during a portion of the month of January.

INSPECTION DEPARTMENT.

The city has been thoroughly canvassed for the data necessary in making up the yearly water charges ; every building has been inspected for water fixtures at least once, and each street has been traversed a second time for the purpose of obtaining any changes in buildings that may have been made since the first round.

The duties of the inspector require him also to have a sharp lookout for defective fixtures causing waste of water, and to see that the necessary remedies are applied. It has been found that one inspector is sufficient to perform all the duties required in this department and to be of assistance in other branches of the work. Defective fixtures have been discovered in 179 premises and the customary waste notices have been issued. In all these cases the department regulations have been complied with, and generally with promptness, only 11 second notifications having been necessary.

It may be argued that little attention need be paid to the subject of waste of water on account of the practically unlimited supply back of us, but it should be remembered that all the water furnished to this city has to be pumped at the Chestnut Hill station, and a large portion of it again pumped at our own station; consequently, the greater the waste, the larger the quantity of water that has to be pumped, and the correspondingly larger cost of operating the works, for which we are assessed our share.

RENEWAL OF STREET MAINS.

As has been the case in all recent years, the energy of the department in its street work has been most largely devoted to the replacing of the old cement-lined water mains with iron pipe. The pipes thus substituted have in most cases been of larger diameter than the old mains, thereby benefiting the circulating system by furnishing a greater abundance of water than was previously afforded.

Effort has been made the past season to relay all the street mains which have previously given the department any trouble, with the resultant effect that the number of breaks has been reduced to a minimum, and damages have been very slight.

A number of breaks occurred early in January, as the result of the increased pressure on our mains from the introduction of the Metropolitan water supply, and several were caused in December by the addition of the College Hill district to our high-service system. There is now in our streets about nine miles of the cement-lined pipe, which is growing weaker every year, and a large portion of it should be replaced during the coming season.

The work has been carried on in harmony with the highway department, and several streets which were to be repaired by that department have first received my attention by laying new water mains so that the streets need not be again dug up and the surface injured by the water works. There has been relaid during the year 22,643 feet of pipe of various sizes, as shown in the tabular statement appended hereto. The old pipe in Broadway, from Central street to Cedar street, has been abandoned, the high-service main now furnishing the supply along that line.

I recommend that the cement-lined pipes in the following streets be replaced with iron mains the coming season:— Adrian street, Berkeley street, Bow street place, Broadway westerly from Cedar street, Chapel street, Conwell avenue, Cooney street, Curtis street, Curtis avenue, Elm street, Elm court, Grove street, Howe street, Jenny Lind avenue, Line street, Main street, Marion street, Miller street, Moreland street, Oxford street, Park street, Professors' row, Quincy street, School street, Smith avenue, Villa avenue, Winslow avenue, Wyatt street and sundry connections, making a total of about 16,000 feet.

EXTENSION OF STREET MAINS.

Less call than usual has been made during the year for extension of the pipe system into new streets, owing largely to real estate depression and falling off in building operations. Several hundred feet of mains were laid on construction account in Cross street and Temple street, at the time the renewal work was in progress at those points, for the purpose of establishing a circulation for the high service, thereby doing away with a number of dead ends. The connecting up of dead ends and perfecting the high service circulating system should be made a special feature of the work of the coming season. Dead ends in water mains have come to be considered not only disagreeable, but an actual source of danger to the health of those who draw their water supply from them, and a speedy effort should be made to free our entire system of them.

The works have been extended during the year by the addition of 7,536 feet of pipe of various sizes, as shown in the tabular statement thereof. The total pipe mileage of the city is approximately 78 miles, 2,442 feet.

I renew my recommendation of last year that high service circulating mains be laid in Medford street, Central street, Munroe street, Bow street, Elm street, Beech street, and Cedar street, a total length of about 5,550 feet. As stated in another place, these mains can be advantageously extended to form a portion of a high pressure fire-pipe line. I also recommend that a 12-inch main be laid in Broadway over the B. & M. R. R. at North Somerville to carry a supply easterly from the

48-inch Metropolitan main near that point ; also that a 20-inch main be laid in Broadway westerly from Willow avenue, for the purpose of giving to that district the benefit of the connection with the Metropolitan main.

Now that we have a large connection with the Metropolitan main in Webster avenue, it would, in my judgment, be wise to extend a line of 16-inch pipe from the Webster avenue main through Glass House court into the packing-house district, and I recommend that this main be laid the coming season. Pipe should also be laid from Clark street through the new Lincoln Park before the roadway is completed, the contract date for which is July 1st.

SERVICE DEPARTMENT.

The service department of the works has made 205 new connections during the year, laying therefor 7,651 feet of pipe. One of the above services was transferred from the mains of the City of Cambridge to our own. The total number of service pipes laid to December 31, 1898, is 9,806, and the total length of pipe used in making the connections is 61 miles, 3,536 feet.

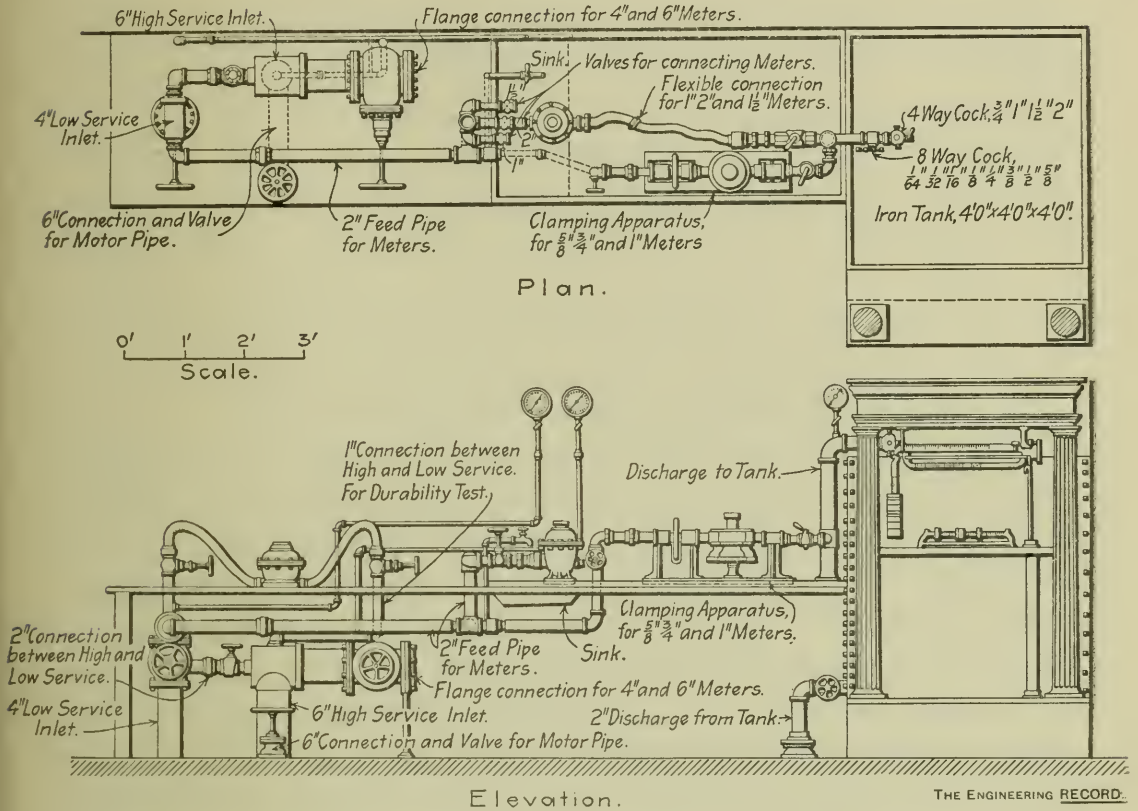
The usual amount of work has been required in the maintenance of the service system, repairing broken pipes, cleaning out sediment, lowering and raising boxes, etc.

METER DEPARTMENT.

The proposition made by the City of Boston for the disposition of their water meters in this city not having received your favorable consideration, they were all removed by this department early in the year and new meters were set in their places. A number of requests have been made by consumers to take water by meter instead of on annual rates, but in accordance with your policy, meters have not been generally set except for manufacturing or business purposes, or where schedule rates could not readily be assessed.

The efficiency of the meter-testing plant constructed last year has been thoroughly demonstrated, and it has proved a valuable adjunct to the work of the department. The following

cut of the apparatus used is from the "Engineering Record" of October 8, which contains a description of the plant.



Meters are read monthly and billed quarterly. Other tables in connection with this report will give the revenue accruing from metered water and the class of premises on which meters are used.

The number of meters belonging to the City of Boston which were removed is	138
Number set in place thereof	134
Operating meters added during the year	12
Meters removed during the year	3
Total number of meters in operation Dec. 31, 1898	143
Motor and Elevator Clocks in operation Dec. 31, 1898	7
Number of meters added to commence Jan. 1, 1899	51
Total number meters set	194

METERS IN USE DECEMBER 31, 1898.

	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{2}$ "	2"	3"	4"	6"	Total
Crown	5	6	5	1	2	1	1	1	22
Gem							1		1
Hersey			10	1	3	3			17
Hersey Disc	1		10	1	3				15
Trident	11	19	16	5	4	1	2		58
Union		10	10	2	5	1	2		30
Totals	17	35	51	10	17	6	6	1	143

HYDRANTS, GATES, BLOW-OFFS, ETC.

The fire hydrants have been carefully inspected, imperfect ones replaced, necessary small repairs made, and their efficiency well maintained. The city has been divided into districts and competent men have been entrusted with the duty of examining monthly each hydrant in their respective districts, so as to reduce to a minimum the liability of their being out of order when most wanted. In connection with this duty, also, the men are instructed to watch sharply for protruding service boxes and main gate boxes, and to see that they are brought to the proper grade, thereby obviating the danger of accidental tripping over them.

Notwithstanding a city ordinance and department regulations, it has been a long-standing custom for the fire hydrants to be used for other than fire and water department purposes. Efforts have been made to regulate the use of the fire hydrants for these outside purposes, but without success. It may seem a hardship to deprive those who have been accustomed to use them of the privilege which they have so long enjoyed, but if, in your judgment, this freedom shall be continued, your superintendent should be relieved of the responsibility of any hydrants found in a damaged condition when they are needed for their legitimate fire purposes.

The gates of the water system are in good condition. Two 12-inch check valves have been set between the low and high-service systems; one in Broadway, opposite Temple street,

and one in Holland street, opposite Gorham street. These valves are expected to open automatically in case the high service becomes disabled or cut off, and to allow the low pressure water to enter the mains, thus keeping the districts supplied; they have already demonstrated their usefulness. One 14-inch valve has been set on the line of our force main in Broadway, opposite Cedar street, by the Metropolitan Water Works and at their expense. An additional 8-inch connection has been made with the Metropolitan Water Works 30-inch supply main in Gilman square.

Two new water-posts have been set for the convenience of the street-watering department—one on Broadway, near Willow avenue, and one on School street, opposite the Cummings school. The post on Highland avenue, near Willow avenue, has been moved to Grove street, near Highland avenue; the post opposite No. 241 Highland avenue has been moved to a point opposite Crocker street, and the post on Broadway, corner of Melvin street, has been moved to the opposite side of the street on the park grounds.

It has been my policy to set these necessary structures, so far as the convenience of the watering carts will allow, abutting on public property, thereby removing the objections advanced by those who consider them unsightly and in the nature of a nuisance in front of private houses. One water-post was set on Wheatland street for the Metropolitan Park Commission at their expense.

Nineteen blow-offs have been constructed during the year. Fourteen of these have been placed on the dead ends of pipes and answer the useful purpose of clearing out the sediment which accumulates in such localities, and also of flushing the sewers. In my opinion, every water main in the city which cannot be made a portion of the direct circulating system, should be provided with a blow-off pipe, and I recommend that the number be largely increased the coming year.

The net increase in the number of fire hydrants during the year is 42; in main gates, 64; in water-posts, 3; in blow-offs, 19; check-valves, 2.

A relocation of all hydrants and water-posts has been made, from which it appears that 10 public hydrants should be

deducted from the lists previously published; 1 private hydrant and 1 water-post should be added. The following table is believed to be correct :—

Total number of public hydrants in the city	822
Total number of private hydrants in the city	41
Total number of gates	1,033
Total number of check-valves	2
Total number of water-posts	57
Total number of blow-offs	52

HIGH SERVICE.

The high service has been operated in an economical and satisfactory manner. During the year the pump has run 3,186 hours and 287,760,000 gallons of water have been pumped into the system. In December the Metropolitan Water Works made connection between their 16-inch delivery main and our force main in Broadway, opposite Cedar street, as a part of the general scheme of eventually supplying our high-service territory from the new Metropolitan reservoir in the Middlesex Fells. Until the completion of that reservoir, the Northern high-service district is to be supplied by the combined pumping of the several stations included therein, of which ours is one.

Advantage has been taken of these conditions to give the high-water service to the College Hill and Clarendon Hill sections of the city, by making a connection with the Metropolitan main at the corner of Boston avenue and Professors' row. This will give an immediate increase in the water pressure of about 30 pounds per square inch in the district thus supplied, and this pressure will be still further increased when the system reaches completion.

The elevation of the new Fells reservoir will be sufficient to give an average static pressure of about 100 pounds per square inch at the hydrants in the principal squares and business districts in the city, and I would recommend that during the coming season, lines of pipe for fire hydrant service be laid in the following streets, viz.: in Bow street and Washington street, from Summer street to Bonner avenue, connecting thereto

the fire hydrants in Bow street and Union square; in Medford street and Pearl street, connecting the hydrants in Gilman square and vicinity; in Holland street and Elm street, connecting with the hydrants in Davis square and vicinity; and in Broadway, from Temple street to Walnut street, connecting thereto the hydrants in that business district. An auxiliary fire-pipe line might also be extended through Medford street, from Washington street to the large packing houses, affording to their hydrant and sprinkler systems the advantage of a largely increased pressure. These pipes could easily be made a portion of a dual system, should it ever be considered advisable to establish one.

METROPOLITAN WATER.

On January 1st, 1898, the Mystic Lake water was shut off from our mains and the supply from the Metropolitan works was introduced. There is now in operation, one through line of 48-inch pipe from Chestnut Hill to Spot Pond, and another of the same size is operated as far as the Mystic reservoir on College Hill. We are at present receiving our supply from these mains through a 20-inch connection in Webster avenue and a 16-inch in Pearl street on the former line, and a 12-inch connection in Elm street on the latter line.

Branches have been provided for connections at other points when needed. The system has been in successful operation throughout the year, and water of excellent quality and abundant quantity has been furnished us. During the early part of the year some complaint was made of the oily or fishy taste of the water; inquiry at the office of the Metropolitan Water Board elicited the information that this was caused by the appearance of a harmless vegetable organism in the water which develops at times and cannot be foreseen or prevented. This disappeared in a short time and has since given no trouble.

The water is not at present so clear and colorless as that which came to us from the Mystic Lake, but is improving in that respect slowly; it is expected that when the new Wachusett reservoir is completed and the water has an opportunity to bleach, it will be very colorless and will show a favorable comparison with that obtained by any municipality.

The Nashua River was diverted into the Metropolitan system of water works on April 1st and has since been flowing through our streets and on tap in our houses; the quantity brought down being, on December 31st, approximately fourteen billion gallons, or nearly enough to supply this city alone for ten years at the present rate of consumption.

The following analysis of the water now furnished us and that formerly supplied by the Mystic system will be interesting, a comparison showing the greatly superior quality of the Metropolitan water for all domestic purposes.

ANALYSIS OF WATER MADE BY STATE BOARD OF HEALTH.
PARTS IN 100,000.

DATE OF EXAMINATION.	APPEARANCE.			ODOR.		RESIDUE ON EVAPORATION.			AMMONIA.			NITROGEN.			
	Turbidity.	Sediment.	Color.	Cold.	Hot.	Total.	Loss on Ignition.	Fixed.	Free.	Total.	In Solution.	In Suspension.	Chlorine.	Nitrates.	Nitrites.	Hardness.

METROPOLITAN WATER.

1899. February 2.	Very Slight.	Very Slight.	0.33	Very Faintly Vegetable.	Faintly Vegetable.	4.10	1.35	2.75	.0012	.0124	.0102	.0022	.28	.0200	.0001	1.4
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MYSTIC LAKE WATER.

1897. December 1.	Very Slight.	Slight.	0.12	Distinctly Vegetable.	Distinctly Vegetable.	12.80	2.25	10.55	.0436	.0218	.0172	.0046	1.57	.0630	.0005	5.3
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The sanitary analysis of water has for its object the determination of the amount, character, and condition of the organic matter and amount of mineral matter contained in solution and suspension in the water, for the purpose of ascertaining its fitness for potable purposes. In order to make the foregoing table more readily understood, the following explanation is given of the several determinations which are obtained in the chemical examination of surface water.

The general appearance of a water under examination is first observed for the character of its turbidity and the amount and nature of the sediment which it contains.

The color of water is due principally to organic matter produced from dissolving leaves and other vegetable matter, and is expressed by numbers which increase with the amount of color. The storage of water in large reservoirs for a long period of time has the effect of bleaching the water or eliminating from it a large amount of the coloring substances.

The odor of water varies at different seasons of the year and under different conditions. It is caused by infusoria and other micro-organisms, and is generally stronger when the water is heated.

Residue on evaporation is the solid matter, mineral and organic, remaining after evaporating water to dryness. By properly heating this residue the organic matter is burned off, the amount of which is indicated by the "loss on ignition." The fixed residue is the portion remaining after ignition and represents the amount of mineral matter in the water, being largely in the form of carbonates of lime, soda, etc.

Free ammonia is produced by the decomposition of organic matter. As ammonia in this form is one of the characteristic ingredients of sewage, its significance in a water analysis lies in the fact that its presence may indicate sewage pollution.

Albuminoid ammonia in suspension and in solution is derived generally from vegetable growths in the water, but may be of animal origin. It represents the nitrogenous elements of such matter before decomposition has begun.

Chlorine determinations express the amount of common salt in the water. Above a certain normal, which is, in the vicinity



WATER WORKS BUILDING — SOUTHERLY SIDE.

of Mystic Lake, about .35 part in 100,000, the presence of chlorine in surface waters is indicative of sewage pollution, and its excess may be considered a measure of such pollution.

Nitrogen is found in water in the form of nitrates and nitrites. The former is a combination of the completely oxidized form of the nitrogen of ammonia with alkalies or lime, and produces an excellent food which is readily absorbed by growing plants. In unpolluted water the nitrates are, therefore, always low and frequently entirely absent. High nitrates, in connection with nitrites or with free ammonia, indicate incomplete oxidization of organic matter.

Nitrites are formed by the combination of nitrous acid with a soda or other base. In unpolluted waters their presence is in very minute amounts. When the quantity is large, say .0005 part per 100,000, associated with high free ammonia, it is an evidence of considerable sewage pollution.

The hardness of water is expressed by numbers which indicate the degree of hardness shown in terms of an equivalent amount of carbonate of lime in parts per 100,000; the hardness increasing with the number.

An interpretation of the two analyses given herewith indicates a practical freedom from unsanitary conditions in the Metropolitan water, while the water from Mystic Lake shows a high degree of pollution.

BUILDINGS.

On the 28th of May a contract was awarded by you to Rufus E. Lord for the construction of a stable, wagon shed and workshop in connection with the pumping-station building on Cedar street, on plans furnished by Aaron H. Gould, architect, for the sum of \$10,173.00, exclusive of excavating, flooring, heating, plumbing, lighting and grading. The first earth was thrown out for the foundation on May 23rd, and the completed stable was occupied on October 15, the old building on Prospect street which had been used as headquarters for the department for twenty-one years, being abandoned and the keys turned over to the City Council on that date.

The new structure is a brick building, and consists of a stable of seven stalls, harness room, toilet room, closets and

office, connected with the pumping station, with commodious loft and sleeping room overhead. Adjoining this is a wagon shed, with wash-room opening out of the stable and a storage loft over the whole. At the extreme end of the wagon shed is a large storage room on the ground floor, and over this is the machine and carpenter shop of the department.

The stable, wash-room and work shop are heated by steam ; the entire building is lighted by electricity. Hot and cold water are in the harness, toilet, and wash-rooms, and a fire pipe with three hose attachments extends through the building.

The entire floor of the stable is composed of granolithic, and that of the wash-room is asphalt on a concrete base built on I beams. Under the wash-room is the manure pit, to which all the soil pipes lead so they can be readily cleaned, the stone floor of the stable proper being constructed on solid filling. The stall basins are constructed of granolithic, on original designs, and are very simple and cleanly, all iron work being dispensed with.

The building as a whole is of pleasing architecture, complete in all its appointments, and is a creditable addition to the public buildings of the city. A large amount of filling was needed to bring the surface up to the required grade ; the loam was stripped from the plot covered by the building, and has been used for a top dressing on the street side. The entire cost has been \$15,513.55, apportioned as follows :—

Building :—

Contract	\$10,173.00
Additions and alterations	775.36
Architect : plans and services	670.00
Floors and filling for same	767.43
Plumbing and heating	900.86
Electric wiring and fittings	184.09
Stable fittings	165.44
Sundry materials and expenses	122.02
	<hr/>
<i>Amount carried forward</i>	\$13,758.20

<i>Amount brought forward</i>	\$13,758.20	
Labor: Excavating, filling and grading	373.72	
Materials: Filling and grading grounds	1,381.63	
	<hr/>	\$15,513.55

I recommend that the open lot between the buildings and Cedar street be filled in as the opportunity offers, and that the grounds be graded and laid out in an ornamental manner.

The pumping station building is in good repair; the stand-pipe should be painted inside and outside as soon as conditions will permit. The grounds about the standpipe have been still further improved by setting out trees and shrubs, furnished by florist Howard, and by next summer should present a very attractive appearance.

For further details concerning the work of the department during the year, I ask your attention to the tables appended hereto.

I beg to acknowledge the continued courtesy which you have shown me in the performance of the manifold duties entrusted to me, and also to express my appreciation of the interest shown in the work by all the employes under my charge.

FRANK E. MERRILL,
Superintendent.

LOCATIONS OF NEW MAINS LAID, LENGTH AND SIZE, NUMBER OF GATES, HYDRANTS, ETC., SET IN 1898.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER-POSTS.
			Size.	No. feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Allston st.	Hydrant		6"	6				Mathews	1				
Arlington st.	Hydrant		6"	6				Holyoke	1				
Ashland st.	Gate		6"			1		B. M.	1				
Ashland st.	Hydrant		6"	4						4"			
Bedford st.	Blow-off		4"	25									
Belmont st.	Hydrants		6"	21				{ Mathews Holyoke	2 1				
Benton road	Con. with Westwood road	Con. with 8' pipe	{ 8" 6"	317 7				Holyoke	1				
Benton road	Hydrant		6"	8				Holyoke	1				
Bond st.	Hydrant		6"	20				Chapman	1				
Bowers ave.	Main in Cottage ave.	Dead end, near Elm st.	6"	204									
Broadway	Con. with Packard ave.	Con. with Paulina st.	12"	363									
Broadway	Hydrants		6"	19				{ Mathews Holyoke	2 1				
Broadway	Gates					2							
Broadway	Check valve		12"	102									
Broadway	Con. with Temple st.	Con. with 24" supply main	6"	8				Mathews	1				
Broadway	Hydrant		2"	35									
Broadway	Water-post		4"	200									
Broadway pk.	Chauncy ave.	Pond in park	4"	6									
Broadway pk.	Hydrant connection		6"										
Chester ave.	Gate		6"	1									
Columbia st.	Blow-off	Con. with Francis st.	4"	53						4"			
Conwell st.	Main in Highland ave.		6"	329									
Crescent st.	Blow-off		6"										
Cross st.	Main in Medford st.	Con. with Chester ave.	6"	308				Holyoke	2				
Cross st.	Gate		12"										
Cross st.	Blow-off		6"	12									
Curtis st.	Gates		{ 12" 6"										
Curtis st.	Hydrants		6"	32				{ Mathews Holyoke	2 1				

LOCATIONS OF NEW MAINS LAID, LENGTH AND SIZE, NUMBER OF GATES, HYDRANTS, ETC.—Continued.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER-POSTS.
			Size.	No. feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Dane ave.	Gate		6"	6	8"	1							
Dane ave.	Blow-off		6"	1	6"	1			6"	1			
Durham st.	Gate		6"	1	6"	1							
Durham st.	Hydrant		6"	20	6"	1	Holyoke	1					
Electric ave.	Main in Curtis st.	Dead end	6"	25	6"	1	Coffin	1					
Elmwood st.	Hydrant		6"	7	6"	1							
Fairlee st.	Gate		2"	200	6"	1							
Fairview terrace	Main in Sycamore st.	Dead end	2"	136	2"	1							
Florence terrace	Main in Jaques st.	Dead end	6"	84	6"	1							
Garfield ave.	Dead end	Easterly	6"	466	6"	1	B. M.	1					
Garrison ave.	Main in Broadway	Dead end	6"	356	6"	1							
George st.	Gate		6"	179	2"	1							
Gordonia road	Main in Highland ave.	Con. with old pipe	6"	12	6"	1	Holyoke	2					
Greenwood ter.	Main in Beacon st.	Dead end	6"	30	4"	1			4"	1			
Hanson st.	Hydrant		4"	10	6"	1							
Hanson st.	Gate		6"	7	6"	1	Mathews	1					
Harding st.	Blow-off		6"	32	6"	1	B. M.	1					
Hathorn st.	Gate		6"	16	6"	1	Mathews	1					
Highland ave.	Hydrant		4"	25	4"	1							
Hinckley st.	Hydrant		6"	250	6"	1	Mathews	1					
Holland st.	Hydrant		6"	32	6"	1	B. M.	1					
Holland st.	Blow-off		6"	16	6"	1							
Holland st.	Check valve		4"	25	4"	1							
Holland st.	Blow-off		6"	7	6"	1							
Hunting st.	Gate		6"	207	6"	1							
Jaques st.	Con. with Pearl st.	5' S. from S. line Virginia st.	8"	366	8"	1	Chapman	1					
Jasper st.	Hydrant		8"	7	8"	1	Mathews	1					
Josephine ave.	Con. with Liberty ave.	Con. with Richardson st.	8"	366	8"	1	B. M.	1					
Kidder ave.	Main in Hinckley st.	Con. with Dane ave.	8"	7	8"	1							
Lawrence st.	Main in Washington st.	Con. with Dane ave.	8"	250	8"	1	Chapman	1					
Leland st.	Con. with Francesca ave.	N. line Kidder ave.	8"	7	8"	1	Mathews	1					
Liberty ave.			6"	7	6"	1							

LOCATIONS OF NEW MAINS LAID, LENGTH AND SIZE, NUMBER OF GATES, HYDRANTS, ETC. — Continued.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER-POSTS.
			Size.	No. feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Linden circle	Main in Linden ave.	Dead end	2"	163	2"	1	Mathews	1					
Lowell st.	Hydrant	Dead end	6"	7	6"				6"	1			
Main st.	Con. with Fremont st.		2"	116	6"	1							
Medford st.	Blow-off		6"	8	8"	1							
Mt. Vernon ave.	Gate		6"	20									
Mt. Vernon st.	Hydrant		2"	4	2"	1	Holyoke	1	2"	1			
Murray st.	Blow-off		6"	20	6"								
Newbury st.	Hydrant		4"	15	4"	1	Mathews	1	4"	1			
Norfolk st.	Blow-off		{ 12"	69	12"	1							
North st.	Main in Broadway	Dead end	{ 6"	27	6"								
Oak st.	Blow-off		{ 4"	30	4"	1							
Packard ave.	Gate		10"	21	12"	1	Mathews	1					
Paulina st.	Con. with Broadway		6"	19	12"	1							
Pearl st.	Hydrant		{ 8"	28	8"	1							
Pearl st.	Con. with Marshall st.	Con. with 6" pipe	{ 12"	163	8"								
Professors' row	End of 8" pipe	Con. with Met. H. S. main, Boston ave.	{ 8"	15	8"								
School st.	Water-post		{ 2"	32	2"	1							1
Shawmut st.	Hydrant		6"	7	6"								
Shawmut pl.	Blow-off		6"	15	6"	1	Mathews	1	6"	1			
Somerville ave.	Blow-off		6"	16	6"	1							
Temple st.	Blow-off		8"	16	8"	1							
Temple st.	H. S. main in Broadway	H. S. main in Heath st.	{ 8"	439	8"	1	{ Holyoke	2					
Temple st.	Gates		{ 6"	92	6"		{ Mathews	2					
Thorndike st.	Hydrant		6"	7	12"	2	Mathews	1	12"				
Tremont st.	Blow-off		4"	15	4"	1	Holyoke	1	4"	1			
Victoria st.	Hydrant		6"	7	6"	1	Corey	1	6"	1			
Vine st.	Gate		6"	15	6"	1							
Vine st.	Hydrant		6"	15	6"	1							

LOCATIONS OF NEW MAINS LAID, LENGTH AND SIZE, NUMBER OF GATES, HYDRANTS, ETC. — *Concluded.*

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER-POSTS.
			Size.	No. feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Virginia st.	Con. with Jasper st.		6"	33	6"	1	Holyoke	1					
Waldo st.	Main in Highland ave.	Con. with old pipe	6"	126	6"	2							
Watson st.	Main in Broadway	Main in Fairmount ave.	6"	313	6"	2							
Webster ave.	Blow-off		6"	13	6"	1	B. M.	1	6"	1			
Wesley pk.	Hydrant	Con. with 4" pipe in Wheeler st.	6"	6	6"								
Wheeler st.	Con. with Mt. Vernon st.		6"	34	6"								
Willow pl.	Blow-off		4"	20	4"	1			4"	1			
Wilson ave.	Blow-off		4"	10	4"	1			4"	1			
Windsor road	Main in Willow ave.	Main in Gordonia road	6"	632	6"	2	Mathews B. M.	1 1					
Winthrop ave.	Hydrant		6"	6	6"	1							
Winthrop ave.	Gate												
				7,536		66				19			2

LOCATION AND LENGTH OF PIPES RELAID, GATES AND HYDRANTS RESET, 1898. — *Continued.*

NAME OF STREET.	FROM	TO	PIPE LAID.			GATES.				HYDRANTS.					
			Aband.	Size.	Relaid.	Length.	Aband.		Reset.		Aband.		Reset.		
							No.	Size.	No.	Size.	Kind.	No.	Kind.	No.	
Farm lane	Con. with Broadway		6"	30	8"			1	8"						
Florence st.	Con. with Pearl st.		4"	19	6"			1	6"						
George st.	S. line Broadway		3"	295	6"										
Gorham st.	Con. with Holland st.	Con. with Lincoln ave.	6"	16	8"										
Hanson st.	Con. with Durham st.	Main in Vine st.	4"	573	6"			1	6"						
Hanson st.	Hydrant connection		4"	5	6"										
Hathorn st.	Con. with Arlington st.		4"	13	6"										
Heath st.	Con. with Temple st.		6"	15	8"										
Heath st.	Hydrant connection		6"	20	6"										
Hinckley st.	Main in Broadway	Con. with Lawrence st.	6"	371	8"			1	8"						
Holland st.	Con. with Winter st.	Main in Broadway	10"	2,360	12"			4	12"						
Holland st.	Hydrant connection		6"	74	6"										
Irving st.	Con. with Holland st.		8"	5	8"										
Jaques st.	W. line Temple st.	Con. with iron pipe	4"	529	6"			1	6"						
Jay st.	Con. with Holland st.		6"	25	6"										
Lincoln ave.	End 6" pipe near Lincoln st.														
Lincoln ave.	Hydrant connection	Con. with Mt. Vernon st.	4"	426	6"			1	6"						
Mt. Vernon st.	N. line Washington st.	Main in Perkins st.	4"	4	6"										
Mt. Vernon st.	Hydrant connection		4"	1,075	10"			2	10"						
Myrtle st.	Con. with Pearl st.		4"	9	6"										
Newbury st.	Con. with Holland st.		6"	50	8"			1	8"						
Packard ave.	Con. with Professors' row		6"	25	8"			1	8"						
Paulina st.	Con. with Holland st.	Northerly	12"	22	12"										
Pearl st.	Con. with Crescent st.	Con. with Myrtle st.	6"	42	10"										
Pearl st.	Hydrant connection		8"	754	12"			1	12"						
School st.	Con. with Medford st.		4"	326	6"			1	6"						
Shawmut st.	Con. with L. S. main, Cross st.	18' S. from N. line Washington st.	4"	7	6"										
			6"	14	6"										
			4"-8"	640	8"			1	8"						

{ B. M. Coffin }
 { Chapman }
 { Mathews }
 { Coffin }
 { Chapman }

LOCATION AND LENGTH OF PIPES RELAID, GATES AND HYDRANTS RESET, 1898. — Concluded.

NAME OF STREET.	FROM	TO	PIPE LAID.			GATES.				HYDRANTS.			
			Aband.	Size.	Relaid.	Length.	Aband.		Reset.		Aband.	Reset.	
							No.	Size.	No.	Size.			
Shawmut pl.	Main in Shawmut st.	Main in Alliston st.	4"	6"	6"	214	1	6"	1	Kind.	Kind.	No.	
Temple st.	Main in Broadway	Con. with iron pipe	8"	12"	12"	1,349	1	12"	1	Mathews	Mathews	1	
Temple st.	Hydrant connection		6"	6"	6"	16							
Thordike st.	Con. with Holland st.		6"	6"	6"	25							
Vine st.	N. line Beacon st.	Dead end at F. R. R.	6"	8"	8"	660	2	8"	2	Chapman	Chapman	1	
Vine st.	Hydrant connection		6"	10"	10"	15							
Wallace st.	Con. with Holland st.		8"	8"	8"	3							
Walnut st.	N. line Pearl st.	S. line Bonair st.	6"	12"	12"	740				B. M.	B. M.	1	
Walnut st.	Hydrant connection		6"	6"	6"	7							
Winter st.	Con. with Holland st.		6"	6"	6"	5							
Winthrop ave.	Con. with Broadway		1 1/4"	8"	8"	125							
				6"	6"	6							
						22,643	39		37			23	18



BUILDING USED BY WATER DEPARTMENT FROM 1875 TO 1898. PROSPECT STREET, COR. SOMERVILLE AVENUE.

Building erected in Central Square in 1836, for Prospect Hill Primary and Grammar Schoolhouse. Abandoned for school purposes in 1861, and moved to its present location.

Converted into trial justice court-room and a tenement in 1861 and continued as such until 1871. Used as police station and lockup from 1871 to 1875. Occupied by the Water Department from 1875 to 1898. New headquarters of the Veteran Fireman's Association.

HYDRANTS — CONSTRUCTION ACCOUNT.

- New hydrants have been set in the following locations : —
- Allston street, 212 feet south from Cross street, 6-inch Mathews.
- Arlington street, 36 feet from Hathorn street, 6-inch Holyoke.
- Ashland street, 268 feet south from Summer street, 4-inch Boston Machine.
- Belmont street, opposite Pitman street, 6-inch Mathews.
- Belmont street, 10 feet north from Belmont place, 6-inch Mathews.
- Belmont street, 243 feet south from Summer street, 6-inch Holyoke.
- Benton road, corner of Cambria street, 6-inch Holyoke.
- Benton road, 28 feet south from Highland avenue, 6-inch Chapman.
- Bond street, 205 feet north from Heath street, 6-inch Chapman.
- Broadway, 32 feet east from Westminster street, 6-inch Mathews.
- Broadway, opposite Watson street, 6-inch Mathews.
- Broadway, 138 feet west from Waterhouse street, 6-inch Holyoke.
- Broadway, 115 feet west from Rogers avenue, 6-inch Mathews.
- Conwell street, 6 feet south from Highland avenue, 6-inch Holyoke.
- Conwell street, 3 feet north from Francis street, 6-inch Holyoke.
- Curtis street, 24 feet south from Professors' row, 6-inch Mathews.
- Curtis street, 3 feet south from Electric avenue, 6-inch Mathews.
- Curtis street, 6 feet north from Broadway, 6-inch Holyoke.
- Durham street, opposite Skehan street, 6-inch Holyoke.
- Elmwood street, 9 feet south from Holland street, 6-inch Coffin.
- Garrison avenue, 235 feet south from Broadway, 4-inch Boston Machine.
- Hanson street, 12 feet south from Village street, 6-inch Holyoke.
- Hanson street, 6 feet south from Skehan street, 6-inch Holyoke.
- Highland avenue, 214 feet east from Spring Hill terrace, 6-inch Mathews.
- Hinckley street, 106 feet south from Broadway, 4-inch Boston Machine.

Holland street, 3 feet south from Paulina street, 6-inch Mathews.
 Jasper street, 5 feet south from Virginia street, 6-inch Mathews.
 Josephine avenue, 397 feet north from Morrison street, 4-inch
 Boston Machine.

Leland street, 14 feet south from Dane avenue, 6-inch Chapman.
 Liberty avenue, 3 feet north from Kidder avenue, 6-inch
 Mathews.

Lowell street, 163 feet south from Highland avenue, 6-inch
 Mathews.

Mt. Vernon street, 246 feet north from Washington street,
 6-inch Holyoke.

Newbury street, 15 feet south from Holland street, 6-inch
 Mathews.

North street, 18 feet north from Broadway, 6-inch Mathews.

Pearl street, 50 feet west from Crescent street, 6-inch Mathews.

Shawmut street, 153 feet north from Shawmut place, 6-inch
 Mathews.

Temple street, 124 feet south from Sewall street, 6-inch Holyoke.

Temple street, 5 feet south from Sydney street, 6-inch Holyoke.

Temple street, corner of Broadway, 6-inch Mathews.

Temple street, 10 feet south from Derby street, 6-inch Mathews.

Thorndike street, 4 feet south from Holland street, 6-inch
 Mathews.

Victoria street, 255 feet south from Broadway, 6-inch Holyoke.

Vine street, 15 feet east from Beacon street, 6-inch Corey.

Waldo street, 6 feet north from Highland avenue, 6-inch
 Holyoke.

Wesley park, 145 feet north from Bow street, 4-inch Boston
 Machine.

Windsor road, 86 feet east from Willow avenue, 6-inch Mathews.

Winthrop avenue, 6 feet north from Broadway, 4-inch Boston
 Machine.

HYDRANTS. — RENEWAL ACCOUNT.

The following changes have been made in the kind and
 location of hydrants : —

Belmont street, 4-inch B. M. hydrant, set 421 feet south from
 Belmont place, and 4-inch B. M. hydrant removed from
 430 feet south from Belmont place.

- Broadway, 6-inch Mathews hydrant, set opposite Temple street, and 4-inch Holyoke hydrant removed from opposite Marshall street.
- Broadway, 4-inch B. M. hydrant, set 20 feet west from Farm lane, and 4-inch B. M. hydrant removed from 118 feet west from Farm lane.
- Broadway, 6-inch Holyoke hydrant, set 237 feet east from Endicott avenue, and 4-inch B. M. hydrant removed from 174 feet east from Endicott avenue.
- Broadway, 6-inch Holyoke hydrant, set 9 feet west from Garrison avenue, and 4-inch B. M. hydrant removed from 9 feet west from Victoria street.
- Broadway, 6-inch Mathews hydrant, set 330 feet west from Waterhouse street, and 4-inch B. M. hydrant removed from same location.
- Crescent street, 4-inch B. M. hydrant, set 80 feet south from Hadley place, and 4-inch B. M. hydrant removed from opposite Hadley place.
- Curtis street, 4-inch B. M. hydrant, set 44 feet north from house No. 54, and 4-inch B. M. hydrant removed from 64 feet north from Electric avenue.
- Curtis street, 6-inch Holyoke hydrant, set 6 feet south from Raymond avenue, and 4-inch B. M. hydrant removed from opposite Raymond avenue.
- Dane avenue, 4-inch B. M. hydrant, set 162 feet west from Leland street, and 4-inch B. M. hydrant removed from 81 feet west from Leland street.
- Durham street, 4-inch Bigelow hydrant, set 5 feet west from Hanson street, and 4-inch Bigelow hydrant removed from 50 feet west from Hanson street.
- Hanson street, 4-inch Holyoke hydrant, set 9 feet south from Nevada avenue, and 4-inch Holyoke hydrant removed from 38 feet north from Skehan street.
- Holland street, 6-inch Coffin hydrant, set 8 feet north from B. & M. R. R. crossing, and 6-inch Chapman hydrant removed from 170 feet south from Wallace street.
- Holland street, 6-inch Mathews hydrant, set 5 feet south from Jay street, and 4-inch B. M. hydrant removed from 78 feet south from Newbury street.

Holland street, 6-inch Mathews hydrant, set 94 feet south from Claremon street, and 4-inch B. M. hydrant removed from 115 feet south from Claremon street.

Temple street, 6-inch Mathews hydrant, set 10 feet north from Jaques street, and 6-inch Mathews hydrant removed from 50 feet north from Jaques street.

Vine street, 6-inch Chapman hydrant, set opposite Eliot street, and 6-inch Chapman hydrant removed from 173 feet east from Beacon street.

Walnut street, 6-inch B. M. hydrant, set opposite Veazie street, and 6-inch B. M. hydrant removed from 30 feet south from Veazie street.

Broadway, 4-inch B. M. hydrant, removed from 11 feet west from Norwood avenue.

Heath street, 6-inch Chapman hydrant, removed from corner of Bond street.

Heath street, 6-inch Chapman hydrant, removed from 50 feet west from Temple street.

Holland street, 6-inch Coffin hydrant, removed from 89 feet north from Thorndike street.

Holland street, 6-inch Coffin hydrant, removed from 82 feet south from Elmwood street.

All hydrants have been thoroughly inspected and necessary repairs made. All have been painted and are now in excellent condition. Expense of maintenance and repairs of hydrants, for inspection, labor and materials used in repairs, teaming, painting, etc., has been \$689.33.

RECAPITULATION.

Number of public hydrants set in 1898	65	
“ “ private “ “ “ “	0	
	<hr/>	
Total number of hydrants set in 1898		65
Number of hydrants removed in 1898		23
Net increase in number of public hydrants, 1898	42	
“ “ “ “ “ private “ “	0	
	<hr/>	
Total net increase in number of hydrants, 1898		42
Total number of public hydrants in the city	822	
“ “ “ private “ “ “ “	41	
	<hr/>	
Total number of all hydrants in the city, January 1, 1899		863

LOCATION OF HYDRANTS.

- Adams street, 11 feet south from Broadway.
Adams street, 221 feet south from Broadway.
Adams street, 266 feet north from Medford street.
Adams street, 10 feet north from Medford street.
Adrian street, 106 feet east from Marion street.
Adrian street, 220 feet south from Joseph street.
Allen street, 9 feet north from Charlestown street.
Albion street, 74 feet west from Centre street.
Albion street, 396 feet west from Central street.
Albion street, 217 feet east from Lowell street.
Albion street, 421 feet east from Cedar street.
Aldersey street, 276 feet west from Walnut street.
Alpine street, 280 feet east from Cedar street.
Alpine street, 76 feet west from Princeton street.
Alpine street, 298 feet west from Lowell street.
Allston street, 212 feet east from Cross street.
Allston street, 10 feet west from Shawmut place.
Ames street, 123 feet west from Central street.
Appleton street, 3 feet east from Clifton street.
Appleton street, 41 feet west from Willow avenue.
Arlington street, 36 feet east from Hathorn street.
Arthur street, 29 feet south from Broadway.
Ash avenue, 300 feet north from Meacham street.
Ashland street, 268 feet south from Summer street.
Auburn avenue, 239 feet west from Cross street.
Auburn avenue, 481 feet west from Cross street.
Austin street, 81 feet south from Mystic avenue.
Austin street, 66 feet north from Benedict street.
Austin street, 2 feet north from Broadway.
Avon street, 233 feet east from Central street.
Avon street, 572 feet west from School street.
Banks street, 310 feet south from Summer street.
Bartlett street, 230 feet south from Broadway.
Bartlett street, 15 feet south from Ames street.
Bartlett street, 10 feet south from Robinson street.
Beacon street, 316 feet west from Greenwood terrace.

- Beacon street, 10 feet east from Stanford terrace.
Beacon street, 46 feet west from Sacramento street.
Beacon street, 15 feet west from Kent street.
Beacon street, 4 feet west from Ivaloo street.
Beacon street, 68 feet east from Park street.
Beacon street, 18 feet east from Durham street.
Beacon street, 26 feet east from Washington street.
Beacon street, 90 feet east from Calvin street.
Beacon street, 194 feet east from Calvin street.
Beacon street, 28 feet west from Buckingham street.
Beacon street, 208 feet east from Buckingham street.
Beacon street, 6 feet east from Concord avenue.
Beech street, 4 feet south from Atherton street.
Beech street, 31 feet east from Spring street.
Belmont street, 206 feet north from Spring Hill terrace.
Belmont street, 241 feet north from Summer street.
Belmont street, 243 feet south from Summer street.
Belmont street, 10 feet north from Belmont place.
Belmont street, 222 feet south from Belmont place.
Belmont street, 185 feet north from Somerville avenue.
Benedict street, 33 feet east from Mystic street.
Bennett street, 166 feet east from Prospect street.
Benton road, 2 feet north from Cambria street.
Benton road, 28 feet south from Highland avenue.
Berkeley street, 8 feet east from Central street.
Berkeley street, 150 feet east from Hersey street.
Berkeley street, 28 feet west from School street.
Berkeley street, 212 feet west from Hersey street.
Billingham street, 126 feet north from William street.
Bolton street, 203 feet north from Houghton street.
Bolton street, 3 feet south from Oak street.
Bonair street, 26 feet west from Cross street.
Bonair street, 90 feet east from Autumn street.
Bonair street, 121 feet east from Arthur street.
Bonair street, 67 feet east from Dana street.
Bonair street, opposite Melvin street.
Bonair street, 117 feet east from Walnut street.
Bond street, 63 feet south from Jaques street.

- Bonner avenue, 171 feet north from Washington street.
Boston avenue, 110 feet south from bridge over Mystic river.
Boston avenue, 492 feet north from Gove street.
Boston street, 207 feet west from Bigelow street.
Boston street, 87 feet east from Bigelow street.
Boston street, 6 feet north from High street.
Bow street, 83 feet east from Walnut street.
Bow street, 23 feet west from Wesley park.
Bow street, 25 feet east from Bow street place.
Bowdoin street, 65 feet north from Fremont avenue.
Bradley street, 26 feet south from Veazie street.
Brastow avenue, 202 feet east from Porter street.
Brastow avenue, 115 feet west from Lowell street.
Broadway, 50 feet east from Mt. Pleasant street.
Broadway, 20 feet west from George street.
Broadway, 21 feet west from Broadway place.
Broadway, 83 feet east from Cutter street.
Broadway, 7 feet east from Glen street.
Broadway, 21 feet east from Rush street.
Broadway, 15 feet west from Cross street.
Broadway, 7 feet west from Autumn street.
Broadway, 6 feet west from Montgomery avenue.
Broadway, 33 feet west from Walnut street.
Broadway, 4 feet east from Sargent avenue.
Broadway, 3 feet west from Melvin street.
Broadway, 157 feet west from Grant street.
Broadway, 117 feet east from Marshall street.
Broadway, 62 feet west from Marshall street.
Broadway, 3 feet west from School street.
Broadway, corner Thurston street.
Broadway, 209 feet east from Central street.
Broadway, 104 feet west from Norwood avenue.
Broadway, 20 feet west from Farm lane.
Broadway, 288 feet east from Cedar street.
Broadway, opposite Cedar street.
Broadway, 171 feet west from Wilson avenue.
Broadway, 115 feet west from Rogers avenue.

Broadway, 236 feet west from Liberty avenue.
Broadway, 175 feet west from Elm street.
Broadway, 6 feet west from Billingham street.
Broadway, 9 feet west from Packard avenue.
Broadway, 32 feet east from Westminster street.
Broadway, 237 feet east from Endicott avenue.
Broadway, 6 feet west from Endicott avenue.
Broadway, 9 feet west from Garrison avenue.
Broadway, 138 feet west from Waterhouse street.
Broadway, 330 feet west from Waterhouse street.
Broadway park, near the pond.
Brook street, 18 feet west from Rush street.
Browning road, 302 feet west from Sycamore street.
Browning road, 136 feet east from Central street.
Buckingham street, 2 feet south from Dimick street.
Burnside avenue, 259 feet north from Elm street.
Burnside avenue, 120 feet south from Summer street.
Cameron avenue, 166 feet south from Holland street.
Cameron avenue, opposite Mead street.
Cameron avenue, 26 feet south from Glendale avenue.
Campbell park, 258 feet west from Meacham street.
Cedar street, 226 feet south from Sartwell avenue.
Cedar street, 98 feet north from Sartwell avenue.
Cedar street, 61 feet north from Hall street.
Cedar street, 12 feet north from Highland avenue.
Cedar street, 10 feet north from Albion street.
Cedar street, 124 feet south from Warwick street.
Cedar street, 50 feet north from Clyde street.
Cedar street, 24 feet south from Murdock street.
Cedar street, 270 feet south from Broadway.
Central street, 50 feet south from Broadway.
Central street, 6 feet north from Forster street.
Central street, 9 feet north from Vernon street.
Central street, 187 feet south from Vernon street.
Central street, 6 feet north from Albion street.
Central street, 1 foot south from Summer street.
Chandler street, 16 feet south from Broadway.
Chandler street, 206 feet north from Park avenue.

Charles street, 183 feet south from Washington street.
Charnwood road, 79 feet west from Gordonia road.
Chauncey avenue, 8 feet north from Jaques street.
Cherry street, 7 feet south from Sartwell avenue.
Cherry street, 254 feet north from Sartwell avenue.
Cherry street, 252 feet north from Summer street.
Cherry street, 26 feet south from Highland avenue.
Chester street, 15 feet north from Chester place.
Chestnut street, 482 feet south from Poplar street.
Chestnut street, 246 feet south from Poplar street.
Church street, 9 feet south from Summer street.
Church street, 300 feet south from Summer street.
Church street, 29 feet north from Somerville avenue.
Church street, 16 feet south from Somerville avenue.
City stables, east end of yard.
Claremon street, 255 feet south from Holland street.
Clarendon avenue, 253 feet south from Broadway.
Clarendon avenue, opposite house No. 66.
Clark street, 200 feet west from Newton street.
Clark street, 416 feet west from Newton street.
Clyde street, 250 feet east from Cedar street.
Clyde street, opposite Murdock street.
Columbia street, 3 feet south from Beach avenue.
Columbia street, 8 feet south from Columbia court.
College avenue, 700 feet north from Broadway.
Columbus avenue, 150 feet east from Bonner avenue.
Columbus avenue, 118 feet west from Bonner avenue.
Columbus avenue, 35 feet west from Stone avenue.
Columbus avenue, 8 feet east from Walnut street.
Concord avenue, 154 feet west from Prospect street.
Concord avenue, 76 feet east from Concord square.
Concord avenue, on east line of Knapp school.
Concord avenue, 313 feet east from Springfield street.
Concord avenue, 24 feet east from Springfield street.
Concord avenue, 7 feet east from Marion street.
Concord avenue 6 feet south from Hammond street.
Concord avenue, 20 feet east from Wyatt street.
Conwell avenue, 460 feet west from Curtis street.

Conwell street, 6 feet south from Highland avenue.
Conwell street, 3 feet north from Francis street.
Cook street, 74 feet north from Wyatt street.
Cottage avenue, 206 feet west from Russell street.
Craigie street, 216 feet south from Summer street.
Craigie street, 232 feet north from Kimball street.
Craigie street, 77 feet south from Kimball street.
Craigie street, 126 feet north from Somerville avenue.
Crescent street, 80 feet south from Hadley place.
Crocker street, 4 feet south from Highland avenue.
Crocker street, north corner Crown street.
Cross street, north corner Otis street.
Cross street, 6 feet north from Pearl street.
Cross street, 32 feet north from Cross Street place.
Cross street, 62 feet north from Flint street.
Cross street, 16 feet north from Gilman street.
Cross street, 13 feet south from Auburn avenue.
Cross street, 39 feet north from Allston street.
Curtis street, 6 feet north from Broadway.
Curtis street, 3 feet south from Electric avenue.
Curtis street, 137 feet north from Ware street.
Curtis street, 3 feet south from Raymond avenue.
Curtis street, 34 feet south from Professors' row.
Curtis street, 183 feet north from Professors' row.
Cutter avenue, 11 feet south from Highland avenue.
Cutter square, 95 feet west from Cutter avenue.
Cutter street, 444 feet south from Broadway.
Dane avenue, 162 feet west from Leland street.
Dane avenue, 169 feet east from Dane street.
Dane street, 9 feet north from Tyler street.
Dane street, 260 feet south from Skehan street.
Dane street, 55 feet north from Skehan street.
Dartmouth street, 288 feet south from Broadway.
Dartmouth street, 53 feet south from Evergreen avenue.
Dartmouth street, 171 feet north from Medford street.
Day street, 10 feet south from Elm street.
Day street, 195 feet south from Herbert street.
Day street, 4 feet north from Orchard street.

- Dell street, 255 feet west from Glen street.
Delaware street, 246 feet east from Aldrich street.
Derby street, 400 feet east from Temple street.
Dickinson street, 20 feet east from Beacon street.
Dover street, 203 feet south from Elm street.
Dover street, 312 feet north from Orchard street.
Dover street, 3 feet north from Orchard street.
Durham street, opposite Skehan street.
Durham street, 5 feet west from Hanson street.
Edmands street, 15 feet south from Broadway.
Ellsworth street, 7 feet west from Rush street.
Elm street, 59 feet west from Craigie street.
Elm street, 17 feet west from Porter street.
Elm street, 28 feet east from Linden avenue.
Elm street, 11 feet east from Mossland street.
Elm street, 9 feet west from Cedar street.
Elm street, 153 feet east from Cherry street.
Elm street, 110 feet west from Cherry street.
Elm street, 14 feet east from Burnside avenue.
Elm street, 104 feet east from Willow avenue.
Elm street, 20 feet east from St. James avenue.
Elm street, 9 feet west from Elston street.
Elm street, 90 feet west from Windom street.
Elm street, 25 feet west from Russell street.
Elm street, 11 feet west from Grove street.
Elm street, 82 feet west from Chester street.
Elm street, 12 feet north from Winter street.
Elm street, 6 feet south from Morrison street.
Elm street, 53 feet west from Francesca avenue.
Elm street, opposite Kenwood street.
Elm street, 100 feet west from Broadway.
Elmwood street, 9 feet south from Holland street.
Elmwood street, 300 feet north from Harrison street.
Eliot street, 3 feet east from Park street.
Endicott avenue, 422 feet south from Broadway.
Evergreen avenue, 8 feet east from School street.
Everett avenue, 5 feet west from Cross street.
Everett avenue, 9 feet east from Dana street.

Everett avenue, 449 feet west from Cross street.
Everett street, opposite Emerson street.
Fairlee street, 134 feet west from Cherry street.
Fairmount avenue, opposite Watson street.
Farragut avenue, 258 feet south from Broadway.
Farragut avenue, 537 feet south from Broadway.
Fenwick street, 40 feet north from Broadway.
Fiske avenue, 120 feet east from Hinckley street.
Fitchburg street, 395 feet east from Linwood street.
Flint street, 18 feet east from Flint avenue.
Flint street, 59 feet east from Cross street.
Flint street, 30 feet west from Franklin street.
Florence street, 206 feet south from Perkins street.
Florence street, 7 feet south from Pearl street.
Florence street, 453 feet north from Washington street.
Forster street, opposite Tennyson street.
Fosket street, 6 feet west from Bay State avenue.
Francesca avenue, 305 feet east from Elm street.
Francesca avenue, 7 feet west from Liberty avenue.
Franklin street, 14 feet north from Arlington street.
Franklin street, 76 feet south from Webster street.
Franklin street, 156 feet south from Pearl street.
Franklin street, 80 feet south from Oliver street.
Franklin street, 87 feet south from Palmer avenue.
Franklin street, 29 feet north from Washington street.
Fremont street, 82 feet north from Main street.
Fremont street, 343 feet north from Main street.
Fremont street, 287 feet north from Meacham street.
Fremont street, 25 feet north from E. Albion street.
Frost avenue, 75 feet east from Sherman street.
Fountain avenue, 280 feet west from Glen street.
Garden court, 357 feet south from Somerville avenue.
Garfield avenue, 24 feet south from Mystic avenue.
Garrison avenue, 235 feet south from Broadway.
Gibbens street, 202 feet west from Central street.
Gibbens street, 129 feet west from Benton avenue.
Gilman square, opposite Marshall street.
Gilman street, 103 feet east from Walnut street.

Gilman street, 143 feet east from Jasper street.
Gilman street, 8 feet west from Aldrich street.
Gilman street, 176 feet east from Aldrich street.
Gilman street, 295 feet west from Cross street.
Glen street, 147 feet south from Broadway.
Glen street, 8 feet north from Brook street.
Glen street, 6 feet north from Webster street.
Glen street, 1 foot north from Flint street.
Glen street, 11 feet north from Fountain avenue.
Gorham street, 310 feet south from Holland street.
Gorham street, 67 feet north from Howard street.
Grand View avenue, 286 feet east from Vinal avenue.
Grant street, 2 feet north from Derby street.
Greene street, 295 feet south from Summer street.
Greenville street, 148 feet north from Boston street.
Greenville street, 33 feet north from High street.
Hall avenue, 310 feet east from Elm street.
Hall avenue, 306 feet west from Liberty avenue.
Hall avenue, 9 feet west from Liberty avenue.
Hamlet street, 321 feet south from Highland avenue.
Hammond street, 30 feet west from Dickinson street.
Hancock street, 258 feet south from Summer street.
Hanson street, 12 feet south from Village street.
Hanson street, 9 feet south from Nevada avenue.
Hanson street, 6 feet south from Skehan street.
Harvard street, 13 feet north from Beech street.
Harvard street, 23 feet north from Harvard place.
Harrison street, 77 feet east from Kent street.
Harrison street (Ward 4), 4 feet east from Elmwood street.
Hawkins street, 50 feet north from Lake street.
Hawthorne street, 8 feet east from Cutter avenue.
Hawthorne street, 209 feet east from West street.
Heath street, 3 feet west from Temple street.
Heath street, 308 feet west from West street.
Heath street, 100 feet west from Bond street.
Heath street, 4 feet east from Fenwick street.
Heath street, 5 feet east from Moreland street.
Henderson street, 107 feet north from Wilton street.

Herbert street, 163 feet west from Chester street.
High street, 289 feet west from Boston street.
Highland avenue, 28 feet west from Hamlet street.
Highland avenue, 5 feet east from Walnut street.
Highland avenue, 262 feet west from Walnut street.
Highland avenue, 80 feet east from Vinal avenue.
Highland avenue, 41 feet west from Putnam street.
Highland avenue, 75 feet west from Prescott street.
Highland avenue, 114 feet west from School street.
Highland avenue, 410 feet west from School street.
Highland avenue, 112 feet west from Trull lane.
Highland avenue, 171 feet east from Central street.
Highland avenue, 214 feet east from Spring Hill terrace.
Highland avenue, 23 feet west from Spring Hill terrace.
Highland avenue, 20 feet west from Belmont street.
Highland avenue, 4 feet east from Tower street.
Highland avenue, 2 feet east from Porter street.
Highland avenue, 212 feet east from Cedar street.
Highland avenue, 35 feet east from Fanning avenue.
Highland avenue, 43 feet west from Lesley avenue.
Highland avenue, 3 feet west from Willow avenue.
Highland avenue, 6 feet west from Grove street.
Highland avenue, 218 feet west from Grove street.
Highland avenue, 64 feet east from Elm street.
Hinckley street, 106 feet south from Broadway.
Holland street, 39 feet west from Dover street.
Holland street, 8 feet west from B. & M. R. R. crossing.
Holland street, 5 feet east from Jay street.
Holland street, 3 feet east from Paulina street.
Holland street, 94 feet east from Claremon street.
Homer square, 200 feet west from Bonner avenue.
Houghton street, 82 feet west from Prospect street.
Houghton street, 3 feet west from Bolton street.
Houghton street, 10 feet west from Oak street.
Hudson street, 12 feet east from Waldo street.
Hudson street, opposite Benton avenue.
Hudson street, 294 feet east from Lowell street.
Hudson street, 362 feet west from Lowell street.

Hudson street, 675 feet west from Lowell street.
Ibbetson street, 256 feet north from Somerville avenue.
Ibbetson street, 6 feet south from Kimball street.
Irving street, 6 feet south from Broadway.
Irving street, 285 feet south from Broadway.
Irving street, 542 feet north from Holland street.
Irving street, 190 feet north from Holland street.
James street, 100 feet north from Pearl street.
Jaques street, 8 feet west from Grant street.
Jaques street, 360 feet east from Temple street.
Jaques street, 185 feet west from Temple street.
Jaques street, 410 feet east from Bond street.
Jasper street, 5 feet south from Virginia street.
Jay street, 82 feet north from Howard street.
Jenny Lind avenue, 224 feet south from Broadway.
Jenny Lind avenue, 16 feet north from Vernon street.
Jenny Lind avenue, 467 feet north from Vernon street.
Josephine avenue, 397 feet north from Morrison street.
Joy street, 34 feet south from Washington street.
Joy street, 502 feet south from Washington street.
Joy street, 271 feet north from Poplar street.
Kensington avenue, 6 feet north from Broadway.
Kent court, 205 feet west from Kent street.
Kidder avenue, 346 feet east from Elm street.
Kingman court, 282 feet south from Washington street.
Kingston street, 95 feet west from Thorndike street.
Knowlton street, opposite Morton street.
Lake street, 220 feet west from Hawkins street.
Lake street, 4 feet east from Carlton street.
Laurel street, 50 feet north from Greene street.
Laurel street, 8 feet north from Park place.
Lawrence street, 9 feet south from Richardson street.
Leland street, 14 feet south from Dane avenue.
Lexington avenue, 3 feet west from Fanning avenue.
Liberty avenue, 3 feet north from Kidder avenue.
Lincoln street, 174 feet north from Perkins street.
Lincoln avenue, 206 feet west from Mt. Vernon street.
Linden street, 31 feet north from Charlestown street.

Linden street, 237 feet south from Somerville avenue.
Linden avenue, 118 feet south from Gilson terrace.
Linden avenue, 255 feet south from Olive avenue.
Linden avenue, 30 feet north from Olive avenue.
Line street, 496 feet west from Cooney street.
Linwood street, 385 feet south from Washington street.
Linwood street, 48 feet south from Lamson court.
Linwood street, 52 feet south from London street.
Linwood street, 2 feet south from Linwood place.
London street, 383 feet east from Linwood street.
Loring street, 273 feet north from Somerville avenue.
Lowell street, 1 foot north from Fiske avenue.
Lowell street, 183 feet south from Richardson street.
Lowell street, opposite Vernon street.
Lowell street, 3 feet south from Princeton street.
Lowell street, 163 feet south from Highland avenue.
Lowell street, 53 feet north from Crown street.
Lowell street, 16 feet north from Kimball street.
Madison street, 467 feet west from School street.
Main street, 112 feet west from Mt. Vernon avenue.
Main street, west corner of Moreland street.
Mansfield street, 190 feet north from Somerville avenue.
Mansfield street, 189 feet south from Washington street.
Maple avenue, 294 feet east from School street.
Maple street, 7 feet south from Jackson street.
Maple street, 87 feet north from Poplar street.
Marshall street, 80 feet south from Stickney avenue.
Marshall street, 30 feet north from Stickney avenue.
Marshall street, opposite Howe street.
Marshall street, 5 feet north from Evergreen avenue.
Marshall street, 104 feet south from Mortimer place.
Marshall street, 109 feet north from Oakland avenue.
Malloy court, 16 feet south from Somerville avenue.
Meacham street, 4 feet north from Orchard street.
Meacham street, 97 feet north from Kingston street.
Meacham street, 200 feet north from Lester terrace.
Meacham street, 14 feet west from Moreland street.
Mead street, 48 feet east from Claremon street.

- Medford street, 50 feet north from Hennessey court.
Medford street, 14 feet north from Jenny Lind avenue.
Medford street, 6 feet north from Central street.
Medford street, 18 feet south from Sycamore street.
Medford street, 46 feet south from Thurston street.
Medford street, north corner School street.
Medford street, 184 feet north from Marshall street.
Medford street, 17 feet south from Walnut street.
Medford street, 291 feet south from Walnut street.
Medford street, 8 feet south from Greenville street.
Medford street, 13 feet north from Prospect Hill avenue.
Medford street, 240 feet south from Prospect Hill avenue.
Medford street, opposite Chester avenue.
Medford street, 216 feet south from Washington street.
Medford street, 69 feet north from Jackson street.
Medford street, 21 feet north from Somerville avenue.
Medford street, 382 feet south from Somerville avenue.
Medford street, 220 feet north from Ward street.
Medford street, 55 feet north from Ward street.
Medford street, 91 feet south from Ward street.
Medford street, 46 feet south from South street.
Medford street, 17 feet south from Warren street.
Medford street, 220 feet south from Warren street.
Melrose street, 610 feet north from Mystic avenue.
Merriam street, 25 feet north from Charlestown street.
Miner street, 137 feet north from Vernon street.
Mondamin court, 272 feet west from Ivaloo street.
Montrose street, 10 feet east from Sycamore street.
Montrose street, 399 feet west from School street.
Moore street, 21 feet north from Mead street.
Moore street, 22 feet south from Holland street.
Moore street, 335 feet south from Holland street.
Moreland street, 345 feet north from Meacham street.
Moreland street, 2 feet south from East Albion street.
Morrison street, 13 feet west from Newberne street.
Morrison street, 183 feet west from Clifton street.
Morrison street, 33 feet west from Grove street.
Mossland street, 114 feet north from Somerville avenue.

Munroe street, 203 feet east from Walnut street.
Murdock street, 204 feet east from Cedar street.
Murdock street, 610 feet east from Cedar street.
Mt. Vernon avenue, 156 feet north from Heath street.
Mt. Vernon avenue, 38 feet south from Heath street.
Mt. Vernon street, 246 feet north from Washington street.
Mt. Vernon street, 8 feet north from Pearl street.
Mt. Vernon street, 7 feet south from Perkins street.
Mt. Vernon street, 5 feet south from Broadway.
Mt. Pleasant street, 253 feet south from Broadway.
Myrtle street, 460 feet north from Washington street.
Myrtle street, 74 feet south from Pearl street.
Mystic avenue, 90 feet east from Union street.
Mystic avenue, 3 feet west from Union street.
Mystic avenue, 438 feet east from Austin street.
Mystic avenue, 60 feet west from Temple street.
Mystic avenue, 800 feet east from Moreland street.
Mystic avenue, 544 feet east from Moreland street.
Mystic avenue, 241 feet east from Moreland street.
Mystic street, 160 feet south from Washington street.
Nashua street, 190 feet south from Wilton street.
Newbury street, 15 feet south from Holland street.
Newbury street, 260 feet south from Holland street.
Newbury street, 558 feet south from Holland street.
Newbury street, 777 feet south from Holland street.
Newbury street, 200 feet north from Cambridge line.
New Cross street, 114 feet north from Broadway.
Newton street, 9 feet west from Joseph street.
Newton street, 9 feet east from Clark street.
Norfolk street, 27 feet south from Webster avenue.
Norfolk street, 227 feet south from Webster avenue.
North street, 18 feet north from Broadway.
North street, 453 feet north from Raymond avenue.
North street, 190 feet north from city bound No. 17.
North Union street, 287 feet north from Mystic avenue.
Oak street, 8 feet west from Prospect street.
Oak street, 315 feet north from Houghton street.
Oakland avenue, 192 feet east from School street.

- Oliver street, 191 feet east from Cross street.
- Oliver street, 15 feet east from Glen street.
- Oliver street, 7 feet west from Franklin street.
- Orchard street, 8 feet west from Russell street.
- Orchard street, west corner Milton street.
- Orchard street, 9 feet east from Chester street.
- Otis street, 440 feet west from Cross street.
- Otis street, 9 feet east from Dana street.
- Otis street, 6 feet east from Wigglesworth street.
- Oxford street, 362 feet west from School street.
- Oxford street, 100 feet west from Hersey street.
- Park avenue, 83 feet west from Elm street.
- Park avenue, 10 feet west from Chandler street.
- Park street, 33 feet north from Fitchburg R. R.
- Park street, 146 feet north from Beacon street.
- Partridge avenue, 5 feet south from Broadway.
- Partridge avenue, 26 feet north from Medford street.
- Partridge avenue, 117 feet south from Medford street.
- Partridge avenue, 421 feet south from Medford street.
- Partridge avenue, 276 feet north from Vernon street.
- Paulina street, 184 feet north from Holland street.
- Paulina street, 288 feet south from Broadway.
- Paulina street, 5 feet south from Broadway.
- Pearl street, 50 feet west from Crescent street.
- Pearl street, 7 feet north from Pinckney street.
- Pearl street, 60 feet west from Hillside avenue.
- Pearl street, 15 feet east from Delaware street.
- Pearl street, 9 feet west from Glen street.
- Pearl street, 30 feet west from Dana street.
- Pearl street, 1 foot west from Wigglesworth street.
- Pearl street, 6 feet west from Walnut street.
- Pearl street, 110 feet east from Marshall street.
- Perkins street, opposite Myrtle street.
- Perkins street, 78 feet east from Florence street.
- Perkins street, 24 feet east from Pinckney street.
- Perkins street, 56 feet east from Perkins place.
- Perkins street, 21 feet east from Mt. Pleasant street.
- Pinckney street, 11 feet north from Washington street.

Pinckney street, 330 feet south from Pearl street.
Pinckney street, 203 feet north from Pearl street.
Pinckney street, 71 feet south from Pearl street.
Pleasant avenue, 256 feet west from Walnut street.
Prescott street, 330 feet south from Highland avenue.
Prescott street, 586 feet south from Highland avenue.
Prescott street, 257 feet north from Summer street.
Preston street, 350 feet west from School street.
Poplar street, 21 feet west from Joy street.
Porter street, 1 foot north from Mountain avenue.
Porter street, 282 feet south from Summer street.
Porter street, 24 feet north from Williams court.
Porter street, 8 feet north from Parker place.
Professors' row, 277 feet east from College avenue.
Professors' row, 126 feet west from College avenue.
Professors' row, 291 feet west from College avenue.
Professors' row, 548 feet east from Packard avenue.
Professors' row, 156 feet east from Packard avenue.
Professors' row, 286 feet west from Packard avenue.
Prospect Hill avenue, 10 feet north from High street.
Prospect street, 135 feet north from Bennett street.
Prospect street, 35 feet south from Concord avenue.
Prospect street, 185 feet south from Oak street.
Prospect street, 403 feet south from Oak street.
Prospect street, 63 feet north from Houghton street.
Putnam street, 116 feet south from Highland avenue.
Putnam street, 420 feet south from Highland avenue.
Putnam street, 612 feet north from Summer street.
Putnam street, 308 feet north from Summer street.
Quincy street, 340 feet south from Summer street.
Richardson street, 11 feet west from Nashua street.
Richdale avenue, opposite Thurston street.
Robinson street, 325 feet west from Central street.
Rogers avenue, 255 feet north from Morrison avenue.
Rossmore street, 244 feet south from Washington street.
Rush street, 84 feet south from Pearl street.
Rush street, 11 feet north from Pearl street.
Rush street, 128 feet north from Brook street.

Sacramento street, 5 feet south from Miller street.
Sanborn avenue, 55 feet east from Walnut street.
Sargent avenue, 474 feet south from Broadway.
Sargent avenue, 361 feet west from Walnut street.
Sargent avenue, 95 feet west from Walnut street.
School street, 100 feet south from Maple avenue.
School street, 6 feet south from Montrose street.
School street, 128 feet north from Highland avenue.
School street, 88 feet north from Oxford street.
School street, 15 feet north from Avon street.
School street, 100 feet south from Summer street.
School street, 93 feet south from Preston street.
School street, 61 feet north from Knapp street.
Sewall street, 311 feet west from Grant street.
Shawmut street, 9 feet west from Washington street.
Shawmut street, 153 feet west from Shawmut place.
Simpson avenue, 272 feet south from Broadway.
Skehan street, 110 feet east from Hanson street.
Somerville avenue, 188 feet west from Mossland street.
Somerville avenue, 308 feet east from Mossland street.
Somerville avenue, 600 feet east from Mossland street.
Somerville avenue, 116 feet west from Elm street.
Somerville avenue, 9 feet east from Ibbetson street.
Somerville avenue, 77 feet east from Belmont street.
Somerville avenue, 14 feet west from Garden court.
Somerville avenue, 133 feet west from Kent street.
Somerville avenue, 13 feet west from Beech street.
Somerville avenue, 11 feet east from Central street.
Somerville avenue, 15 feet west from Laurel street.
Somerville avenue, 86 feet west from Granite street.
Somerville avenue, 38 feet west from Sherman street.
Somerville avenue, 185 feet west from Hawkins street.
Somerville avenue, 88 feet west from Quincy street.
Somerville avenue, 105 feet east from Carlton street.
Somerville avenue, 90 feet west from Prospect street.
Somerville avenue, 28 feet west from Linden street.
Somerville avenue, 9 feet east from Mystic street.
Somerville avenue, 94 feet west from Mansfield street.

Somerville avenue, 126 feet east from Medford street.
Somerville avenue, 88 feet east from Poplar street.
Somerville avenue, 464 feet east from Poplar street.
Somerville avenue, 153 feet west from Linwood street.
Somerville avenue, 20 feet east from F. R. R. crossing.
Somerville avenue, 262 feet west from Franklin court.
Somerville avenue, 23 feet east from Franklin court.
Somerville avenue, 100 feet west from Cambridge line.
South street, 97 feet west from Bedford street.
South street, 2 feet east from Harding street.
South street, 25 feet west from Hunting street.
South street, 80 feet west from Willow place.
Spring street, 10 feet south from Pitman street.
Spring street, 184 feet north from Beech street.
Springfield street, 140 feet south from Concord avenue.
Springfield street, 21 feet south from Dickinson street.
Springfield street, 177 feet south from Houghton street.
Spring Hill terrace, 333 feet south from Highland avenue.
Stickney avenue, 212 feet west from Marshall street.
Stone avenue, 120 feet north from Union square.
Stone avenue, 275 feet south from Columbus avenue.
Summer street, 148 feet east from Cutter avenue.
Summer street, opposite Elston street.
Summer street, west corner Gordonia road.
Summer street, 34 feet east from Banks street.
Summer street, 6 feet east from Cherry street.
Summer street, 6 feet east from Cedar street.
Summer street, 24 feet east from Linden avenue.
Summer street, opposite Craigie street.
Summer street, 35 feet east from Porter street.
Summer street, 4 feet east from Lowell street.
Summer street, 3 feet east from Belmont street.
Summer street, 1 foot west from Spring street.
Summer street, 53 feet west from Harvard street.
Summer street, 215 feet east from Harvard street.
Summer street, 59 feet east from Central street.
Summer street, 19 feet west from Laurel street.
Summer street, 52 feet west from Preston street.

- Summer street, 191 feet west from School street.
Summer street, 8 feet east from School street.
Summer street, opposite Putnam street.
Summer street, 6 feet west from Vinal avenue.
Summit avenue, 231 feet east from Vinal avenue.
Sunnyside avenue, 99 feet west from Wigglesworth street.
Sycamore street, 18 feet south from Broadway.
Sycamore street, 62 feet south from Browning road.
Sycamore street, 1 foot south from Forster street.
Sycamore street, 200 feet north from Medford street.
Sycamore street, 174 feet south from Medford street.
Sydney street, 418 feet east from Temple street.
Talbot avenue, 488 feet east from Packard avenue.
Temple street, 4 feet north from Broadway.
Temple street, 123 feet south from Sewall street.
Temple street, 11 feet north from Jaques street.
Temple street, 6 feet south from Derby street.
Temple street, 5 feet south from Sydney street.
Tenney court, 306 feet north from Mystic avenue.
Tennyson street, 4 feet south from Medford street.
Tennyson street, 117 feet north from Pembroke street.
Thorndike street, 4 feet south from Holland street.
Thorndike street, 82 feet north from Kingston street.
Thorpe place, 269 feet south from Highland avenue.
Thurston street, 187 feet north from Medford street.
Thurston street, 160 feet south from Evergreen avenue.
Thurston street, 6 feet north from Evergreen avenue.
Thurston street, 348 feet north from Evergreen avenue.
Tower street, 18 feet north from Crown street.
Tremont street, 9 feet south from Webster avenue.
Tremont street, 454 feet south from Webster avenue.
Trull street, 3 feet south from Medford street.
Trull street, 276 feet south from Medford street.
Trull street, 522 feet north from Vernon street.
Trull street, 270 feet north from Vernon street.
Tufts street, 51 feet north from Washington street.
Tufts street, 150 feet south from Glen street.
Tufts street, 43 feet north from Glen street.

- Tufts street, 53 feet south from Dell street.
Tufts street, 45 feet south from Cross street.
Tyler street, 31 feet east from Vine street.
Union square, 267 feet east from Webster avenue.
Union square, 15 feet east from Stone avenue.
Union square, in the square, opposite Hill building.
Union square, centre of square.
Union street, 3 feet north from Broadway.
Union street, 123 feet south from Mystic avenue.
Veazie street, 1 foot west from James street.
Vernon street, 72 feet west from Partridge avenue.
Vernon street, 1 foot east from Bartlett street.
Vernon street, 2 feet east from Miner street.
Victoria street, 255 feet south from Broadway.
Vinal avenue, 10 feet north from Pleasant avenue.
Vinal avenue, 129 feet north from Aldersey street.
Vinal avenue, 206 feet north from Summer street.
Vinal avenue, 6 feet south from Highland avenue.
Vine street, 15 feet north from Beacon street.
Vine street, opposite Eliot street.
Virginia street, 45 feet west from Aldrich street.
Waldo street, 6 feet north from Highland avenue.
Wallace street, 37 feet south from Broadway.
Wallace street, 395 feet south from Broadway.
Wallace street, 483 feet north from Park avenue.
Wallace street, 166 feet north from Park avenue.
Wallace street, 10 feet north from Holland street.
Walnut street, opposite Veazie street.
Walnut street, 87 feet north from Gilman street.
Walnut street, 88 feet south from Wellington avenue.
Walnut street, 31 feet north from Pleasant avenue.
Walnut street, 12 feet south from Boston street.
Walter street, 28 feet west from Walnut street.
Walter street, 50 feet west from Bradley street.
Ward street, 104 feet west from Medford street.
Ward street, 3 feet east from Emery street.
Ware street, 258 feet west from Curtis street.
Warren avenue, 5 feet north from Sanborn avenue.

- Warren avenue, 48 feet north from Bow street.
Warren avenue, 7 feet south from Columbus avenue.
Warwick street, 426 feet east from Cedar street.
Washington street, 69 feet west from Crescent street.
Washington street, west corner Mt. Vernon street.
Washington street, 6 feet west from Florence street.
Washington street, 15 feet west from Myrtle street.
Washington street, 18 feet east from Franklin avenue.
Washington street, 160 feet east from Franklin street.
Washington street, 50 feet east from Shawmut street.
Washington street, 37 feet east from Rossmore street.
Washington street, 78 feet east from Boston street.
Washington street, 28 feet west from Mystic street.
Washington street, 6 feet west from Clark place.
Washington street, 156 feet west from Bonner avenue.
Washington street, 6 feet east from Kingman court.
Washington street, 243 feet east from Parker street.
Washington street, 50 feet east from Bowdoin street.
Washington street, 9 feet east from Leland street.
Washington street, 175 feet west from Dane street.
Washington street, 45 feet east from Beacon street.
Water street, 91 feet north from South street.
Water street, 254 feet north from South street.
Water street, 354 feet north from South street.
Waterhouse street, 24 feet south from Broadway.
Waterhouse street, 326 feet south from Broadway.
Waterhouse street, 630 feet south from Broadway.
Webster avenue, 93 feet south from Washington street.
Webster avenue, 12 feet south from Everett street.
Webster avenue, 25 feet north from Newton street.
Webster avenue, 63 feet north from Prospect street.
Webster avenue, 18 feet south from Prospect street.
Webster avenue, 78 feet north from Tremont street.
Webster avenue, 3 feet north from Beach avenue.
Webster avenue, 1 foot south from Columbia court.
Webster street, 25 feet east from Cross street.
Webster street, 9 feet east from Rush street.
Webster street, 10 feet west from Cutter street.
Wellington avenue, 15 feet west from Montgomery avenue.

Wesley park, 245 feet north from Bow street.
 West street, 2 feet north from Broadway.
 West street (Ward 4), 3 feet north from Highland avenue.
 West street (Ward 4), 140 feet north from Highland avenue.
 Westminster street, 156 feet south from Electric avenue.
 Westwood road, 90 feet west from Central street.
 Westwood road, 58 feet east from Benton road.
 Wheatland street, 129 feet north from Broadway.
 Wheatland street, 9 feet south from Jaques street.
 Wheatland street, 78 feet south from Mystic avenue.
 Willow avenue, 14 feet north from Summer street.
 Willow avenue, 3 feet north from Lexington avenue.
 Willow avenue, 46 feet south from Morrison street.
 Willow avenue, 42 feet south from Fosket street.
 Wilton street, 6 feet east from Nashua street.
 Wilton street, 10 feet east from Lawrence street.
 Windom street, 7 feet south from Summer street.
 Windsor road, 86 feet east from Willow avenue.
 Winslow avenue, 145 feet east from Elm street.
 Winslow avenue, 5 feet west from Grove street.
 Winter street, 130 feet east from Holland street.
 Winter Hill circle, 178 feet north from Broadway.
 Winthrop avenue, 7 feet north from Broadway.
 Woodbine street, 222 feet west from Centre street.
 Wyatt street, 42 feet west from Cook street.
 Wyatt street, 324 feet east from Washington street.

PRIVATE HYDRANTS.

John P. Squire & Co.	7
North Packing and Provision Co.	11
Middlesex Bleachery	3
American Tube Works	2
Union Glass Works	1
Fitchburg Railroad	1
New England Dressed Meat and Wool Co.	6
Metropolitan Sewerage Pumping Station	1
Boston & Maine Railroad	8
Fresh Pond Ice Co.	1

GATES — CONSTRUCTION ACCOUNT.

New gates have been set in the following locations:—

- Ashland street, 6-inch gate, 10 feet out from east line, on north line of Sartwell avenue.
- Bedford street, 4-inch gate, 10 feet out from east line, on south line of house No. 3.
- Bowers avenue, 6-inch gate, 8 feet out from west line, on north line of Cottage avenue.
- Broadway, 12-inch gate, 36 feet out from south line and 25 feet east from west line of Temple street.
- Broadway, 12-inch gate, 36 feet out from south line and 14 feet east from west line of Temple street.
- Broadway, 12-inch check valve, 36 feet out from south line and 21 feet east from west line of Temple street.
- Broadway, 2-inch gate, 3 feet out from water-post between Willow avenue and Rogers avenue.
- Broadway park, 4-inch gate, 7 feet out from park fence line and 12 feet south from north line of house No. 56 Chauncey avenue.
- Chester avenue, 6-inch gate, 13 feet 4 inches out from south line, on west line of Cross street.
- Columbia street, 4-inch gate, 11 feet out from west line and 4 feet north from Cambridge line.
- Conwell street, 6-inch gate, 11 feet 8 inches out from east line, on south line of Highland avenue.
- Crescent street, 6-inch gate, 10 feet south from fence line and 12 feet south from south line of house No. 10.
- Cross street, 6-inch gate, 25 feet out from south line of Medford street, on west line of Cross street.
- Cross street, 12-inch gate, 25 feet out from south line of Medford street and 5 feet east from east line of Prospect Hill avenue.
- Cross street, 6-inch gate, 17 feet out from east line and 15 feet north from south line of Chester avenue.
- Curtis street, 12-inch gate, 13 feet 4 inches out from east line, on south line of Professors' row.
- Curtis street, 6-inch gate, 13 feet 4 inches out from east line and 26 feet 8 inches north from north line of Professors' row.

- Dane avenue, 8-inch gate, 10 feet out from south line, on west line of Leland street.
- Dane avenue, 6-inch gate, 13 feet out from south line and 6 feet west from east line of house No. 21.
- Durham street, 6-inch gate, 13 feet 4 inches out from north line, on west line of Hanson street.
- Electric avenue, 6-inch gate, 13 feet 4 inches out from north line, on east line of Curtis street.
- Fairlee street, 6-inch gate, 10 feet out from north line, on west line of Cherry street.
- Fairview terrace, 2-inch gate, 6 feet out from south line, on east line of Sycamore street.
- Florence terrace, 2-inch gate, 5 feet out from west line, on south line of Jaques street.
- Garrison avenue, 6-inch gate, 13 feet 4 inches out from west line, on south line of Broadway.
- George street, 6-inch gate, 10 feet out from east line, on north line of Lincoln avenue.
- Gordonia road, 6-inch gate, 13 feet 4 inches out from east line, on south line of Highland avenue.
- Greenwood terrace, 2-inch gate, 8 feet 6 inches out from east line, on north line of Beacon street.
- Hanson street, 6-inch gate, 11 feet 8 inches out from east line, on south line of Vine street.
- Harding street, 4-inch gate, 15 feet out from east line, on Cambridge line.
- Hathorn street, 6-inch gate, 13 feet out from east line, on north line of Arlington street.
- Highland avenue, 6-inch gate, 4 feet out from hydrant located 214 feet east from Spring Hill terrace.
- Holland street, 6-inch gate, 27 feet out from south line and 10 feet east from west line of Paulina street.
- Holland street, 12-inch check valve, 19 feet out from south line and 27 feet east from west line of Gorham street.
- Hunting street, 4-inch gate, 12 feet out from east line and 4 feet north from Cambridge line.
- Jaques street, 6-inch gate, 13 feet out from north line, on east line of Grant street.

- Jasper street, 6-inch gate, 13 feet 4 inches out from west line, on south line of Pearl street.
- Kidder avenue, 6-inch gate, 13 feet 4 inches out from north line, on west line of Liberty avenue.
- Leland street, 8-inch gate, 13 feet 4 inches out from west line, on north line of Washington street.
- Linden circle, 2-inch gate, 8 feet out from north line, on east line of Linden avenue.
- Medford street, 6-inch gate, 19 feet out from west line and 34 feet south from B. & A. R. R. crossing.
- Mt. Vernon avenue, 8-inch gate, 15 feet 6 inches out from east line and 15 feet 6 inches north from south line of Heath street.
- Murray street, 2-inch gate, 10 feet out from west line and 8 feet south from south line of house No. 15.
- Norfolk street, 4-inch gate, 12 feet out from south line and 3 feet east from Cambridge line.
- North street, 12-inch gate, 13 feet 4 inches out from east line, on north line of Broadway.
- Oak street, 4-inch gate, 10 feet out from south line, on east line of house No. 77.
- Packard avenue, 12-inch gate, 17 feet out from east line and 52 feet north from south line of Professors' row.
- Pearl street, 12-inch gate, 16 feet out from north line and 1 foot west from west line of Marshall street.
- Pearl street, 8-inch gate, 16 feet out from north line and 15 feet east from west line of Marshall street.
- School street, 2-inch gate, 3 feet out from water-post opposite Cummings school.
- Shawmut place, 6-inch gate, 10 feet out from north line and 20 feet east from west line of Allston street.
- Temple street, 6-inch gate, 21 feet out from west line and 16 feet north from north line of Heath street.
- Temple street, 8-inch gate, 21 feet out from west line, on north line of Broadway.
- Temple street, 12-inch gate, 22 feet east from west line and 50 feet out from north line of Broadway.
- Temple street, 12-inch gate, 22 feet out from west line and 15 feet north from south line of Jaques street.

- Tremont street, 4-inch gate, 12 feet out from south line and 2 feet east from Cambridge line.
- Vine street, 6-inch gate, 8 feet out from hydrant and 15 feet east from east line of Beacon street.
- Virginia street, 6-inch gate, 13 feet 4 inches out from north line, on east line of Jasper street.
- Waldo street, 6-inch gate, 13 feet 4 inches out from west line, on north line of Highland avenue.
- Waldo street, 6-inch gate, 13 feet 4 inches out from west line and 19 feet south from north line of Highland avenue.
- Watson street, 6-inch gate, 13 feet 4 inches out from west line, on south line of Fairmount avenue.
- Watson street, 6-inch gate, 13 feet 4 inches out from west line, on north line of Broadway.
- Webster avenue, 6-inch gate, 19 feet out from east line and 5 feet north from south line of house No. 98.
- Willow place, 4-inch gate, 7 feet 6 inches out from east line and 4 feet north from Cambridge line.
- Wilson avenue, 4-inch gate, 6 feet out from west line, on south line of house No. 20.
- Windsor road, 6-inch gate, 13 feet 4 inches out from north line, on east line of Willow avenue.
- Windsor road, 6-inch gate, 13 feet 4 inches out from north line, on west line of Gordonia road.
- Winthrop avenue, 6-inch gate, 16 feet 4 inches out from east line, on north line of Broadway.

GATES—RENEWAL ACCOUNT.

The following changes have been made in the size and location of main gates:—

- Allston street, 6-inch gate, set 13 feet 4 inches out from south line, on east line of Cross street, and 4-inch gate removed from same location.
- Arlington street, 6-inch gate, set 13 feet 4 inches out from north line, on west line of Lincoln street, and 4-inch gate removed from same location.
- Arlington street, 6-inch gate, set 13 feet 4 inches out from north line, on east line of Franklin street, and 4-inch gate removed from same location.

- Belmont street, 8-inch gate, set 13 feet out from west line, on south line of Belmont place, and 4-inch gate removed from 15 feet out from west line, on south line of Belmont place.
- Broadway, 12-inch gate, set 14 feet out from south line and 16 feet west from west line of Victoria street, and 8-inch gate removed from 20 feet out from south line and 134 feet east from east line of Endicott avenue.
- Broadway, 12-inch gate, set 21 feet out from south line on east line of Newbury street, and 10-inch gate removed from Park in Teele square.
- Broadway, 12-inch gate, set 14 feet out from south line, on west line of Endicott avenue, and 10-inch gate removed from 21 feet out from south line, on west line of Packard avenue.
- Broadway, 12-inch gate, set 30 feet out from south line and 4 feet west from west line of Dexter street, and 8-inch gate removed from 40 feet out from south line, opposite Dexter street.
- Broadway place, 4-inch gate, set 8 feet 4 inches out from east line, and 194 feet south from south line of Broadway, and 3-inch gate removed from 12 feet out from east line and 192 feet south from south line of Broadway.
- Cameron avenue, 10-inch gate, set 20 feet 6 inches out from east line, on south line of Holland street, and 6-inch gate removed from same location.
- Chester avenue, 6-inch gate, set 8 feet 4 inches out from north line, on north line of Medford street, and 4-inch gate removed from same location.
- Clarendon avenue, 8-inch gate, set 13 feet out from west line, on south line of Broadway, and 6-inch gate removed from same location.
- Curtis street, 12-inch gate, set 13 feet 4 inches out from east line and 48 feet north from north line of house No. 54, and 6-inch gate removed from 13 feet 4 inches out from east line, opposite Raymond avenue.
- Curtis street, 12-inch gate, set 13 feet 4 inches out from east line, on north line of Broadway, and 6-inch gate removed from same location.

- Elmwood street, 8-inch gate, set 13 feet 4 inches out from west line, on south line of Holland street, and 4-inch gate removed from same location.
- Farm lane, 8-inch gate, set 11 feet out from east line, on south line of Broadway, and 6-inch gate removed from 11 feet out from east line and 20 feet north from south line of Broadway.
- Florence street, 6-inch gate, set 15 feet 6 inches out from west line, on north line of Pearl street, and 4-inch gate removed from same location.
- Hanson street, 6-inch gate, set 11 feet 8 inches out from east line, on north line of Skehan street, and 4-inch gate removed from same location.
- Hinckley street, 8-inch gate, set 9 feet 6 inches out from west line, on south line of Broadway, and 6-inch gate removed from same location.
- Holland street, 12-inch gate, set 18 feet 6 inches out from south line, on east line of Newbury street, and 10-inch gate removed from 20 feet out from south line, on west line of Newbury street.
- Holland street, 12-inch gate, set 19 feet out from south line and 21 feet east from west line of Gorham street, and 10-inch gate removed from 20 feet out from south line, on east line of Cameron avenue.
- Holland street, 12-inch gate, set 19 feet out from south line and 32 feet 6 inches east from west line of Gorham street, and 10-inch gate removed from 20 feet out from south line, on west line of Thorndike street.
- Holland street, 12-inch gate, set 19 feet out from north line, on east line of Irving street, and 10-inch gate removed from 20 feet out from south line, on east line of Thorndike street.
- Jaques street, 6-inch gate, set 13 feet 4 inches out from north line, on east line of Temple street, and 4-inch gate removed from same location.
- Lincoln avenue, 6-inch gate, set 10 feet out from south line, on west line of Mt. Vernon street, and 4-inch gate removed from 12 feet out from north line, on west line of Mt. Vernon street.

Mt. Vernon street, 10-inch gate, set 15 feet out from east line, on south line of Perkins street, and 6-inch gate removed from same location.

Mt. Vernon street, 10-inch gate, set 13 feet 4 inches out from west line, on south line of Pearl street, and 6-inch gate removed from same location.

Myrtle street, 8-inch gate, set 14 feet out from east line, on north line of Pearl street, and 6-inch gate removed from 17 feet out from east line, on north line of Pearl street.

Newbury street, 8-inch gate, set 13 feet out from east line, on south line of Holland street, and 6-inch gate removed from same location.

Pearl street, 12-inch gate, set 16 feet 8 inches out from north line, on west line of Mt. Vernon street, and 8-inch gate removed from same location.

Pearl street, 6-inch gate, set 13 feet 4 inches out from north line of New Pearl street, on east line of Mt. Vernon street, and 4-inch gate removed from same location.

Shawmut street, 8-inch gate, set 13 feet 4 inches out from north line, on east line of Cross street, and 4-inch gate removed from 12 feet out from north line, on east line of Cross street.

Shawmut street, 8-inch gate, set 13 feet 4 inches out from north line, on west line of Washington street, and 8-inch gate removed from 15 feet out from south line, on west line of Washington street.

Shawmut place, 6-inch gate, set 9 feet 9 inches out from west line, on north line of Shawmut street, and 4-inch gate removed from same location.

Temple street, 12-inch gate, set 22 feet out from west line, on north line of Broadway, and 8-inch gate removed from same location.

Vine street, 8-inch gate, set 8 feet 4 inches out from east line, on north line of Beacon street, and 6-inch gate removed from 14 feet out from east line, on north line of Beacon street.

Vine street, 8-inch gate, set 8 feet 4 inches out from east line and 12 feet south from west line of Hanson street, and

6-inch gate removed from 9 feet out from east line, on west line of Hanson street.

Broadway, 8-inch gate, removed from 34 feet out from south line, on east line of Marshall street.

Broadway, 8-inch gate, removed from 40 feet out from south line, on west line of Medford street.

Cost of maintenance of main gates and boxes, for labor, materials and teaming \$239.59

RECAPITULATION.

GATES	2''	3''	4''	6''	8''	10''	12''	Total
Set	7		11	45	16	3	23	105
Removed		1	13	12	7	6		39

Net increase in number of gates in 1898 66

Total number of gates in the city January 1, 1899 1,035

WATER-POSTS.

Two new water-posts for the use of the street-watering department were set in 1898, in the following locations : —

Broadway, near Willow avenue.

School street, opposite Cummings school.

One water-post was set on Wheatland street, near the corner of Mystic avenue, for the use of the Metropolitan Park Commission, and at their expense.

The total number now in the city is fifty-seven. One water-post was moved from Main street, near Broadway, to Bond street, near Broadway; one from Summer street, opposite Laurel street, to Laurel street, near Summer street; one from Highland avenue, at corner of Willow avenue, to Grove street, near Highland avenue; one from Highland avenue, opposite No. 241, to Highland avenue, opposite Crocker street; and one was moved from Broadway, corner of Melvin street, to Broadway Park, near Winthrop avenue. All have been painted, and are in good repair.

LOCATIONS OF WATER-POSTS.

- Albion street, near Lowell street.
- Appleton street, near Willow avenue.
- Beacon street, opposite Cooney street.
- Beacon street, near Vine street.
- Beacon street, near Sacramento street.
- Bond street, near Broadway.
- Boston street, near Greenville street.
- Broadway, near corner of Franklin street.
- Broadway, near Winthrop avenue.
- Broadway, opposite city farm.
- Broadway, near Willow avenue.
- Broadway, near Irving street.
- Broadway, corner of Clarendon avenue.
- Broadway, opposite North street.
- Columbus avenue, near Stone avenue.
- Concord avenue, corner of Marion street.
- Elm street, near Burnside avenue.
- Elm street, near Morrison street.
- Elm street, opposite Kenwood street.
- Flint street, near Cross street.
- Gilman street, near Walnut street.
- Grove street, near Highland avenue.
- Highland avenue, corner of Medford street.
- Highland avenue, corner of Central street.
- Highland avenue, opposite Crocker street.
- Holland street, near Elmwood street.
- Jaques street, near Glines school.
- Laurel street, near Summer street.
- Linwood street, near Poplar street.
- Medford street, corner of Lee street.
- Medford street, near Jenny Lind avenue.
- Montrose street, near School street.
- Mystic avenue, corner of Union street.
- Orchard street, near Meacham street.
- Otis street, near Cross street.
- Pearl street, near Delaware street.
- Pearl street, near Myrtle street.

- Putnam street, corner of Summer street.
- School street, near Broadway.
- School street, opposite Cummings School.
- Somerville avenue, near East Cambridge line.
- Somerville avenue, near Poplar street.
- Somerville avenue, corner of Mystic street.
- Somerville avenue, near School street.
- Somerville avenue, corner of Beacon street.
- Spring street, near Somerville avenue.
- Summer street, near Belmont street.
- Summer street, corner of Cedar street.
- Summer street, corner of Elm street.
- Tufts street, corner of Cross street.
- Vinal avenue, near Highland avenue.
- Washington street, corner of Myrtle street.
- Washington street, corner of Boston street.
- Washington street, near Union square.
- Washington street, opposite Leland street.
- Wheatland street, near Mystic avenue.
- Webster avenue, near glass house.

The following items of expense appear for the construction and maintenance of water-posts :—

Cost of setting two new water-posts, complete :—

Materials	\$47.79	
Labor and teaming	25.12	
		\$72.91

Maintenance of posts and turning off and on water :—

Materials	\$139.21	
Labor and teaming	219.47	
		358.68

Total cost		\$431.59
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METER TABLE.

SHOWING THE NUMBER OF METERS SET, THE PURPOSE FOR WHICH THEY ARE USED, AND THE INCOME RECEIVED.

PURPOSE.	Number.	Meters Set.	Meters Removed.	Amount Received.
Apartment Houses	5	6		\$ 527.12
Bacon Works	1	1		96.69
Bakeries	1	1	1	38.64
Bleachery and Dye Works	1	1		318.96
Car Houses	4	6		518.73
Churches	1	1		23.10
Coal Wharves	2	2		341.19
Distilleries	1	1		200.51
Electric Light Stations	1	1		1,515.84
Elevator Clocks	1	1		392.28
Factories	16	18		2,430.19
Fire Stations	1	1		116.20
Foundries	1	1		86.80
Glass Works	2	2		85.54
Grain Elevators	1	1		37.31
Hospitals	1	1		145.88
Hotels	3	3		280.94
Machine Shops	1	1		16.80
Motor Clocks	6	6		46.48
Offices and Stores	16	16		691.92
Photograph Studios	1	1		21.84
Pickle and Preserving Works	2	3		327.74
Poultry Farms	1	1		29.54
Printing Offices	1	1		73.49
Public Buildings	2	2		79.24
Pumping Stations	1	1		225.50
Railway Stations	3	3		188.91
Railway Yards	2	2		13,154.56
Schoolhouses	19	18		1,232.10
Slaughtering and Rendering Establishments	5	16		15,788.50
Soap Works	2	2		207.08
Stables	24	24	1	1,358.61
Steam Engines	4	4	3	193.80
Stock Yards	2	2		142.82
Vinegar Works	2	4		132.76
		155	5	\$41,067.61

Expenditure for labor, teaming and materials used in meter construction

\$8,015.49

Expense of maintenance and repairs of meters and changes in meter connections, for labor and materials, has been

161.23

MAINTENANCE OF STREET MAINS.

The following bursts and leaks on street mains occurred in 1898:—

BURSTS.

	SIZE OF MAIN.	NUMBER.
	3"	1
	4"	8
	6"	2
	8"	2
Total		13

LEAKS.

	SIZE OF MAIN.	NUMBER.
	4"	2
	6"	3
	12"	1
	16"	1
Total		7

Expenditures in 1898, on account of defective street mains, were:—

Pipe and fittings	\$101.15
Labor and teaming	342.10
	<hr/>
	\$443.25

WATER SERVICES.

SERVICE CONSTRUCTION.

Two hundred and five new service connections were made in 1898, as follows:—

Owners' applications received in 1898	204
Transferred from City of Cambridge main in Somerville avenue	1
	<hr/>
	205

The following table shows the sizes and lengths laid : —

	SIZE.	NUMBER.	LENGTH.
	2"	3	121 feet
	1"	8	229 "
	¾"	194	7,301 "
Total		205	7,651 feet

Total number of service pipes laid to January 1, 1899, 9,806.

Total length of service pipe used in making service connections, 61 miles, 3,536 feet.

SERVICE MAINTENANCE.

The following items of expense appear in the maintenance and repairs of service pipes :—

Leaks repaired on service pipes	163
Iron service boxes set	129
New service gates set on old connections	44
Services cleaned of sediment, fish, etc.	107
Services replaced at city's expense on account of defective pipe and fittings	7
Total expenditure for labor and fittings on service maintenance account	\$2,085.36

HIGH SERVICE.

COST OF OPERATION AND MAINTENANCE.

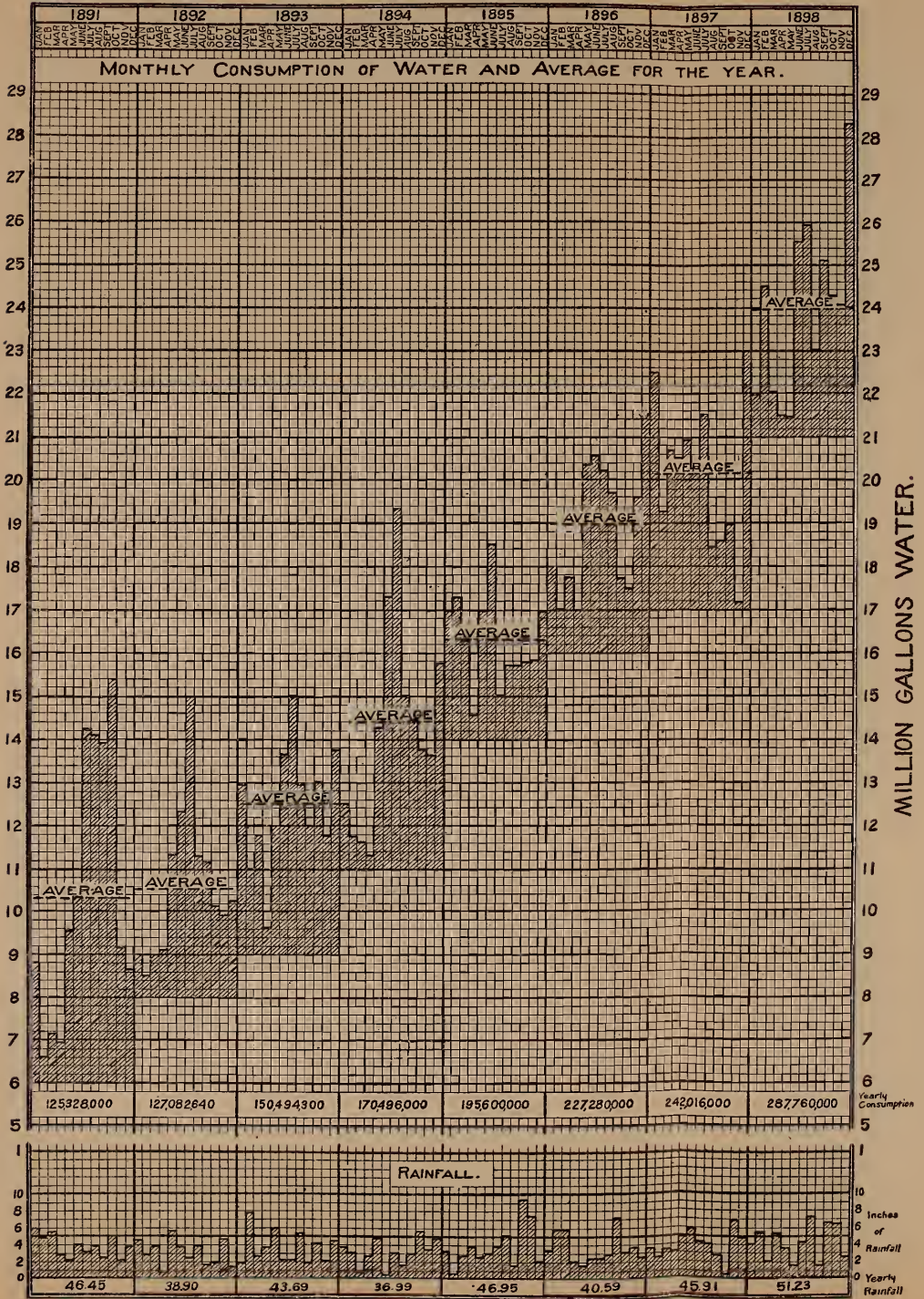
Engineer's salary	\$1,100.00
Firemen's wages	850.75
Fuel for boiler	1,554.14
Telephone rental and tolls	82.69
Electric lighting	49.21
Supplies and repairs to pump and boilers	215.70
	\$3,852.49

Total number of gallons of water pumped in 1898, 287,760,000.

Cost of pumping per 1,000 gallons, based on the expense of operating the high service system, \$0.01343.

— SOMERVILLE WATER WORKS —

CHART SHOWING THE CONSUMPTION OF WATER IN THE DISTRICT SUPPLIED BY THE
SOMERVILLE HIGH SERVICE
ALSO THE
RAINFALL IN SOMERVILLE



VALUATION OF PROPERTY UNDER CONTROL OF
THE WATER BOARD, DECEMBER 31, 1898.

78 miles, 2,442 feet of iron and cement distribution mains	}	\$700,000.00
1,035 gates and boxes set in connection therewith		
822 fire hydrants set in connection therewith		
57 water-posts set in connection therewith		
194 water meters set in connection therewith		
High-service standpipe and grounds		17,000.00
Department building and grounds		32,000.00
High-service pumps and boilers		10,000.00
Fuel for high-service boilers		12.85
Pump and boiler sundries		16.70
Department building furniture		902.25
Office furniture		1,341.55
Books, stationery, etc.		200.00
Tools		2,565.23
Horses		500.00
Wagons, sleighs, etc.		760.00
Harnesses, robes, etc.,		235.00
Hay and grain		15.50
Stable equipment		120.18
Main pipe		13,200.00
Special castings and fittings		3,384.17
Gates and boxes		960.60
Pig lead		8.00
Service pipe and fittings		1,423.21
Meters and fittings		749.75
		<hr/>
		\$785,394.99

The Board is also in control of 61 miles, 3,536 feet of service pipes, with 9,806 connections, the cost of which has been paid to the city by the owners of properties connected to the water mains.

REPORT OF THE ENGINEER OF THE PUMPING STATION.

HIGH SERVICE PUMPING STATION,
SOMERVILLE, Dec. 31, 1898.

TO THE BOARD OF WATER COMMISSIONERS.

Gentlemen:—The following table shows the work done at the high service pumping station for the year ending December 31, 1898.

Date, 1898.	No. of Days.	No. of Runs.	Pumping Time in Hours.	Gallons of Water Pumped.	Pounds of Coal Burned.	Pounds of Ashes and Clinkers.
January	31	62	227.30	21,984,000	69,100	8,700
February	28	57	426.00	24,552,000	83,440	10,195
March	31	62	236.00	22,056,000	67,350	7,025
April	30	61	226.00	21,480,000	62,625	8,175
May	31	62	227.30	21,336,000	62,075	9,075
June	30	60	249.00	25,632,000	72,350	8,650
July	31	62	250.45	25,872,000	71,725	9,175
August	31	63	228.30	23,088,000	68,495	9,015
September	30	60	249.30	25,128,000	62,825	11,275
October	31	62	234.15	24,312,000	68,625	10,625
November	30	60	281.30	24,000,000	72,650	9,825
December	31	64	349.30	28,320,000	93,625	12,075
Total . .	365	735	3,186.00	287,760,000	854,885	113,810

No general repairs have been necessary. The air pump has been overhauled and the vacuum improved. The boilers have been thoroughly cleaned and inspected; new fire-brick linings have been laid, and the entire apparatus is in good condition.

SIDNEY E. HAYDEN,

Engineer.

REPORT
OF THE
BOARD OF HEALTH.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1899.

Referred to the Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 11, 1899.

Referred to the Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE BOARD OF HEALTH,
CITY HALL, January 2, 1899.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL.

Gentlemen :— We respectfully submit the following as the twenty-first annual report of the Board of Health, in which is presented a statement, tabulated and otherwise, of the sanitary condition of the city and the business of the Board for the year ending December 31, 1898 :—

ORGANIZATION.

Chairman, ALLEN F. CARPENTER.

Clerk, WILLIAM P. MITCHELL.

Agent, CALEB A. PAGE.

NUISANCES.

A record of nuisances abated during the year, in compliance with notices issued by the Board, or under the Board's direction, is presented in the following table :—

NUISANCES ABATED IN EACH DISTRICT IN 1898.

(SEE DESCRIPTION OF DISTRICTS IN LATTER PART OF THIS REPORT.)

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total.
Population (estimated).	7,431	5,891	5,023	5,928	11,555	6,468	7,044	3,210	4,292	3,158	60,000
Calf kept in cellar				1							1
Cellar damp	4	3	4	2	1	2	1		1		18
Cesspool offensive	1		1						2		6
Cow barn offensive	1		3	4		1				1	10
Dogs kept in cellar	1			2					1		4
Drainage defective	3	5	1	4	2	3	4	1	2	1	26
Drainage emptying into cellar	2	3		2			1				8
Drainage emptying on surface	4	1	3		1	2		1	1		13
Drainage not ventilated	1	3			1	3	2			2	12
Drain-pipe defective	4	2		5	2	4	1		2	3	23
Fish offal	2		2							1	5
Goats kept without license				1				1			2
Hennery offensive	4	2	3	2	1	3		1	1	1	18
Hens kept in cellar	1		2	3		2		2	1		11
Manure exposed and offensive	4	2	3	4	1	3	2	2	1	2	24
Manure pit defective	3	2	4	5	2	5	4	3	4	3	35
Offal on land	1		1	1		1	1	2		1	8
Offensive odor in and about dwellings	2			1				1		1	5
Pigeons kept in cellar		1									1
Pigs kept without license	3	1		1	1						6
Premises filthy	2		1	1		2	1			1	8
Premises untidy	23	2	12	4		13	2	2			58
Privy-vault defective	6	1	1	8	2	2			1	1	22
Privy-vault offensive	73	12	10	14	13	16	13	12	14	14	194
Rubbish in cellar	3		1	2		2	2	1		1	12
Sewage flowing under floor	2	1	1			1	1		1		7
Sewage-gas in house	4	3	3	2	1	2	2	1	2	1	21
Slops thrown on surface	3	1	2	4		1	2	1	2	3	19
Stable infected with glanders	13	2	6	3	4	4	7			2	41
Stable and stable premises filthy and offensive	4	3	5	7	2	4	3	2	2	3	35
Stable without drainage	10	2	3	4	3	5	2	1	3	4	37
Stagnant water on surface	2	3	2	2	3	2	2	2	3	4	25
Waste-pipe defective	13	5	6	8	4	6	7	4	8	5	66
Waste-pipe not trapped	8	2	1	1	2	2	2	4	3	2	27
Water-closet defective	5	2	1	1	2	3	1		4	2	21
Water-closet insufficiently supplied with water	3			2		1		2		1	9
Water-closet offensive	8	3	4	5	1	4	1	3	1	2	32
Water in cellar	2	2		1			1				6
Water under stable	1			2						1	4
Total	229	69	86	109	49	99	65	49	60	65	880

Number of nuisances abated	880
Number of nuisances referred to Board of 1899	120
Number of nuisances complained of	1,000
Number of complaints (many covering more than one nuisance)	518
Number of notices mailed	509
Number of notices served by constables	23

In addition to the above, one hundred and thirty-seven dead animals have been removed from the public streets, and many nuisances have been abated on verbal notice from the agent, without action by the Board, of which no record has been made.

GLANDERS.—Forty-one cases of glanders have occurred during the year. Prompt action was taken in every case, and the horses have been killed. We renew our request of previous years, that owners of horses notify the Board, or its agent, at once, on the appearance of this disease. We renew our request to the Committee on Highways, that the committee have the watering troughs cleaned out frequently, in order to prevent the spread of this disease.

PERMITS.

The record of permits to keep cows and swine, to collect grease, and to remove manure, is as follows : —

Cows.—Thirty applications were received for permits to keep one hundred and seventy-eight cows. Twenty-seven permits to keep one hundred and seventy cows were granted, and three permits were refused.

SWINE.—Thirteen applications were received for permits to keep twenty-four swine. Eleven permits were granted to keep twenty-two swine, and two permits were refused. The fee is one dollar for each swine.

GREASE.—Eleven applications were received for permits to collect grease, nine of which were granted. The fee is two dollars. One of the parties licensed resides in Somerville, two in Charlestown, three in Cambridge, two in Boston, and one in Malden.

MANURE.—Seven permits were issued during the year for the carting of manure through the streets of the city in the daytime, between May 1 and November 1. All permits issued for the removal of manure from the stables in the city in the daytime, or for carting through the streets of the city, remain in force until revoked. No fee is charged for these permits.

PEDDLERS.

One hundred and sixty-seven certificates of registration were issued to hawkers and peddlers during the year,—a

decrease of thirty-two from the year 1897. These certificates are issued under Ordinance number thirty of the Revised Ordinances of 1891, and are good for an indefinite period. All peddlers are required to present their vehicles for inspection by the agent of the Board at the Police Station, the first Monday of each month, so that he may see that they are kept in a clean condition and are properly marked with the owner's name and number.

ASHES.

During the past year the ashes have been removed by this department with teams owned and men hired by the city, under a competent superintendent, who also superintends the collection of house offal.

Thirteen men, with nine horses and seven carts, are employed in the work.

The number of loads collected each month during the year was as follows :—

January	2,099
February	1,733
March	2,187
April	2,056
May	2,427
June	1,817
July	1,559
August	1,552
September	1,606
October	1,738
November	1,796
December	2,634
	<hr/>
Total	23,204

The collections are made weekly, as follows :—

Monday	in district one.
Tuesday	“ two.
Wednesday	“ three.
Thursday	“ four.
Friday	“ five.
Saturday	“ six.

Materials for removal must be free from filth and offal, must be placed in barrels or boxes, and must be set on the outer edge of the sidewalk before seven o'clock in the morning of the day when the collection is to be made.

The districts were established by the Board of Health of 1890, and are bounded as follows :—

DISTRICT 1. — Beginning at the Boston line and bounded by the northeasterly line of Pearl street, the southeasterly line of Walnut street, the northeasterly line of Highland avenue, the easterly line of Medford street, the northerly line of Washington street, the northwesterly line of Prospect street, the northerly line of Concord avenue, extended across Beacon street to the Cambridge line, and by the Cambridge and Boston lines.

DISTRICT 2. — Beginning at the Boston line and bounded by the northeasterly line of Pearl street, the southeasterly line of Walnut street, the northeasterly line of Broadway, the northeasterly line of Main street, and by the Medford and Boston lines.

DISTRICT 3. — Beginning at the Medford line and bounded by the southeasterly line of Cedar street, the northeasterly line of Highland avenue, the southeasterly line of Walnut street, the northeasterly line of Broadway, the northeasterly line of Main street, and by the Medford line.

DISTRICT 4. — Beginning at the intersection of Medford and Washington streets, and bounded by the northerly line of Washington street, the northwesterly line of Prospect street, the northeasterly line of Somerville avenue, the southeasterly line of School street, the northeasterly line of Summer street, the southeasterly line of Cedar street, the northeasterly line of Highland avenue, and the easterly line of Medford street to Washington street.

DISTRICT 5.—Beginning at the intersection of Prospect street and Somerville avenue, and bounded by the northwesterly line of Prospect street, the northerly line of Concord avenue, prolonged to the Cambridge line, the Cambridge line (extending westwardly), the southeasterly lines of Oxford, Mossland, and Cedar streets, the northeasterly line of Summer street, the southeasterly line of School street, and the northeasterly line of Somerville avenue to Prospect street.

DISTRICT 6.— All of that portion of the city lying west of the southeasterly lines of Cedar, Mossland, and Oxford streets.

It will be seen by these descriptions that the side lines of streets are used as boundaries, and not the middle lines; so that ashes are removed from the sidewalks on both sides of a street on the same day.

HOUSE OFFAL.

The house offal has been collected by the city during the year under the same system that has been employed in the removal of ashes, and which was adopted in both departments in the year 1895.

The force employed consists of eighteen men, with ten horses and nine wagons.

The following table, showing the number of loads collected each month during the year, may be of interest :—

January	418
February	368
March	392
April	416
May	416
June	416
July	446
August	516
September	510
October	511
November	498
December	502
Total	<hr/> 5,409

NIGHT SOIL.

There are but few privies remaining in the city, and it is the expectation of the Board that most of these will be removed during the coming year.

STABLES.

The following is a copy of an Act of the Legislature of 1895, Chapter 213, relating to the licensing and regulating of stables in cities, as amended by Chapter 332 of the Acts of 1896, and Section 3 of Chapter 300 of the Acts of 1897.

SECTION 1.—No person shall hereafter erect, occupy, or use for a stable, any building in any city whose population exceeds twenty-five thousand, unless such use is licensed by the Board of Health of said city, and in such case only to the extent so licensed.

SECT. 2.—The foregoing provisions shall not be construed to prevent any such occupation and use which may be authorized by law at the time of the passage of this act, to the extent and by the person or persons so authorized; provided, however, that the Board of Health of any such city may make such regulations or orders respecting the drainage, ventilation, number of animals, and the storage and handling of manure in any existing stables in their respective cities as in their judgment the public health requires.

SECT. 3.—Whoever violates the provisions of this act, or of any regulation or order made pursuant thereto, shall be punished by a fine of five dollars for each day such offense continues; and any court having equity jurisdiction may restrain any such erection, occupation, or use contrary to the provisions of this act.

The number of petitions received for licenses to erect stables under the above law was fifty-eight.

Number granted	35
Number refused	23

DEATHS.

There were eight hundred and eighty deaths and sixty-two stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of twenty-one.

Deaths at Somerville Hospital during the year	20
Deaths at Home for Aged Poor	58

DEATHS BY AGES.

AGES.	Total.	Male.	Female
Under one	195	106	89
One to two	35	17	18
Two to three	18	8	10
Three to four	8	6	2
Four to five	3	2	1
Five to ten	14	6	8
Ten to fifteen	11	7	4
Fifteen to twenty	10	8	2
Twenty to thirty	75	33	42
Thirty to forty	55	24	31
Forty to fifty	68	35	33
Fifty to sixty	85	47	38
Sixty to seventy	131	71	60
Seventy to eighty	106	52	54
Eighty and over	66	21	45
	880	443	437

MORTALITY IN SOMERVILLE IN 1898.—*Concluded.*

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
LOCAL DISEASES.													
DIGESTIVE ORGANS.													
Gastritis	1			1	1		1	2		1		1	8
Peritonitis	1				1		1				1	1	5
Hepatitis			1							1			2
Jaundice			1	1									2
Liver disease		1	1		1	1		1		1			6
Gastric ulcer				1				1					2
Enteritis		1	1				2	7	3		1		15
Hæmatemesis	1			1		1		1					4
Hernia		1								1		1	3
Appendicitis								1	1				2
Cirrhosis		1		1		1	1						4
GENITO-URINARY ORGANS.													
Bright's disease		1		3	3	2	2		1		1	2	15
Diabetes		1				2		2	1	1	2	2	11
Cystitis				1		1						1	3
Nephritis		2	3	2	1				2		3	2	15
Childbirth				1		2		1		1			5
Eclampsia				1		1					1	1	4
INTEGUMENTARY SYSTEM.													
Abscess	1		1	1			2				1		6
Pemphigus			1			1						1	3
Eczema				1			1						2
Ulcer		1	1									1	3
DEVELOPMENTAL DISEASES.													
OF CHILDREN.													
Inanition	1	2	3		1		4	3	5	2	2	3	26
Premature birth and congenital debility	2	2	3	3	4	4	3	4	5	5	3	2	40
OF OLD PEOPLE.													
Old age	3	4	6	2	3	3	1		3	3	1	2	31
VIOLENT DEATHS.													
Rupture of Liver						1							1
Railroad			1					1	1		1		4
Suicide							1	1	1		1	1	5
Accidental poisoning	1										1		2
Asphyxia	1		1				1						3
Accidental drowning								2					2
Burning			1					1					2
Alcoholism							1						1
Concussion of brain	1	1				1		1					4
Fracture of hip		1									1	1	3
Fracture of skull						2		2				1	5
Shock from electric wire		1											1
Total	64	65	79	75	69	64	59	112	73	54	68	98	880
Stillborn	5	6	6	8	9	4	6	4	3	7	2	2	62

Population (estimated) 60,000
 Death rate per thousand 14.6

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

This Board has adjudged that the diseases known as smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, typhoid fever, and cholera are infectious, or contagious, and dangerous to the public health and safety within the meaning of the statutes. Physicians are required to report immediately to the Board every case of either of these diseases coming under their care, and postal cards conveniently printed and addressed are supplied to them for the purpose.

There have been but few cases of contagious disease this year, as compared with former years. The general use of anti-toxine by the physicians and of culture tubes provided and placed in central localities by the Board, and the care exercised by our agent in the fumigation of infected premises have, we believe, been important factors in decreasing the number of cases.

SCARLET FEVER.— Eighty cases of scarlet fever have been reported during the year, none of which resulted fatally. In 1897 there were one hundred and fifty-eight cases, six of which resulted fatally.

DIPHTHERIA.— Seventy-four cases of diphtheria have been reported during the year, ten of which were fatal. In 1897 there were three hundred and twenty-four cases, forty-four of which proved fatal. Warning cards are used in dealing with scarlet fever and with diphtheria, and the premises are fumigated by the use of the Formaldehyde gas regenerator, immediately after the termination of a case. An inspection is made by the agent of the Board of the premises where diphtheria is reported, and all sanitary defects discovered are required to be remedied as soon as possible.

TYPHOID FEVER.— Fifty-four cases of typhoid fever have been reported during the year, eleven of which have proved fatal. In 1897 there were fifty cases reported, eleven of which were fatal.

TYPHUS FEVER, SMALLPOX, CHOLERA.— No cases of typhus fever, smallpox, or cholera have been reported the past year.

Number of houses placarded	154
Premises disinfected by agent	176

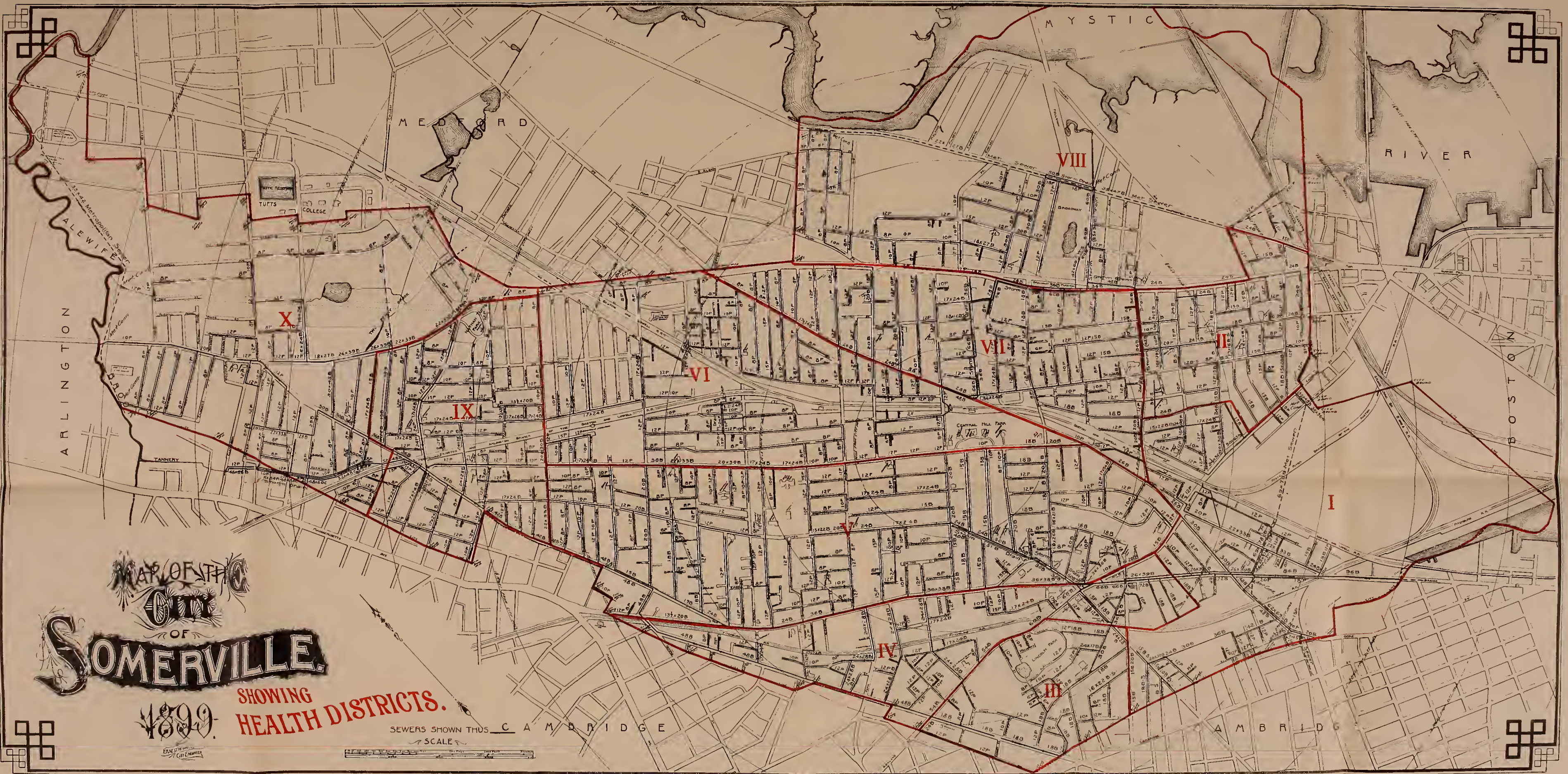
Tables.—The prevalence of scarlet fever, diphtheria, and typhoid fever in the city during the several months of the year 1898 is shown by the following table, and in the table next following is given the number of deaths from these three diseases, by months, during the last ten years :—

SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED IN 1898.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.
January	11	..	..	15	2	13.3	2	2	100
February	4	..	..	1	..	..	2	2	100
March	8	..	..	8	..	..	..	..	..
April	16	..	..	3	1	33.3	3	2	66.6
May	13	..	..	7	1	14.3	4	1	25
June	8	..	..	3	..	..	3	1	33.3
July	2	..	..	10	..	..	..	..	..
August	1	..	..	5	3	60	8	1	12.5
September	3	..	..	3	..	..	16	..	..
October	4	..	..	8	..	..	5	1	20
November	5	..	..	7	2	28.5	6	..	..
December	5	..	..	4	1	25	5	1	20
Total	80	..	..	74	10	13.5	54	11	20.3

DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN THE LAST TEN YEARS.

MONTHS.	SCARLET FEVER.								DIPHTHERIA.								TYPHOID FEVER.													
	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
January . . . . .	..	..	..	1	7	8	..	..	..	..	1	2	2	2	2	4	12	..	..	..	2	..	..	1	..	..	2	..	..	2
February	1	2	..	..	3	5	..	..	..	..	2	..	..	1	3	1	5	2	..	..	..	1	..	2	..	..	1	..	..	2
March	1	1	3	..	7	2	1	2	..	..	4	..	..	2	4	6	3	4	..	..	..	1	..	..	..	..	1	1	..	..
April . . . . .	..	..	2	..	3	1	..	2	..	..	2	1	1	2	2	1	6	5	5	1	1	1	2	2	..	1	..	2	1	2
May . . . . .	..	1	4	..	7	..	..	..	..	..	6	1	1	1	2	3	4	4	7	1	1	1	2	2	..	2	..	1	1	1
June	1	1	..	..	4	..	..	..	..	..	4	..	..	..	..	2	1	..	..	1	1	1	2	..	..	1	1	2	..	1
July	1	..	1	..	4	1	..	2	..	..	1	4	1	..	1	2	5	1	..	..	..	2	..	1	..	1	1	2	..	..
August . . . . .	..	..	..	..	3	1	..	..	..	..	1	1	..	..	4	3	2	7	3	3	2	1	1	1	3	1	2	2	2	1
September . . . . .	..	..	2	..	1	..	..	..	..	..	1	3	1	..	1	2	2	7	..	..	2	1	2	4	2	2	..	6	2	..
October	1	..	1	..	3	2	..	..	..	..	2	3	3	..	1	4	3	1	5	..	1	1	2	3	3	..	4	3	2	1
November	2	..	..	9	7	..	..	..	..	..	1	3	4	1	2	5	4	7	8	2	..	1	3	..	2	2	..	5	1	..
December . . . . .	..	1	3	7	2	1	..	..	..	..	5	2	3	..	1	8	6	1	1	..	..	..	..	..	2	2	1	1	..	1
Total	7	5	2	14	19	5	17	5	6	0	28	21	18	8	11	28	43	54	44	10	7	10	11	11	13	13	10	26	11	11



MAP OF THE
CITY
OF
SOMERVILLE.

SHOWING
HEALTH DISTRICTS.

1899

SEWERS SHOWN THUS C A M B R I D G E
SCALE

EDWIN S. COLEMAN
CITY ENGINEER

DISTRICTS.

The accompanying map shows the boundaries of the ten health districts into which the city was divided by the Board of Health of 1878 ; also the locations of common sewers.

A record has been kept from year to year of the number of deaths, the death rate per thousand, the prevalence of dangerous diseases, and the number of nuisances abated in these several districts, and is continued in the following tables, and in the table near the beginning of this report.

The estimated population in the several districts was originally based on the number of assessed polls in each, and upon the population of the entire city ; the ratio of polls to population being presumed to be the same in all the districts. Substantially the same method of estimating the population has been continued, the census of every fifth year being taken as a basis for calculation.

The number of dwellings and of assessed polls, May 1, 1898, has been obtained from the assessors' books.

TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH IN SOMERVILLE IN 1898 WITH THE NUMBER AND RATE IN EACH DISTRICT.

DISTRICTS.	PNEUMONIA.		HEART DISEASE.		PHTHISIS.		CHOLERA INFANTUM.		MENINGITIS.	
	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.
I.	19	2.56	6	0.81	15	2.02	16	2.15	10	1.35
II.	7	1.19	8	1.36	6	1.02	3	0.51	3	0.51
III.	7	1.39	3	0.60	7	1.39	7	1.39	5	0.99
IV.	6	1.01	5	0.84	10	1.69	4	0.67	10	1.69
V.	17	1.47	18	1.56	12	1.04	5	0.43	5	0.43
VI.	7	1.08	4	0.62	7	1.08	8	1.23	4	0.62
VII.	4	0.57	10	1.40	6	0.85	3	0.43	2	0.28
VIII.	4	1.25	4	1.25	2	0.62	.	.	1	0.31
IX.	5	1.16	10	2.33	4	0.93	3	0.70	2	0.47
X.	3	0.95	3	0.95	1	0.32	2	0.63	1	0.32
Total	79	1.32	71	1.18	70	1.17	51	0.85	43	0.72

TABLE OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN EACH DISTRICT IN 1898.

DISTRICTS.	SCARLET FEVER.				DIPHTHERIA.				TYPHOID FEVER.			
	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.
I.	10	.	1.35	.	8	1	1.08	0.13	3	.	0.40	.
II.	5	.	0.85	.	8	1	1.36	0.17	6	2	1.02	0.34
III.	7	.	1.39	.	11	3	2.19	0.60	2	2	0.36	0.36
IV.	10	.	1.69	.	6	.	1.01	.	5	.	0.84	.
V.	16	.	1.38	.	8	.	0.69	.	12	2	1.04	0.17
VI.	6	.	0.93	.	7	1	1.08	0.15	5	.	0.77	.
VII.	8	.	1.14	.	17	3	2.41	0.43	6	3	0.85	0.43
VIII.	9	.	2.80	.	4	.	1.25	.	2	1	0.62	0.31
IX.	3	.	0.70	.	4	.	0.93	.	7	1	1.63	0.23
X.	6	.	1.90	.	1	1	0.32	0.32	6	.	1.90	.
Total	80	.	1.33	.	74	10	1.23	0.17	54	11	0.90	0.18

RATES PER THOUSAND OF POPULATION OF CASES OF SCARLET FEVER, DIPHtherIA AND TYPHOID FEVER REPORTED, AND OF DEATHS FROM THE SAME, IN THE LAST SEVEN YEARS.

Districts.	1892.			1893.			1894.			1895.			1896.			1897.			1898.			Average for Seven Yrs.		
	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.
I.	6.43	0.83	0.95	8.86	1.13	1.36	13.98	1.44	1.15	4.47	5.19	0.86	1.12	11.96	1.40	4.29	8.74	1.39	1.35	1.08	0.40	5.79	4.34	1.07
	0.36	0.12	0.12	0.57	0.23	0.11	2.73	0.57	0.14	0.86	1.04		0.28	2.25		0.28	1.53	0.42	0.13		0.73	0.84	0.11	
II.	9.75	0.49	0.37	4.07	0.93	1.04	4.45	1.30	0.74	2.10	4.27	1.86	0.72	10.73	1.61	3.36	7.07	0.53	0.85	1.36	1.02	3.61	3.74	1.02
	0.37	0.24			0.23	0.47		0.18	0.18	0.19	1.11	0.74		1.25	0.72	0.18	0.53	0.36		0.17	0.34	0.11	0.53	1.40
III.	11.38	1.89	0.95	9.58	0.79	1.59	11.98	4.44	1.33	5.32	7.77	1.33	1.49	5.97	1.07	3.77	6.27	0.42	1.39	2.19	0.36	6.42	4.19	1.01
	0.63	0.95	0.31	0.53	0.27		1.99	1.33		0.22	0.66			0.21	0.43	0.21	1.05			0.60	0.36	0.51	0.72	0.16
IV.	5.19	0.89	0.36	5.70	0.35	0.34	14.37	3.73	0.74	5.41	5.60	1.49	2.14	7.32	1.97	3.34	3.51	1.04	1.69	1.01	0.84	5.41	3.20	0.97
	0.36	0.18		0.86		0.17	2.24	1.49	0.18	0.74	1.68	0.37		1.25	0.36		0.71	1.17				0.60	0.76	0.18
V.	7.78	1.02	3.83	5.47	1.13	1.71	5.75	2.49	1.34	4.13	6.05	0.48	2.24	6.09	1.16	1.42	3.27	0.62	1.38	0.69	1.04	4.02	2.96	1.45
	0.34	0.11	0.56	0.11	0.23	0.57	0.38	0.67	0.38	0.09	1.25	0.29		0.72	0.72	0.09	0.35	0.18			0.17	0.14	0.48	0.41
VI.	14.57	2.08	4.16	6.26	1.56	1.25	9.85	0.94	0.94	3.03	2.08	0.57	2.84	7.18	1.00	2.71	7.05	0.95	0.93	1.08	0.77	5.74	3.14	1.38
			0.52	0.62	0.31		0.75		0.18	0.19	0.38			0.67		0.17	0.95	0.17		0.15		0.25	0.35	0.12
VII.	9.17		1.46	4.59	1.39	0.79	4.69		0.62	2.81	3.44	1.09	3.45	6.87	1.05	2.01	7.55	1.02	1.14	2.41	0.85	3.98	3.09	0.98
	0.21		0.21	0.19	0.19	0.19	0.15		0.31	0.31	0.31		0.15	0.75	0.45		0.88	0.14		0.43	0.43	0.14	0.37	0.25
VIII.	4.36	0.71		5.68	1.13	1.70	8.29	4.56	0.82	4.52	2.49	1.66	8.44	11.00	2.93	4.51	4.19	1.61	2.80	1.25	0.62	5.60	3.62	1.33
				0.57		0.65	0.41	0.82	0.41				0.38	1.83	1.10		0.64	0.32			0.31	0.19	0.47	0.40
IX.	7.79	0.78	2.73	5.59	1.75	2.73	6.35	1.38	1.92	2.77	2.49	1.65	1.77	3.54	2.78	1.69	4.56	0.72	0.70	0.93	1.63	3.81	2.20	2.02
			0.78				0.27		0.55		0.28	0.28	0.25		0.51		0.28				0.23	0.07	0.08	0.34
X.	3.59	0.90	1.80	8.89	2.73		6.49	2.59	1.73	8.23	4.76	2.60	6.43	6.03	3.22	1.04	2.43	0.36	1.90	0.32	1.90	5.22	2.82	1.66
				1.36	1.37					0.43				0.41	0.81		0.69				0.32	0.26	0.40	0.12
City.	8.06	0.85	1.61	6.28	1.12	1.18	8.59	2.09	1.10	4.12	4.68	1.16	2.53	7.68	1.57	2.72	5.51	0.86	1.33	1.23	0.90	4.80	3.31	1.20
	0.30	0.17	0.24	0.38	0.22	0.26	0.96	0.53	0.24	0.32	0.81	0.19	0.09	0.96	0.46	0.11	0.76	0.19		0.17	0.18	0.31	0.52	0.25

UNDERTAKERS.

The duty of issuing licenses to undertakers has, by Section 7, Chapter 437, Acts of 1897, been transferred to Boards of Health.

[Acts of 1897, Chapter 437, Section 7.]

“Section 7. The boards of health of cities and towns shall, on or before the first day of May in each year, license a suitable number of undertakers who can read and write the English language, to take charge of the funeral rites preliminary to the interment, removal, or cremation of a human body. Such licenses shall be issued under such terms and upon such conditions as the board of health may prescribe, and may be revoked at any time by the board when such terms or conditions or any requirements of law relative thereto have been violated by the undertaker ; provided, however, that an undertaker so licensed shall have the right to act thereunder in any city or town in the Commonwealth.”

Under the above law, sixteen undertakers received license.

REGULATIONS.

The following is a revision of the regulations of this Board, made during the past year.

REGULATIONS OF THE BOARD OF HEALTH.

IN BOARD OF HEALTH, CITY OF SOMERVILLE,
May 2, 1898.

WHEREAS, It is the opinion of the Board of Health of the city of Somerville, and it does hereby adjudicate, that the following regulations are necessary for the public health and safety, respecting nuisances, sources of filth, and causes of sickness, and for the suppression and the prevention of the spread of contagious diseases among domestic animals within the city of Somerville ; now therefore it is

Ordered, That the following regulations, designated, respectively, as Chapters I. to XV., both inclusive, be and hereby are made and adopted, and all regulations previously adopted by this Board are hereby repealed.

CHAPTER I.

CONTAGIOUS DISEASES.

SECTION 1. *Diseases adjudged dangerous to Public Health.* — It is adjudged that the diseases known as smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, typhoid fever, and cholera, are infectious, or contagious, and dangerous to the public health and safety, and may easily be contracted from persons or apartments, or at funerals from dead bodies which may have been infected by such diseases, and that the following provisions of this chapter are necessary for the public health and safety in regard to said diseases.

SECT. 2. *Householder to give Notice.*—When a householder knows that a person within his family or house is sick of smallpox, scarlet fever, diphtheria, membranous croup, measles, typhus fever, typhoid fever, or cholera, he shall immediately give notice thereof to the Board of Health.

SECT. 3. *Physician to give Notice.*—When a physician knows that a person whom he is called to visit is infected with smallpox, scarlet fever, diphtheria, membranous croup, measles, typhus fever, typhoid fever, or cholera, he shall immediately give notice thereof to the Board of Health.

SECT. 4. *Pupils and others not to attend or visit School.*—No pupil or other person shall attend or visit any school in the city while any member of the household to which such pupil or other person belongs, or any occupant of the dwelling in which he or she resides, is sick of smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, or cholera, or during a period of two weeks after the death, recovery, or removal of such sick person; and any pupil coming from such household shall be required to present to the teacher of the school which such pupil desires to attend, a certificate from the attending physician or Board of Health of the facts necessary to entitle him or her to admission, in accordance with this regulation.

SECT. 5. *Person who has visited Dwelling not to attend or visit School.*—No person who has visited a dwelling in which there was at the time a case of smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, or cholera, shall attend or visit any school in the city until after the expiration of two weeks from the time when such visit was made.

SECT. 6. *Dwelling to be labelled.*—Every dwelling where a case of smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, or cholera is known to exist shall be immediately conspicuously labelled at its entrance with a card bearing the name of the disease there existing, such card there to remain until removed by said Board, or its agent, or by permission of said Board. The Board of Health may, in special cases, permit such card to be placed upon interior apartments only.

SECT. 7. *Label not to be removed or Persons to visit Dwelling.*—No person shall, without permission from the

Board of Health, remove from any dwelling in said city any card affixed thereto by said Board, or its agent, or any other person, indicating that either of the diseases mentioned in the preceding section exists in said dwelling ; nor shall any person obliterate or deface such card ; nor shall the occupant of any dwelling to which such card may be affixed permit the same to be removed, obliterated, or defaced without immediately notifying said Board ; nor shall any person, except members of the immediate family occupying the same, and those whose business calls them there, visit, or be permitted by the householder, or any other occupant thereof, to visit, a dwelling labelled with a card as aforesaid, without the written permission of said Board.

SECT. 8. *Property not to be removed, or Residence changed, or Library Books taken.* — No person shall remove or permit to be removed from any house or apartment upon which a card has been placed, as provided in section three, any clothing, books, or other property without a permit from the Board of Health ; nor after a house is established or considered as a hospital under the provisions of chapter eighty of the Public Statutes, shall any occupant of such house take up a residence elsewhere without such permit. No public or circulating library book shall be taken into any house or apartment whereon a card has been placed, as provided in section six, before the authorized removal of said card.

SECT. 9. *No public Funeral.* — No public funeral, and no funeral attended by persons other than members, occupying the dwelling in which the funeral is held, of the immediate family of which the deceased was a member, or those whose business calls them there, shall be held over the remains of any person having died of smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, or cholera, except by written consent of the Board of Health, and under such regulations as said Board may prescribe ; and every householder, undertaker, or other person who shall attend or permit any funeral held in violation of the foregoing provisions of this section shall be liable to the penalty provided by law for violation of any regulation of the Board of Health. No person, except members of the immediate family of which the deceased was a member, and those whose business

calls them there, shall, without the written permission of said Board, be admitted to the house where such death has occurred until after the interment has taken place and the premises have been fumigated.

SECT. 10. *Undertaker to prepare Body and notify Board of Health, and Burial to be made immediately.* — In case of any person dying of smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, or cholera, the undertaker, his assistant or agent, shall immediately, upon the death of such person, or immediately upon his being notified of the death or called upon to perform any services, wrap the entire body, including the face, in a sheet saturated with a solution of one fifth of one per cent. of bichloride of mercury, and shall immediately place it in a tight coffin or casket, which shall be securely fastened and the lid thereof sealed in two places with sealing wax; and such coffin or casket shall not thereafter be opened by any person without the written permission of the Board of Health. He shall notify the Board of Health, or its agent, of the time when the body is to be removed, and shall sign a certificate, containing a true statement of the facts, that he has complied with the foregoing provisions of this section, and shall make oath to the truth of such certificate; and he, and every other person having charge or custody or the right of disposal of the body, shall cause the burial to take place immediately, and in all cases within not more than eight hours after the time of death, unless further time shall be allowed by the said Board of Health. No permit either for the burial or removal of the body shall be issued until such sworn certificate is filed with the clerk of the Board of Health, who shall thereupon, for and in behalf of said Board, certify on such permit as follows: —

Satisfactory evidence having been furnished, it is hereby certified that the body has been so encased and prepared as to preclude any danger of communicating the disease (here state disease) to others by its transportation.

Board of Health of Somerville,

by _____ Clerk.

Such body shall not be placed in a receiving tomb without permission therefor, in writing, from the Board of Health.

SECT. 11. *Patient or Body not to be carried in public Carriage.*—No owner, driver, or other person, having charge of any hackney carriage or other vehicle used as a public conveyance, shall receive, or permit to be placed, or convey in any manner, in or upon said carriage or other vehicle, any person sick or infected with smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, or cholera, or the body of any person who has died of either of said diseases, except by written consent of the Board of Health and under such regulations as said Board may prescribe.

SECT. 12. *Dwelling not to be visited until fumigated.*—Upon the death, removal, or recovery of a person sick of smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, or cholera, no person except members of the immediate family of which such sick person was a member, and those whose business calls them there, shall thereafter visit, or be permitted by the householder or any other occupant thereof to visit, the dwelling in which such person was sick as aforesaid, until such dwelling shall have been fumigated or disinfected by the Board of Health, or its agent, or to their or his satisfaction.

SECT. 13. *Permit for Burial beyond City Limits.*—In all cases of death from any disease named in section nine, where burial is contemplated beyond the city limits, the undertaker shall apply at once for the necessary permit and certificate, and remove the body immediately from the city.

SECT. 14. *Certificate to be shown when conveying Body through City.*—All undertakers or persons in charge of the remains of any person passing through the city shall, whenever requested, exhibit the certificate required by chapter 437, section six, of the acts of 1897.

CHAPTER II.

DEPTH OF GRAVES AND HOURS FOR BURIAL.

SECTION 1. *Depth of Graves.*—No person shall inter or cause to be interred the body of any dead person in a grave less than three feet deep from the surface of the ground surrounding the grave to the top of the coffin.

SECT. 2. *Hours for Burial.*—No person shall bury or inter, or cause to be buried or interred, the body of any dead person at any other time of the day than between sunrise and sunset, except in accordance with a permit from the Board of Health. No person shall open a grave or remove the body of a dead person or its remains from a grave or tomb, except in accordance with a permit from the Board of Health.

CHAPTER III.

STABLES AND THE REMOVAL OF MANURE.

SECTION 1. *Construction of New Stables.*—Every stable hereafter erected in this city shall have a manure pit constructed of brick or stone, laid in cement, with a concrete floor at least three inches thick, and so situated as to allow the manure to be loaded inside the stable. The drainage, lighting, ventilation, air space, and water supply of such stable shall be satisfactory to this Board.

SECT. 2. *Washing of Carriages and Horses, care of Stables and Yards, and accumulation of Manure.*—The owners or occupants of livery or other stables within the city of Somerville shall not wash or clean carriages or horses, or cause them to be washed or cleaned, in the streets or public ways; they shall keep their stables and stable yards clean, and not allow more than two cords of manure to accumulate upon their premises at any one time, and no manure shall be allowed to accumulate or remain uncovered outside of the stable building. No cow manure shall be kept except in a properly drained stable or barn cellar, and no more than one cord shall be allowed to accumulate.

SECT. 3. *Removal of Manure at certain times, without Permit prohibited.*—No person shall remove any manure, or cause or suffer the same to be removed, between the first day of May and the first day of November, except between twelve o'clock at night and two hours after sunrise, without a written permit from the Board of Health.

SECT. 4. *Manner of removing Manure.*—No manure shall be removed or carried through the streets of this city except in a tight canvas-covered vehicle, with the covering so

secured to the sides and ends of the vehicle as to prevent the manure in process of removal from being dropped or left in any street or way of the city. No manure shall be loaded into a vehicle in or upon any street, lane, or passageway, nor upon or across any sidewalk, without a written permit from the Board of Health, and all the conditions of such permit shall be strictly complied with.

CHAPTER IV.

PRIVY-VAULTS, CESSPOOLS, AND DRAINS.

SECTION 1. *Buildings to be connected with Sewer.*— Every building situated on a public or private street, court, or passageway in this city, in which there is a public sewer, is hereby required by this Board to be connected by a good and sufficient particular drain with such public sewer.

SECT. 2. *Privy-vault not to be connected with Sewer.*— No privy-vault shall be connected with the common sewer by a drain constructed to carry off the liquid contents thereof.

SECT. 3. *Sluice-vaults without proper flush of Water prohibited.*— No sluice-vault, so called, or any form of so-called water-closets, having no flush of water applied at the time of using, shall be constructed on any premises in this city.

SECT. 4. *Privy-vaults not to be constructed without Permit.*— No person shall hereafter construct or establish a privy-vault in this city except by written consent of the Board of Health, and in accordance with such regulations as to materials, manner of construction, location upon lot, and otherwise, as the said Board shall prescribe.

SECT. 5. *Water-closets, Vaults, Privies, Cesspools, and Drains to be cleansed.*— Whenever a water-closet, vault, privy, cesspool, or drain becomes offensive or obstructed, the same shall be cleansed and made free, and the owner, agent, occupant, or other person having charge of the premises on which any water-closet, vault, privy, or drain is situated, shall remove, cleanse, alter, amend, or repair the same within such time after notice in writing to that effect, given by the Board of Health, as shall be expressed in such notice.

SECT. 6. *Not to be emptied except as authorized by the Board of Health.*— No privy-vault or cesspool shall be emptied

except by such parties, in such manner, and at such time as shall be specially authorized by the Board of Health. The owner, agent, or occupant of the premises where any privy-vault or cesspool may be situated shall always be liable for the expense of emptying the same.

SECT. 7. *Carting of Night-soil or other offensive Matter through Streets.*—No person, unless specially authorized by the Board of Health, shall drive any cart or other vehicle containing or used for conveying night-soil or other offensive matter in any street of the city between the hours of 4 A. M. and 10 P. M. during the months of April, May, June, July, August, and September; nor between the hours of 5 A. M. and 9 P. M. during the months of October, November, December, January, February, and March; provided, however, that this regulation shall not be understood to conflict with the regulations of this Board concerning “Stables and the Removal of Manure,” nor to restrict the removal or carting of night-soil in carts such as are used in making such removal by what is commonly known as the “Odorless” process, provided such removal be made or carting done without emitting offensive odors in the streets.

CHAPTER V.

CLEANLINESS OF HOUSES AND PREMISES.

SECTION 1. *Rubbish, etc., to be removed.*—Any person owning or occupying or having charge of any building or premises in or upon which is any dirt, sawdust, soot, ashes, cinders, shavings, hair, manure, oyster, clam, or lobster shells, waste or stagnant water, or any offensive animal or vegetable substance, rubbish or filth of any kind, shall, when ordered by the Board of Health, remove the same within such time as may be stated in the order.

SECT. 2. *Abutters to remove Filth, Rubbish, and stagnant Water from Private Ways.*—No owner or occupant of land abutting on a private street or passageway, and having the right to use such street or passageway, shall suffer any filth, rubbish, or waste or stagnant water to remain on that part of the street or passageway adjoining such land, but shall remove the same whenever ordered by the Board of Health.

SECT. 3. *Privies, Cesspools, etc., to be deodorized.*—The owners or occupants of premises in this city shall deodorize all privies, vaults, sluice-vaults, cesspools, grease traps, urinals, manure bins, stalls, garbage receptacles, or vessels of any nature used to contain or remove any offensive matter, whenever ordered so to do by the Board of Health.

SECT. 4. *Henneries, Dog Kennels, etc., to be kept clean.*—All henneries, dog kennels, and pens for any animals shall be kept clean and free from decaying food, and from filth of any kind. The buildings and pens shall be whitewashed or disinfected and put in such condition as may be ordered by the Board of Health.

CHAPTER VI.

HOUSE OFFAL.

SECTION 1. *How to be kept.*—All house offal and refuse, animal or vegetable substances, shall be placed in suitable water-tight vessels and kept in some convenient place to be removed by the persons duly authorized for that purpose by the Board of Health. Such vessels shall be kept covered and shall not be permitted to become offensive.

SECT. 2. *Not to be removed without Permit or Contract.*—No person shall remove or carry in or through any street, avenue, square, court, lane, place, or alley, within the city, any house offal, or any offensive animal or vegetable substance, unless employed or authorized so to do by the Board of Health, nor in any manner except such as authorized by said Board.

CHAPTER VII.

ASHES, RUBBISH, AND HOUSE DIRT.

SECTION 1. *Removal of, etc.*—Ashes, rubbish, and house dirt to be removed by the city shall be kept entirely free and apart from offal and filth of any kind, and shall be placed in barrels or other suitable vessels on the outer edge of the sidewalk, on such days and at such hours as the Board of Health shall from time to time designate, by notices left at the dwellings or otherwise.

SECT. 2. *Dumping of Ashes and Refuse Materials.* — No person owning or occupying any premises within the limits of the city of Somerville, and no city officer controlling or in charge of city premises, shall cause any ashes or refuse material to be placed thereon, or shall allow such premises to be used as a public dump for ashes, refuse, or other material without a permit from the Board of Health, and only in accordance with such permit.

SECT. 3. *Filling of Premises with Waste, Ashes, or Rubbish.* — Any person owning or occupying any premises within this city, and desiring to fill such premises with dry waste, ashes, or rubbish, shall make written application to the Board of Health, describing the land and the filling material proposed and the sources from which he proposes to obtain the material.

CHAPTER VIII.

DEAD ANIMALS AND OFFENSIVE SUBSTANCES.

SECTION 1. *Not to be thrown upon Ground or into any Body of Water.* — No person shall throw or put into or upon any public or private way, enclosure or grounds, lot of land, dumping ground, flats, or body of water, any dead animal, oyster, clam, or lobster shells, slops, decayed vegetables, fish, refuse animal or vegetable matter, or other offensive substance whatsoever.

CHAPTER IX.

COLLECTING GREASE.

SECTION 1. *Permit for.* — No person shall collect or remove from any dwelling-house or other place in the city any grease, or refuse fatty matter, without first obtaining a permit so to do from the Board of Health, and in all respects complying with the conditions of such permit. All such permits shall expire on the first day of May, annually, and may be revoked at any time by the Board of Health; and no person shall receive such a permit without first paying to the clerk of said Board, for the use of the city, the sum of \$2.00.

CHAPTER X.

GOATS AND SWINE.

SECTION 1. *Permit to keep.* — No person shall keep a goat or swine within the limits of the city without first obtaining a permit so to do from the Board of Health, and in all respects complying with the conditions of such permit. All such permits shall expire on the first day of May, annually, and may be revoked at any time by the Board of Health; and no person shall receive such a permit without first paying to the clerk of said Board, for the use of the city, the sum of \$1.00 for each goat or swine to be kept.

CHAPTER XI.

COWS.

SECTION 1. *Permit to keep.* — No person shall keep or allow to be kept, within the limits of the city, in any building, or on any premises, of which he may be the owner, lessee, tenant, or occupant, more than one cow, without a written permit from the Board of Health. Every person keeping a cow shall cause the place where it is kept to be well ventilated and drained, and kept at all times in a cleanly and wholesome condition. Such permit may be revoked at any time when such revocation shall appear to the Board to be necessary for the public health and safety. All such permits shall expire on the first day of May annually.

CHAPTER XII.

OFFENSIVE TRADES, OCCUPATIONS, AND PRACTICES.

SECTION 1. *Exercise of offensive Trades or Employments.* — The Board of Health hereby prohibits the exercise of the following trades or employments, viz.: those of slaughtering animals, of rendering animal matter, of manufacturing fertilizers, of mixing or storing refuse animal or vegetable substances, of smoking fish or meat, of refining oils, of making egg dressing, varnish, glue, gas, water-gas, gasoline, or any burning fluid, within this city, except at the place or places where such trades or employments are now lawfully established or which may

hereafter be assigned by said Board ; such trades or employments being either nuisances, or hurtful to the inhabitants of said city, dangerous to the public health, attended by noisome and injurious odors, or otherwise injurious to the health of said inhabitants.

SECT. 2. *Curing and storage of Hides, Skins, and Horns.*—No green hides, skins, or horns, shall be cured or stored within the limits of this city, except in accordance with a permit from the Board of Health.

SECT. 3. *Old Rags, old Paper, or other Refuse in a Dwelling.*—No old rags, old papers, or other refuse material shall be brought into or allowed to remain within any building used as a dwelling, if gathered from any place outside such building.

SECT. 4. *Spitting in Street-Cars.*—The Board of Health hereby adjudges spitting in street-cars to be a public nuisance, source of filth, and cause of sickness, and prohibits such spitting upon the floor, platform, or any other part of any street-car.

CHAPTER XIII.

SUPPRESSION OF CONTAGIOUS DISEASES AMONG DOMESTIC ANIMALS.

SECTION 1. *Notice from Person suspecting or knowing of the existence of Disease.*—The written notice required by law to be given to this Board by persons having knowledge of, or good reason to suspect, the existence of any contagious disease among any species of domestic animals within the limits of this city, or that any domestic animal is affected with any such contagious disease, shall designate, as clearly as may be, the suspected animals, the ownership thereof, the disease with which the animals are suspected of being infected, and the locations where such animals are to be found.

SECT. 2. *Owner to isolate Animals and notify Board of Health.*—Every person owning or having control of cattle suspected of being infected with tuberculosis, or horses suspected of being affected with farcy or glanders, or any domestic animals suspected of being affected with any contagious disease, shall cause such animals to be isolated upon his own premises,

and shall at once notify the Board of Health in writing, giving a careful description of each animal and of the place of isolation, and no such animal shall thereafter be removed from the place of isolation or allowed to pass through any public or private street, way, or place, until after said animal has been inspected by the city inspector of animals and provisions, or by a veterinarian appointed by this Board.

SECT. 3. *Agent of Board of Health to cause Animals to be isolated.*— Whenever any agent duly appointed by this Board of Health finds any animal, within the limits of said city, suspected by him of having, or which in his judgment is infected with, any of the contagious diseases as follows, namely: glanders, farcy, contagious pleuro-pneumonia, tuberculosis, Texas fever, foot and mouth diseases, rinderpest, hog cholera, and rabies, such agent shall cause, in the name of this Board, such animal to be kept quarantined or isolated in such place (whether a portion of a building or other place) as he may designate, and may order that such animal shall be so kept isolated by the owner or the person or persons in possession of such animal, and at the cost of such owner or person or persons, and shall not be removed from the place so designated until discharged therefrom by an order of this Board, or its duly authorized agent, or an order issued by the State board of cattle commissioners or any of its members; and all persons are hereby forbidden to remove, or cause to be removed, said animal from the place or enclosure where it has been so quarantined or isolated; or to cause or allow said animal to pass from place to place within said city, or to be or remain in any place in said city, except the place designated as aforesaid; or to drive or transport, or to cause to be driven or transported, any animal contrary to the regulations aforesaid; or to cause or allow any other animal to come in contact with said quarantined animal or to enter the enclosure where such animal is confined.

SECT. 4. *Penalty for Violation.*— Any person disobeying any provision of this chapter or any order made by an agent of this Board of Health as aforesaid, or driving or transporting any animal contrary to the said regulations, shall be punished by a fine not exceeding five hundred dollars or imprisonment not exceeding one year.

CHAPTER XIV.

AGENTS.

SECTION 1. *Clerk.*—The clerk of this Board is hereby made its agent for the purpose of issuing burial permits as authorized by law and these regulations.

SECT. 2. *Inspector of Animals and Provisions.* The inspector of animals and provisions of this city is hereby made an agent of this Board for the purpose of performing the duties required of such agents by chapter thirteen of these regulations.

CHAPTER XV.

PENALTY.

SECTION 1. Whoever violates any of these regulations shall forfeit a sum not exceeding one hundred dollars, except when otherwise provided by law or by these regulations.

At a meeting held December 2, 1898, the Board passed the following regulation :—

WALL DRAPERIES AT FUNERALS.

“The Board of Health hereby adjudges that the use of ‘Wall Draperies’ at funerals is a source of filth and cause of sickness, and hereby orders: That the use of such draperies in any room or place used for a funeral or for the preparation or retention of any human body before or in connection with such funeral be, and hereby is, forbidden.”

APPROPRIATION FOR HEALTH DEPARTMENT, AND
EXPENDITURES THEREFROM.

CREDIT.

Appropriation		\$20,000.00
Town of Amesbury, partial payment on account of care of smallpox patient, 1897	\$421.49	
County of Middlesex, partial payment on account of care of smallpox patient, 1897	426.70	
Commonwealth of Massachu- setts, on account of con- tagious diseases	87.73	
Sale of offal to Hannibal S. Pond	600.00	
Sale of horse	25.00	
Permits to keep swine and collect grease	43.00	1,603.92
		<hr/>
Total credit		\$21,603.92

DEBIT.

Expenditures :—

For Agent's salary	\$ 1,200.00
Salary of Superintendent of collection of ashes and offal	900.00
Collecting ashes	6,988.00
Collecting offal	10,778.00
Burying dead animals	68.50
Stable expenses (including repairs and lighting)	667.67
Hay and grain	2,531.64
Horse doctoring	22.55
Horseshoeing	435.85

<i>Amounts carried forward</i>	\$23,592.21	\$21,603.92
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<i>Amounts brought forward</i> .	\$23,592.21	\$21,603.92
Harnesses and horse clothing	296.62	
Wagons and sleds, and repairing same . . .	194.30	
Vaccine virus	15.33	
Culture tubes	12.25	
New horses	230.00	
Tools, and repairing same . . .	60.29	
Books, stationery, etc.	113.50	
Incidentals	506.30	
	<hr/>	
Total expenditure		\$25,020.80
		<hr/>
Amount overdrawn		\$3,416.88
		<hr/> <hr/>

ALLEN F. CARPENTER, *Chairman.*

ALVANO T. NICKERSON.

WILLIAM F. HOLMES, M. D.

Board of Health.

REPORT
OF THE
OVERSEERS OF THE POOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 8, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 9, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

BOARD OF OVERSEERS OF THE POOR.

Hon. ALBION A. PERRY, *Mayor, Chairman, ex officio.*

HERBERT E. MERRILL	Ward One.
EDWARD B. WEST, <i>President</i>	Ward Two.
EZRA D. SOUTHER to February 16, 1898	Ward Three.
JAMES H. BUTLER from March 23, 1898	Ward Three.
ALBERT W. EDMANDS	Ward Four.

COMMITTEES.

ON INVESTIGATION AND RELIEF.—Mr. West and Mr. Merrill.

ON FINANCE.—Mr. Edmands, Mr. Souther, and Mr. Butler.

CHARLES C. FOLSOM, *General Agent.*

CORA F. LEWIS, *Secretary.*

WILLIAM F. HOLMES, M. D., *City Physician.*

Office, City Hall Annex, Highland avenue.

CITY OF SOMERVILLE.

OFFICE OF THE OVERSEERS OF THE POOR.

CITY HALL ANNEX, December 31, 1898.

TO HIS HONOR, THE MAYOR, AND CITY COUNCIL, CITY OF
SOMERVILLE.

Gentlemen: — In accordance with our usual custom and the requirements of law, we submit our annual report for the year 1898.

The City Council appropriated for the use of this department, \$20,000.00. This amount was not sufficient, and later on a transfer of some \$3,000.00 was made to our account.

We paid the Somerville Hospital over \$3,000.00 during the year; about one half of this amount, however, has been, or will be collected from friends, towns, cities, and the State. This money we considered well expended, as it aided the Hospital in its work and enabled some poor persons to have hospital treatment, who otherwise would not have been so favored. We believe this plan, which has been in operation for the last year and a half, to be the very best possible under the circumstances, notwithstanding the fact that it costs the city some money and makes considerable extra work for this department.

MEMBERSHIP.

The membership of the Board is the same as last year, with the exception of that from Ward 3. Ezra D. Souther, who had been a very faithful, conscientious and helpful member since November, 1894, died early in the year. He had endeared himself to all of the members, and all who associated with him in the work felt that they had lost a friend. James H. Butler was elected to fill the vacancy. Edward B. West, who

has been a member of the Board for ten years, has been its president for the last four and one-half years, and still holds that position. The general agent and secretary are the same as in 1897.

TEMPORARY AID.

There was a slight falling off in the number of families and the total number of persons aided during 1898. We account for this in two ways: First, fewer persons were out of work, owing to the general improvement in business. Second, owing to the fact that, by arrangement with the Highway Department, men in the families that were aided were required to work in part pay for the aid received.

FULL SUPPORT.

The number of persons who are boarded at the city's expense in almshouses of other cities and towns and in private families has decreased slightly. Several have died within a few weeks. We now have in almshouses, 13; in private families, 12. We average about 10 sick persons in hospitals for whom the city pays. Those in the Somerville Hospital are paid for at the rate of \$8.00 per week; in other hospitals the price varies from \$7.00 to \$10.00 per week. We charge other cities and towns the same as we pay the Hospital, except the city of Boston. Boston charges us \$7.00 per week, and we charge that city the same. Those treated in our hospital, who are "State cases," are paid for at the same rate, viz.: \$8.00 per week; but in these cases the law allows us to collect from the State only \$5.00 per week.

ALMSHOUSE.

The Overseers of the Poor wish to express their gratitude to His Honor, the Mayor, and City Council of 1898 for their practical work in securing the Russell estate for the use of this department for an almshouse. The buildings, we believe, can be arranged, with a small outlay, so that they will meet our requirements for several years to come. Although there has been some delay in consequence of a flaw in the title, we have faith to believe that a satisfactory way will be found out of the

difficulty, so that we may very soon take possession of the "Property" and move our poor people into our "City Home," where they belong and where we can look after them.

INSANE.

We have six less insane persons for whose support the city is paying, than one year ago. The number varies from year to year. Some efforts were made last year, and we believe some progress was made, in the direction of "State Control and Support" of all insane cases. A "State Board of Insanity" was appointed by the Governor. This Board is to "report to the Legislature on or before the first Wednesday in January in the year nineteen hundred, such method, or methods, as in its opinion will most effectually provide for the care and the support of the insane poor who, under existing laws, are cared for by or supported at the expense of the cities and towns of the Commonwealth."

The following are extracts from the existing laws in reference to the commitment of the insane : —

P. S. — CHAP. 87. SECT. 13. No person shall be committed to an insane hospital, unless in addition to the oral testimony there has been filed with the judge a certificate signed by two physicians, each of whom is a graduate of some legally organized medical college, and has practised three years in the state, and neither of whom is connected with any hospital or other establishment for treatment of the insane. Each must have personally examined the person alleged to be insane within five days of signing the certificate ; and each shall certify that in his opinion said person is insane and a proper subject for treatment in an insane hospital, and shall specify the facts on which his opinion is founded. A copy of the certificate, attested by the judge, shall be delivered by the officer or other person making the commitment to the superintendent of the hospital or other place of commitment, and shall be filed and kept with the order.

SECT. 14. A person applying for the commitment or for the admission of an insane person to a state insane hospital, under the provisions of this chapter, shall first give notice in writing to the Overseers of the Poor, or their agent, of the place where the insane person resides, of his intention to make such application ; and satisfactory evidence that such notice has been given shall be produced to the judge in cases of commitment.

SECT. 25. When the state board has reason to believe that any insane person, not incurable, is deprived of proper remedial treatment, and is confined in an almshouse or other place, whether such insane person is a public charge or otherwise, it shall cause application to be made to a judge for the commitment of such person to a hospital in the manner herein prescribed.

SECT. 31. The price for the support, in state insane hospitals, of state, city, and town paupers, shall be three dollars and twenty-five cents a week for each person.

SECT. 32. The charges for the support of insane persons, not having known settlements in this state, shall be paid quarterly by the commonwealth; and the same may afterwards be recovered, by the treasurer of the commonwealth, of the insane persons themselves, if of sufficient ability to pay the same, or of any person or kindred bound by law to maintain them, or of the place of their settlement, if any such is ascertained; and the district-attorneys or other prosecuting officers shall bring actions therefor when requested.

SECT. 45. No pauper shall be discharged from a state hospital without suitable clothing; and the trustees may furnish the same at their discretion, together with such sum of money, not exceeding twenty dollars, as they may deem necessary. Such money and the cost of such clothing, the expense of pursuing such pauper insane persons as escape therefrom, and of burial of such as die in the hospitals, shall be reimbursed to the trustees by the places of legal settlement of city and town paupers, and by the commonwealth in the case of state paupers.

EXTRACTS FROM PAUPER LAWS.

P. S.—CHAP. 83. SECT. 1. *First.* A married woman shall follow and have the settlement of her husband, if he has any within the state; otherwise her own at the time of marriage, if she then had any, shall not be lost or suspended by the marriage.

Second. Legitimate children shall follow and have the settlement of their father, if he has any within the state, until they gain a settlement of their own; but if he has none, they shall in like manner follow and have the settlement of their mother, if she has any.

Third. Illegitimate children shall follow and have the settlement of their mother at the time of their birth, if she then has any within the state; but neither legitimate or illegitimate children shall gain a

settlement by birth in the place where they are born, if neither of their parents then has a settlement therein.

Fourth. Any person of the age of twenty-one years, having an estate of inheritance or freehold in any place within the state, and living on the same three years successively, shall thereby gain a settlement in such place.

Fifth. CHAP. 425. SECT. 1. ACTS OF 1898. Any person of the age of twenty-one years, who resides in any place within this state five years together, and within that time pays all state, county, city, or town taxes, duly assessed on his poll or estate, for any three years within that time, shall thereby gain a settlement in such place.

Sixth. Any woman of the age of twenty-one years, who resides in any place within this state for five years together, shall thereby gain a settlement in such place.

Seventh. The provisions of the preceding clause shall apply to married women who have not a settlement derived by marriage under the provisions of the first clause, and to widows; and a settlement thereunder shall be deemed to have been gained by an unsettled woman upon the completion of the term of residence therein mentioned, although the whole or a part of such term has already elapsed.

Eighth. Any person being chosen, and actually serving one whole year in the office of clerk, treasurer, selectman, overseer of the poor, assessor, constable, or collector of taxes, in any place, shall thereby gain a settlement therein. For this purpose, a year shall be considered as including the time between the choice of such officers at one annual meeting and the choice at the next annual meeting, whether more or less than a calendar year.

Ninth. Every settled ordained minister of the gospel shall be deemed to have acquired a legal settlement in the place wherein he is or may be settled as a minister.

Tenth. A minor who serves an apprenticeship to a lawful trade for the space of four years in any place, and actually sets up such trade therein within one year after the expiration of said term, being then twenty-one years old, and continues there to carry on the same for five years, shall thereby gain a settlement in such place; but being hired as a journeyman shall not be considered as setting up a trade.

Eleventh. Any person who was duly enlisted and mustered into the military or naval service of the United States, as a part of the quota of any city or town in this commonwealth, under any call of the President of the United States during the late civil war, or duly

assigned as a part of the quota thereof, after having been enlisted and mustered into said service, and who duly served for not less than one year, or died, or became disabled from wounds or disease received or contracted while engaged in such service, or while a prisoner in the hands of the enemy, and his wife or widow and minor children, shall be deemed thereby to have acquired a settlement in such place; and any person who would otherwise be entitled to a settlement under this clause, but who was not a part of the quota of any city or town, shall, if he served as a part of the quota of the commonwealth, be deemed to have acquired a settlement in the place where he actually resided at the time of enlistment. But these provisions shall not apply to any person who was enlisted, and received a bounty for such enlistment in more than one place, unless the second enlistment was made after an honorable discharge from the first term of service, nor to any person who has been proved guilty of wilful desertion, or who left the service otherwise than by reason of disability, or an honorable discharge.

Twelfth. Upon the division of a city or town, every person having a legal settlement therein, but being absent at the time of such division, and not having acquired a legal settlement elsewhere, shall have his legal settlement in that place wherein his last dwelling-place or home happens to fall upon such division; and when a new city or town is incorporated, composed of a part of one or more incorporated places, every person legally settled in the places of which such new city or town is so composed, and who actually dwells, and has his home within the bounds of such new city or town at the time of its incorporation, and any person duly qualified as provided in the eleventh clause of this section, who, at the time of his enlistment, dwelt and had his home within such bounds, shall thereby acquire a legal settlement in such new place; but no person residing in that part of a place which upon such division is incorporated into a new city or town, and having then no legal settlement therein, shall acquire any by force of such incorporation only; nor shall such incorporation prevent his acquiring a settlement therein within the time and by the means by which he would have gained it there if no such division had been made.

P. S. — CHAP. 83. SECT. 2. Nothing in the preceding section shall be construed to give to any person the right to acquire a settlement, or to be in process of acquiring a settlement, while receiving relief as a pauper, unless within five years from the time of receiving

such relief he reimburses the cost thereof to the city or town furnishing the same.

SECT. 3. No person who actually supports himself and his family shall be deemed to be a pauper by reason of the commitment of his wife, child, or other relative to an insane hospital or other institution of charity, reform, or correction by order of a court or magistrate, and of his inability to maintain such wife, child, or relative therein ; but nothing herein contained shall be construed to release him from liability for such maintenance.

SECT. 4. No person who has begun to acquire a settlement by the laws in force at and before the time when this chapter takes effect, in any of the ways in which any time is prescribed for a residence, or for the continuance or succession of any other act, shall be prevented or delayed by the provisions hereof ; but he shall acquire a settlement by a continuance or succession of the same residence or other act, in the same time and manner as if the former laws had continued in force.

SECT. 5. Except as hereinafter provided, every legal settlement shall continue till it is lost or defeated by acquiring a new one within this state ; and upon acquiring such new settlement all former settlements shall be defeated and lost.

P. S.—CHAP. 425. SECT. 2. ACTS OF 1898. All settlements not fully acquired subsequent to the first day of May in the year eighteen hundred and sixty are hereby defeated and declared to be lost, except where the existence of such settlement prevented a subsequent acquisition of settlement in the same place : *provided*, that whenever a settlement acquired by marriage has been thus defeated, the former settlement of the wife, if not defeated by the same provision, shall be thereby revived. All persons absent from the Commonwealth of Massachusetts for ten years in succession shall lose their settlement.

SECT. 3. The kindred of such poor persons, in the line of degree of father or grandfather, mother or grandmother, children or grandchildren, by consanguinity, living in this state and of sufficient ability, shall be bound to support such paupers in proportion to their respective ability, and hereafter the same legal obligation to support her pauper children shall rest upon the mother as now by law rests upon the father : *provided, however*, that the mother shall not be liable to criminal prosecution for the enforcement of such legal obligation.

SECT. 4. Any justice of the superior court sitting in equity in the county where any one of such kindred to be charged resides, upon complaint of any city, town, or kindred, who has been at expense for the relief and support of such pauper, may, on due hearing, assess and proportion thereto such sum as he shall deem reasonable for or towards the support of the pauper to the time of such assessment, and may enforce payment thereof by execution in common form: *provided*, that such assessment shall not extend to any expense for relief afforded more than two years previous to the filing of the complaint.

SECT. 5. A city or town may furnish aid to poor persons found therein, having no lawful settlement within the state, if the overseers of the poor deem it for the public interest; but, except in case of sickness, not for a greater amount than two dollars a week for each family during the months of May to September, inclusive, or three dollars a week for the months of October to April, inclusive, and the overseers shall, in every such case, give immediate notice by mail to the state board of lunacy and charity, which board shall examine the case, and should they direct discontinuance, shall remove such persons to the state almshouse or to any state or place where they belong, when the necessities of such persons or the public interest require such removal, and the superintendent of said almshouse shall receive the persons so removed thereto the same as though sent in accordance with the provisions of section twenty-one of chapter eighty-six of the Public Statutes, as amended by chapter eighty-four of the acts of the year eighteen hundred and ninety-one, and a detailed statement of expenses so incurred shall be rendered, and after approval by the state board of lunacy and charity, such expenses shall be paid from the state treasury.

This report, with accompanying tables, is respectfully submitted.

(Signed) ALBION A. PERRY, *Chairman, ex officio.*
 HERBERT E. MERRILL, Ward One.
 EDWARD B. WEST, *President*, Ward Two.
 EZRA D. SOUTHER, Ward Three.
 JAMES H. BUTLER, Ward Three.
 ALBERT W. EDMANDS, Ward Four.

Board of Overseers of the Poor.

TABLE NO. 1.

FULL SUPPORT (DURING THE YEAR).

In Almshouses	18
In private families	25
In hospitals for the sick	94
In Massachusetts School for the Feeble-minded	4
Insane persons in private families	3
Insane persons in hospitals	75

TABLE NO. 2.

FULL SUPPORT (AT PRESENT TIME, DECEMBER 31, 1898).

In out-of-town almshouses	13
In private families	12
Insane in hospitals (we are reimbursed for 4)	58
Insane in private families	3
In hospitals, sane	3

TABLE NO. 3.

SOMERVILLE HOSPITAL.

Cases on city's account	81
Cases having settlement in Somerville	28
Cases having settlement in other cities or towns	23
Cases having no settlement (chargeable to State)	30
Money expended	\$3,134.76
Amount to be reimbursed to the city	1,580.05
Net cost to the city	<u>\$1,554.71</u>

TABLE NO. 4.

PARTIAL SUPPORT (OUT-DOOR RELIEF).

Families aided	314
Persons aided	1,274
Burials	21
Permits to the Tewksbury almshouse	5

TABLE NO. 5.

RECAPITULATION.

Appropriation	\$20,000.00
Reimbursements	6,552.98
	<hr/>
Total receipts	\$26,552.98
Total expenditures	28,522.21
	<hr/>
Account overdrawn	\$1,969.23
Net expenditures	\$21,969.23

TABLE NO. 6.

REIMBURSEMENTS.

Commonwealth of Massachusetts	\$2,233.49
City of Boston	1,208.66
“ “ Cambridge	604.80
“ “ Lowell	88.15
“ “ Lynn	14.75
“ “ Malden	68.30
“ “ Marlborough	49.58
“ “ Newton	38.03
“ “ Quincy	50.94
“ “ Revere	3.00
“ “ Springfield	2.45
“ “ Woburn	51.45
“ “ Worcester	9.85
Town of Brookline	10.00
“ “ Canton	2.93
“ “ Clinton	10.50
“ “ Danvers	49.14
“ “ Hingham	89.47
“ “ Leominster	1.25
“ “ Mattapoisett	4.00
“ “ Merrimac	12.30
“ “ No. Andover	96.68
	<hr/>
<i>Amount carried forward</i>	<i>\$4,699.72</i>

<i>Amount brought forward</i>	\$1,699.72
Town of Plymouth	3.50
“ “ Watertown	10.00
Highway Dept. for labor	212.00
Guardian and Relatives	1,592.76
Money refunded	7.00
Sale of flags	28.00
	<hr/>
	\$6,552.98

TABLE NO. 7.
EXPENDITURES, IN DETAIL, FOR THE YEAR 1898.

1898.	Rent.	Board.	Groceries.	Towns and Cities.	Public In-stitutions.	Boots and Shoes.	Dry Goods.	Burial.	Salaries.	Fuel.	Sundries.	Medicine.	Total.
January . . .	38	\$172.38	\$503.85	\$810.77	\$2,655.38	\$21.75	. . .	40	\$278.51	. . .	\$39.19	. . .	\$4,559.83
February . . .	38	126.00	312.90	201.10	429.48	14.80	\$7.80	9	273.17	\$357.41	43.25	. . .	1,812.91
March . . .	38	219.18	563.44	56.00	2,345.21	10.00	. . .	. . .	287.49	122.90	8.57	. . .	3,650.79
April . . .	31	153.41	220.13	381.59	545.40	13.20	13.00	40	270.83	10.38	60.96	. . .	1,739.90
May . . .	31	186.60	248.27	59.03	628.28	12.25	. . .	. . .	208.34	. . .	40.83	. . .	1,414.60
June . . .	31	185.30	271.54	62.01	2,466.23	. . .	11.93	5	258.33	. . .	44.25	\$292.09	3,627.68
July . . .	20	139.50	220.86	660.59	531.98	7.10	. . .	20	258.33	. . .	85.32	40.41	1,984.09
August . . .	7	154.21	245.73	47.00	215.42	. . .	. . .	35	258.33	. . .	21.00	61.80	1,045.49
September . . .	31	285.87	293.06	726.63	2,127.74	15.00	. . .	5	258.34	. . .	24.30	73.65	3,840.59
October . . .	19	131.36	210.01	160.16	305.57	. . .	7.75	. . .	258.33	. . .	63.61	44.95	1,200.74
November . . .	19	119.28	350.45	22.06	688.63	17.75	1.00	. . .	258.33	120.24	16.85	54.90	1,668.49
December . . .	19	170.29	284.97	643.95	331.29	10.60	9.60	60	258.34	105.46	23.95	59.65	1,977.10
	322	\$2,043.38	\$3,725.21	\$3,830.89	\$13,270.61	\$122.45	\$51.08	214	\$3,126.67	\$716.39	\$472.08	\$627.45	\$28,522.21

TABLE NO. 8.
GROSS EXPENDITURES FROM 1885 *to 1898, INCLUSIVE.

1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
\$16,430.32	\$14,341.83	\$13,430.89	\$13,375.98	\$14,610.92	\$15,261.14	\$15,980.49	\$17,015.30	\$17,799.58	\$19,733.13	\$20,755.46	\$21,990.79	\$25,681.47	\$28,522.21

REPORT
OF THE
CITY PHYSICIAN.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF CITY PHYSICIAN,
January 11, 1899.

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF
SOMERVILLE.

Gentlemen:—The report of my year's service as City Physician, together with a few suggestions, is here presented to your honorable body.

From January 21, 1898 to December 31, 1898 :—

Twenty-two hundred and twenty-nine (2,229) calls have been made at the houses of patients.

Two hundred and two (202) office advices have been given.

Two hundred and twenty-one (221) children have been vaccinated.

Twenty-three (23) patients have been attended during childbirth.

Twenty-six (26) calls have been made at the Police Station.

Three (3) men were examined for the police force.

Two (2) for permanent positions in the fire department.

Twelve (12) certificates were signed for deaths where no physician had been in attendance.

Eight (8) insane paupers have been committed.

From a casual perusal of the blanks required for commitment of patients, I did notice that it required the signature of a physician of three years' practice, but did not notice that the three years' practice must be since graduation; neither did I know at that time that there was any remuneration for commitment. These cases were all committed the first of the year, excepting one case which was recommitted lately. It has since come to my notice that I shall be obliged to ask the signature

of some physician to the blanks, as, while I have practised medicine three years, I shall not have practised three years since my graduation until June of the present year. However, this is a simple matter, as all these cases are passed upon by another physician and the judge of the court, before requiring my (or the second) signature. It is a mere technical matter. Since the matter was so unkindly called to my attention I have had only one case, in which another friendly-disposed physician kindly signed the required blank, for which the county pays \$4.00, so that no expense is entailed to the city under any circumstance.

Unkindly criticisms of this matter by interested parties render it obligatory upon me to make this explanation in regard to this small matter.

For the first time in the history of Somerville the city has paid for the medicine furnished the poor people.

From simply hearing of the cost of these medicines, without giving the subject thought, one might decide that the medicine bill was a large one. When last year's city government voted that the City of Somerville should pay for all medicine prescribed by the City Physician, they also voted that the salary, then \$1,150 per year, should be reduced to \$1,000. It is readily seen that \$150 toward the payment of medicine came from my own pocket and not from the city treasury.

I have now in my office, drugs, bandages, cotton, ether, etc., amounting in value to \$100.00, thus reducing the actual cost to the city for medicine, \$250.

Another important item is the fact that the entire cost for all medicine furnished those patients who have not gained a residence in Somerville is collected from the city or town where their residence has been gained, unless, perchance, they have never lived and paid taxes long enough in any town. In that case the State returns to our poor department the actual cost of all medicine, and also pays this city \$1.00 for each call made on the case by the City Physician. I should estimate that at least one fourth of the entire amount of the cost of medicines is returned from this source, reducing the actual cost proportionally to our city, amounting to about \$150.00.

A careful study of these few facts would soon quickly show that the actual cost of medicines for the year is very small, about \$200.00, considering the number of patients treated.

I am free to confess that I do not believe in economizing at the expense of our poor. Quite a portion of the amount spent for medicine was expended for infant foods. It was the only way their lives could be saved, and economy, when life is at stake, is, I believe, false economy.

Some changes have been made in relation to hospital cases, for whom the Poor department pays \$7.00 per week. Formerly the number of beds was limited to seven, and the city paid \$9.00 per week each for their care. At present the number of beds is unlimited and the cost per patient reduced to \$7.00, a much better arrangement. An almshouse would prove of great benefit if a small ward could be fitted. A great number of our sick poor now sent to the hospital could be cared for in this way, thus saving expense to the city, and allow the City Physician an opportunity to follow carefully the cases in which he is so deeply interested.

It seems to me that all pauper cases admitted to the hospital should be personally examined by the City Physician, whoever he may be, before they are placed on a city bed. It is a simple matter to place on city beds patients who have been cared for by outside physicians until they are no longer able to pay the physician's fees, and then are turned over to the city for care. This has been partially accomplished this year, as it is now necessary for all cases to be reported at the office of the Overseers before they can be sent to the hospital, excepting emergency cases. It would seem entirely proper that the City Physician should personally examine and pass on all cases admitted to the hospital for which the city is to pay.

I believe such an arrangement, although greatly increasing the work of the City Physician, would decrease the number of cases at the hospital paid for by the city, and would respectfully ask that your honorable body make such suggestion to the Overseers of Poor.

I should be very glad of an opportunity to more fully discuss many of these subjects with the city government should opportunity present. The increase of population each year renders

the duties of City Physician more arduous, and we must carefully study every phase of his duties if we expect to keep pace with our sister cities. New ideas in medicine and their application are each year forced upon us. Let us not be simply the follower of others in these matters, but one of the leaders, and show to those cities about us that we are progressive, and believe it our duty to do all in our power to assist and relieve the sufferings of our poor, rather than allow ourselves to become so economical that the poor shall suffer from the economy practised.

Respectfully submitted,

WILLIAM F. HOLMES,

City Physician.

REPORT
OF THE
CITY ENGINEER.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 8, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 9, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF CITY ENGINEER,
CITY HALL, SOMERVILLE, January 25, 1899.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL OF THE
CITY OF SOMERVILLE.

Gentlemen: — In accordance with Chapter 9, Section 9 of the city ordinances, I herewith present to your honorable body a report of the work done and expense incurred, for the year ending December 31, 1898, by the departments under my charge and supervision, including Engineering, Sewers, Public Grounds, and other public works.

ENGINEERING DEPARTMENT.

Work in this department consists of the designing of all public engineering works and the superintending of the construction of sewers, bridges, parks, and various other special works of improvement ordered by the City Council from time to time; including the making of all surveys, plans, profiles, specifications, estimates, etc., for the several city departments and committees; the furnishing of street lines, grades, and other information for property owners and builders; the making of assessment plans and computing of assessments for sewers, sidewalks and streets; and the locating, recording, and indexing of all work under the control of the City Engineer.

The work of the Engineering department has increased materially the past year, owing to the greater amount of work done by the Sewer and Highway departments.

Twenty-one assistants have been employed in the department as engineers on the various works during the year, eleven permanently, and others as the work required. All engineering

work has been paid from the engineering appropriation, with the exception of a portion of the work on the constructing of the large storm-water drains, the services of the engineer in charge, who was also an inspector, being charged to that account.

Appropriation		\$9,000.00
Received from W. A. Sanborn, partial survey Lincoln Park		40.00
Received from Miscellaneous account, street numbering		21.50
		<hr/>
		\$9,061.50

Salary City Engineer (including maintenance of team)	\$2,350.00	
Salaries of assistants	6,062.02	
Draughting materials, stationery and office supplies	265.16	
Tapes, plumbs, stakes, tools and general supplies	178.88	
Car fares	174.15	
Expressing and incidental ex- penses	10.00	
	<hr/>	
Total		9,040.21
		<hr/>
Unexpended balance		\$21.20

Engineering services on account of constructing storm drains, paid from Sewers Construction account		\$1,456.87
Total cost maintaining Engineering department, 1898		\$10,497.08

CLASSIFICATION OF EXPENDITURES, ASSISTANTS' SALARIES.

Sewers—comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments, and all work relating to sewers		\$2,716.46
<i>Amount carried forward</i>		\$2,716.46

<i>Amount brought forward</i>	\$2,716.46
Highways—comprising plans, estimates, titles, profiles, lines and grades, and all other work relating to the department	409.18
Sidewalks—comprising profiles, lines, grades, measurements, titles, costs and assessments	516.72
Water Works—comprising lines, grades, locations of mains, gates, hydrants and services, and other matters relating to water department	455.08
Public Grounds—comprising surveys, plans, estimates, profiles and grades, including laying out of parks	404.93
Public Buildings—comprising surveys, estimates, lines, grades, and other work relating to construction	86.59
Street Numbering—comprising locations of buildings, plans, and affixing street numbers on houses	162.43
Street Lines—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading	129.81
Middlesex Registry—comprising copying of plans and abstracts from deeds filed, and examination of titles	186.72
City Survey—comprising lines, angles and measurements, calculations of traverses and locations of division lines and buildings	203.03
West End Street Railway Co.—comprising grades, plans and profiles	53.78
Somerville Electric Light Co.—comprising lines, plans and locations of poles	20.28
Office Work—comprising records of all locations, indexing, typewriting, calculations, and general draughting	528.17
Miscellaneous Work—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees	188.84
Total	<u>\$6,062.02</u>

The total cost of maintaining the Engineer's department from 1872 to 1898, both years inclusive, has amounted to \$144,178.00

OFFICE RECORDS.

Note Books and Plans on File.

Survey and field books	178
Sewer permit books	24
Deed record books	7
	<hr/>
Total note books	209
Highway plans and profiles	1,003
Sewer plans and profiles	1,438
Park plans	78
Street numbering plans	427
House lot plans	1,392
Miscellaneous plans	472
	<hr/>
Total plans	4,810

BRIDGES, SUBWAYS, AND GRADE CROSSINGS.

Boston & Maine Railroad, Southern or Lowell Division:—

On the main line of this railroad there are no grade crossings in the city; at Washington street the highway passes beneath the railroad, but at all other crossings on this line the highways cross by means of bridges. All but two of these bridges have been erected recently; they are modern iron structures and are maintained by the railroad company.

The new iron Bridges were built in the following years:—

Washington street, 1887; Cross street, 1891; Walnut street, 1895; Medford street, 1880; School street, old structure, to be rebuilt in 1899; Sycamore street, old structure; Central street, 1890; Cedar street, 1888; Broadway, 1893.

At Lowell street there is at present no bridge, the old structure having been torn down by the railroad company a number of years ago. This bridge should be rebuilt, as there is no means of crossing the railroad between the Central street and Cedar street bridges, which are a half mile apart.

On the line of the Lexington and Arlington branch of the Boston & Maine Railroad, all the city's streets cross at grade and could be abolished at the present time at a comparatively small expense, while the land at most of these points is unobstructed by buildings and the income from the increased valuation in these localities would soon equal the city's original outlay.

Fitchburg Railroad:— On the line of this railroad there are but three bridges, namely, at Prospect street, Washington street, and Beacon street. The Beacon street bridge will probably be rebuilt in 1899. It is designed to be of the full width of the roadway, 44 feet, with 10-foot sidewalks.

The other two bridges are old structures, but will probably answer all purposes, with some repairing, until the matter of abolishing all grade crossings on the line of this railroad is determined. At Kent street and Sacramento street, there are subways for foot passengers only.

At the present time there are ten streets within the city limits that are grade crossings on the line of the Fitchburg Railroad. These are not only dangerous, but cause much delay, and the railroad company and the city should unite in an attempt to abolish these crossings. During the past year considerable preliminary work has been accomplished.

Broadway Bridge over Alewife Brook:— This is a stone arch, masonry bridge, in good repair, and is maintained jointly by this city and the town of Arlington.

Bridges over Mystic River:— Middlesex avenue bridge is a wooden, pile bridge, with a draw, maintained by the cities of Somerville and Medford; the bridge has been extensively repaired from year to year and will probably be replaced by a new, substantial structure in the near future, to conform with the Metropolitan boulevard constructed on either side of the river. Somerville's proportional part of maintenance for 1898 was \$701.17.

Boston Avenue Bridge:— This is a wooden structure, resting on stone abutments, and is in need of extensive repairs; if a double line of electric railroad tracks should be laid in Boston avenue, and cross the Mystic River at this point, a new and permanent bridge should be erected the full width of the street.

SEWERS AND STORM-RELIEF DRAINS.

Probably a far greater amount of construction work has been accomplished by the Sewer department during the past year than in any other previous year, as the money was available for use early in the season, and large construction work was commenced in March and continued through December. The city has saved many thousands of dollars by doing this work at an opportune time, when materials were at their lowest prices and laborers out of employment on account of business depression.

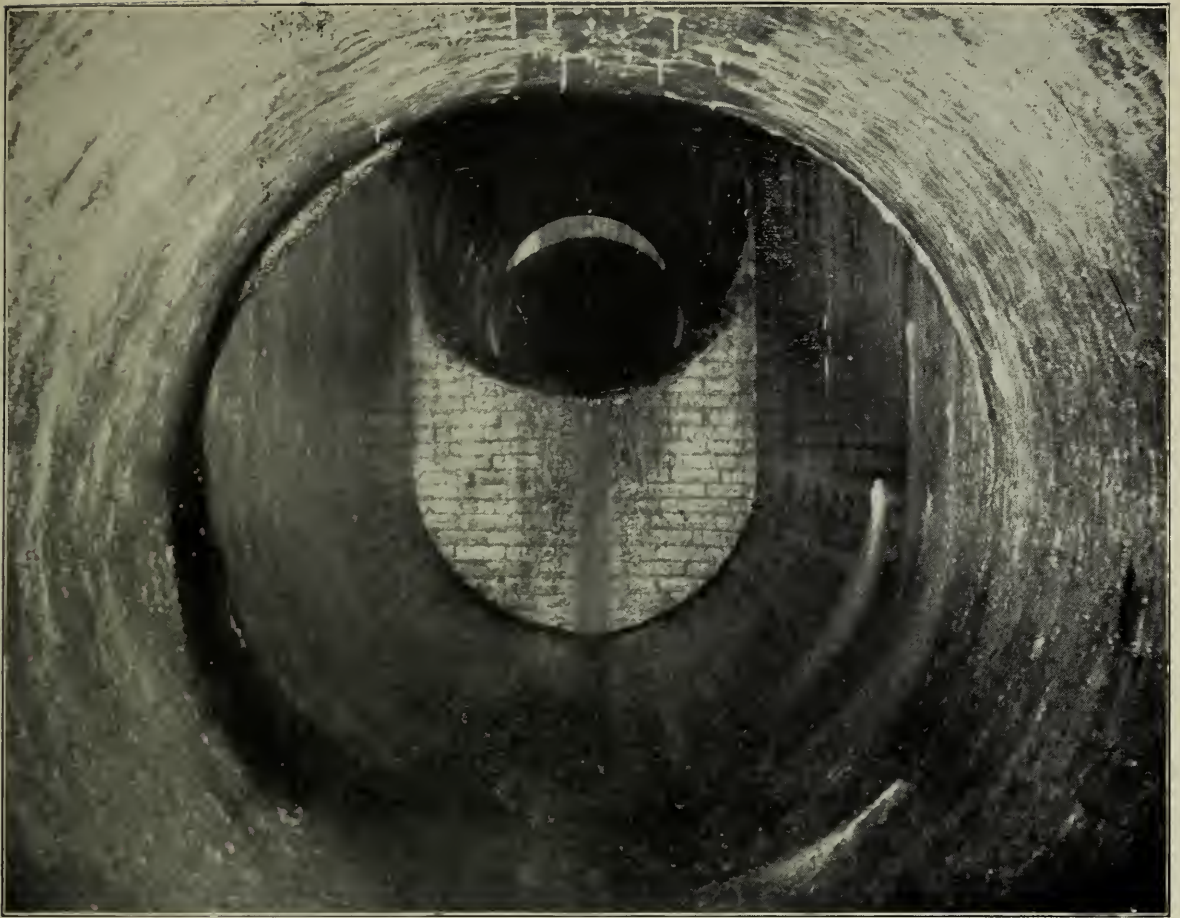
For many years past the sewers in certain sections of the city have been inadequate in times of heavy storms, and many cellars in the low areas have been badly flooded.

The greater part of the work accomplished during the year has been the construction of long lines of storm-relief drains.

In 1897 a portion of the main trunk outlet for storm water in the Eastern district of the city was completed in Winthrop avenue to Broadway, and in 1898 work on construction was continued from this point in opposite directions. A bell-mouth, or chamber, 15.5 feet long by 9 feet wide, was constructed by day labor, at the junction of Winthrop avenue and Broadway. The cost was \$575.00. From this chamber one line of storm drain was constructed on the northeasterly side of Broadway, from Winthrop avenue to Cross street, and thence along the easterly side of Cross street to the junction of Pearl street; this work was done by contract with Thomas H. Bryne. The structure is circular, built of concrete and brick masonry, 3 feet 6 inches in diameter, and has overflow connections constructed with the old sewerage system at different points on its route.

The total length of this relief drain is 1,877.5 feet, and the cost \$15,741.27. It provides relief from flooding for a district in East Somerville comprising about 147 acres.

Another line of storm drain was constructed from the previously mentioned chamber and extended on the southwesterly side of Broadway, from Winthrop avenue to Sargent avenue, thence on the easterly side of Sargent avenue to Sherman court, through Sherman court to Marshall street, thence along



SIZE 4'-8."

DROP CHAMBER ON BROADWAY STORM DRAIN, NEAR WALNUT ST.



3'-6" CONNECTION.

5'-2" CONNECTION.

7'-6" X 7'-1" OUTLET.

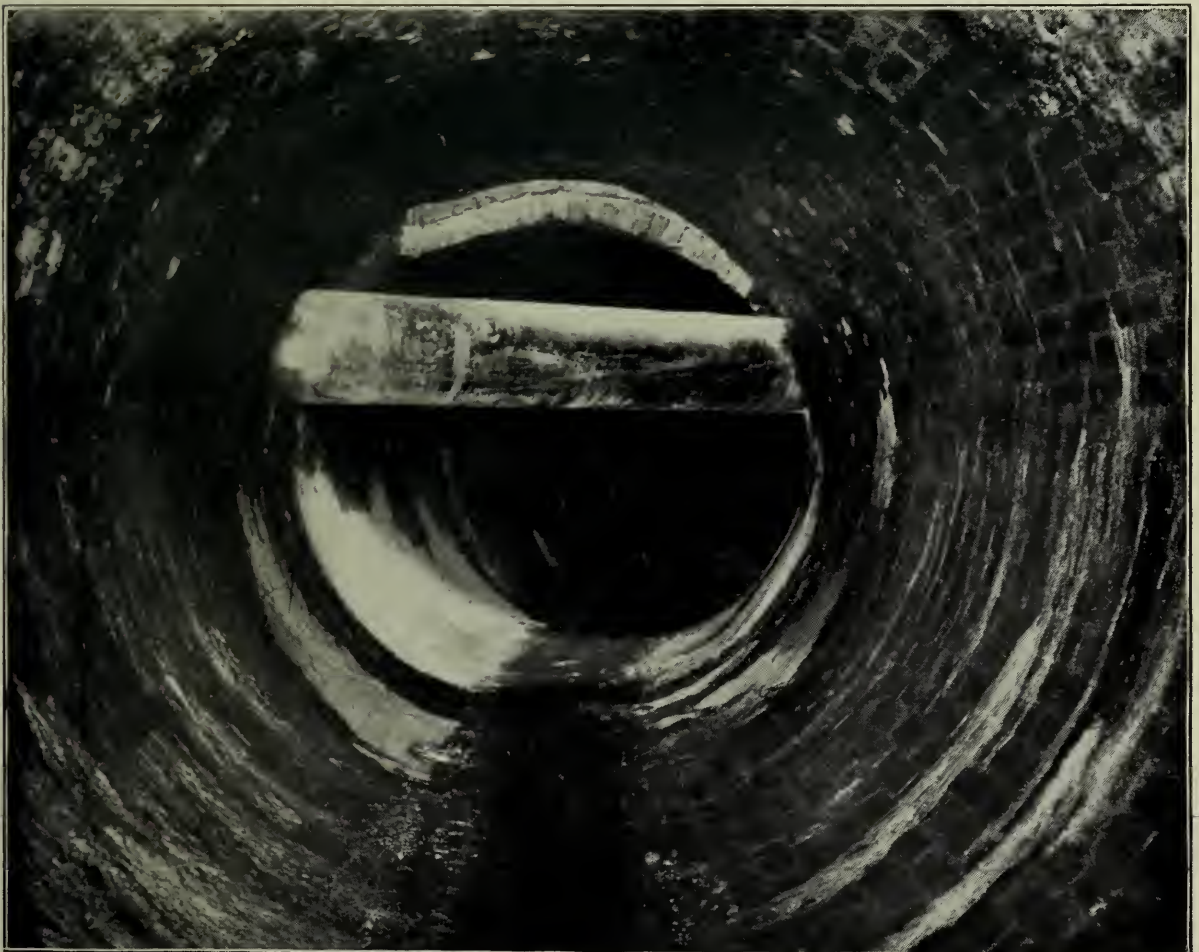
BELL-MOUTH CHAMBER, JUNCT. BROADWAY AND WINTHROP AVE.



4' CONNECTION.

4' CONNECTION.

BELL-MOUTH CHAMBER, GILMAN SQ., ON STORM DRAIN.



MARSHALL ST. SEWER CROSSING THROUGH 5'-6" STORM DRAIN.

the northwesterly side of Marshall street to Gilman square, crossing the square and running on the southwesterly side of Medford street to the junction of School street.

This work was done by contract and divided, for convenience, into two sections, the part in Broadway and Sargent avenue being constructed by Richard Falvey, and the remaining portion by Charles E. Trumbull & Co.

It is a circular structure, built of concrete and brick masonry, and varies in size, being 5 feet 6 inches, 5 feet 2 inches, 4 feet 8 inches, and 4 feet in diameter, respectively, having overflow connections with the old sewers at various points.

The total length of this drain is 3,774.7 feet, and the cost, \$35,467.03; it is designed to drain, eventually, 285 acres. At Gilman square a bell-mouth connection was left, to be used in the future for draining the Lowell Railroad valley, between School street and Cedar street; this section includes an area of about 118 acres, and at present has no storm-drainage system. A portion of this area is badly flooded at times, and the storm-drainage system should be extended in the railroad valley as a means of relief, the railroad corporation paying a proportional part of the expense for the benefits it will derive therefrom.

A short section of the main trunk outlet for storm water in this Eastern district system remains to be constructed across the marsh land, on the line of Winthrop avenue extended, between Mystic avenue and Middlesex avenue.

When these two sections, just referred to, are constructed, the whole watershed area on the northeasterly side of the city, comprising 520 acres, will be completely drained, and cellars and streets permanently relieved from flooding during storms.

On the southerly side of this watershed, flooding is also experienced, and for the purpose of giving relief to a portion of the district, a storm-relief drain has been constructed during the past year, from the Washington street and Somerville avenue sewers, in Union square, northwesterly in Bow street, on the easterly side, crossing through Wesley square, and extending on the westerly side of Summer street to the junction of School street, a distance of 2,080.8 feet.

The structure is built of concrete and brick masonry, varying in size from 5 feet to 3 feet 4 inches in diameter, with relief

overflows, constructed at different points, connecting the old sewerage system.

C. E. Trumbull & Co. were the contractors, and the total cost of construction amounted to \$18,259.94.

The southerly and westerly portion of this same watershed area, in the vicinity of Union square, and westerly to the Cambridge line, being a very flat and low area, presents a more difficult problem in the city's drainage system.

Within this area there are many cellars at a lower elevation than tide-water, and whenever a heavy storm occurs, accompanied with a high tide, some 700 cellars become more or less flooded by back sewage. To relieve this district, an entirely separate system of sewers has been designed for house drainage only, having its outlet into the metropolitan sewer, the present system to be used for storm drainage.

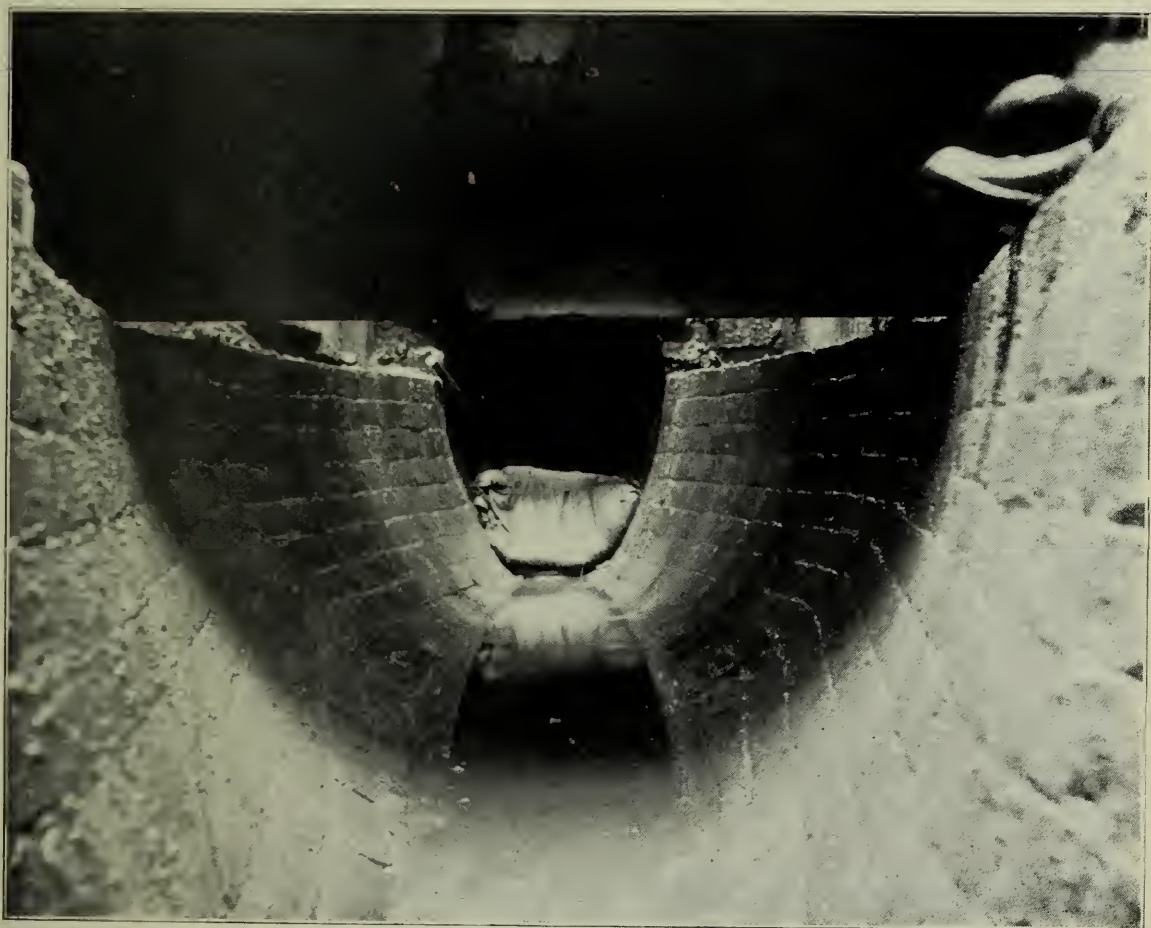
A section of this separate sewer system, a part of the main trunk line, was constructed the past year, extending from the Metropolitan sewer at Poplar street, along the northeasterly side of Somerville avenue to Prospect street, a distance of 1,846 feet. The work of construction was divided into two sections, the contractors being Timothy F. Crimmings and C. E. Trumbull & Co. The sewer is built of concrete and brick masonry, egg shaped, 3 feet and 3 inches by 2 feet and 2 inches in size, the total cost amounting to \$16,168.03.

By the extension of this separate system, with various branches, all cellars in the entire Somerville avenue and Concord square districts will be relieved from flooding during storms. Also to give partial relief in times of heavy rains to the present overcharged Somerville avenue sewer, a short section of storm-water drain should be constructed from Somerville avenue easterly to the present head of Miller's River, on the northeast side of the Boston & Lowell Railroad, at the East Cambridge line; this outlet would be protected by automatic tide-gates.

The past year sewers have been built in a section in the westerly part of the city, between Clarendon Hill and Alewife Brook; these are small pipe sewers, constructed for house drainage only, and have their outlet into the Metropolitan



5'-0" STORM DRAIN CONNECTING WITH 5'-6" SEWER IN UNION SQ.



33" x 22" SEWER UNDER 5'-6" SOMERVILLE AVE. SEWER AT PROSPECT ST. INVERT SOMERVILLE AVE. SEWER $\frac{3}{8}$ " STEEL.

sewer. New sewers have been built and old ones rebuilt in various streets in different parts of the city, as required by petitions, during the year.

METROPOLITAN SEWER CONNECTIONS.

During the year 1898, four new connections have been made with the Metropolitan sewer mains, three in the vicinity of Alewife Brook, and the other at the junction of Somerville avenue and Poplar street. At present the city has within its limits, eight connections between the local system and the State sewer, and also two outlets for sewage from small districts through the cities of Cambridge and Medford.

A connection should be made at North Union street for the district on Mount Benedict and vicinity, preventing the discharge of this sewage into Mystic River.

About sixty-nine miles of sewers, having over eleven thousand house connections in the city, are connected with the Metropolitan sewer mains. The city's assessment for maintenance of the Metropolitan sewer for 1898 was \$9,046.15, and on construction account, \$22,520.16. The total amount paid by the City of Somerville on account of construction and maintenance of the Metropolitan sewerage system has been \$202,506.37.

SEWERS AND STORM DRAINS CONSTRUCTED IN 1898.

Nineteen sewers have been constructed during the year, a length of 14,975.3 feet (2.84 miles), at a total cost of \$33,240.92. One sewer, contracted for, remained uncompleted December 31, 1898.

On thirteen of these sewers, assessments have been levied on the abutting land owners, amounting to \$11,107.04; the remaining six sewers will be assessed the coming year.

Eight thousand and seventy-six and nine-tenths feet (1.53 miles) of storm-water drains, costing \$70,584.81, have been constructed during the year.

The total cost of constructing the sewerage system in the city has amounted to about \$843,200.00, and the total amount expended for storm-relief drains, exclusive of land damages, about \$131,128.00.

CATCH-BASINS AND MISCELLANEOUS CONSTRUCTION WORK.

Forty-two catch-basins have been built during the year 1898, at a total cost of \$1,715.22.

The total number of catch-basins built in the city December 31, 1898, is nine hundred and forty-one.

By the addition of more basins on the streets in the localities of the newly constructed storm drains, the highways of the city can be better maintained and at a less expense.

Ten manholes have been constructed on a portion of the old sewerage system in the East Somerville district, east of Cross street, at a total cost of \$272.33, for the purpose of inspecting and cleaning the sewers in this district.

A temporary wooden tide-gate has been built at a cost of \$296.65, in the Winthrop Avenue storm drain, at its outlet on Mystic avenue into the creek across the marsh lands; this tide-gate will be permanently constructed at Middlesex avenue, when the storm drain is completed, in the place of the tide-water creek.

The outlet to the Tannery Brook storm drain, in Cambridge, has been improved and extended during the year at a cost of \$455.24.

MAINTENANCE OF THE SEWERAGE SYSTEM, 1898.

The general work and cost of maintaining the sewerage system of the city increases each year as more catch-basins are added, more connections with the Metropolitan sewer made, and additional lengths of sewers and storm drains constructed, all of which must be cleaned and flushed occasionally during the year.

The cost of changing the line and grade and repairing manholes, the cleaning of flooded cellars, the flushing, cleaning, repairing and general maintenance of sewers during the year 1898, amounted to \$3,641.61.

The cost of changing the line and grade, repairing, cleaning, flushing and general maintenance of catch-basins during the year 1898, amounted to \$3,694.36.

Permits were granted the past year for laying two hundred and eighty-six private drains connecting buildings with the

public sewers, and for the repairing of thirty-three old drains. All connections with the public sewers are made by licensed drain layers, under the direction of the city's inspector, and are located and recorded for future reference. The cost of inspection, location and general supervision of house drains has amounted to \$368.02.

EXPENDITURES IN SEWER DEPARTMENT, 1898.

The total cost of work done under Sewers Construction account during the year amounted to \$108,567.71, which includes the amount expended for construction of storm-relief drains.

The total cost of work done under Sewers Maintenance account during the year amounted to \$7,703.99.

TABLE SHOWING STORM DRAINS CONSTRUCTED IN 1898.

DISTRICT BENEFITED.	FROM	TO	CONTRACTOR.	CONCRETE AND BRICK.							Total Cost.	
				Size in Inches.	Length in Feet.	Cubic Yds. of Rock.	Engineering and Inspection.	Materials Furnished by City.	Average Cut.	Average Cost per Foot.		
East Somerville District.												
Broadway	Winthrop ave.	Cross st.	T. H. Bryne	42	1,877.5	757	\$619.90	\$428.10	13.2	88.38	\$15,741.27	
Cross st.	Broadway	Pearl st.										
Winthrop ave.	End drain built 1897	Broadway	City. Day labor	90x85	25.7	(Includes Bell-mouth.)			13.5	8.84	755.67	
Broadway	Winthrop ave.	Sargent ave.	Richard Falvey.	62-56 56	1,648.6	115.1	631.41	286.30			14,566.77	
Sargent ave.	Broadway	Sherman ct.										
Sherman ct.	Sargent ave.	Marshall st.	C. E. Trumbull & Co.	56	2,126.1	8.2	878.30	1,242.95	11.6	9.83	20,900.26	
Marshall st.	Sherman ct.	Gilman sq.										
Gilman sq.	Marshall st.	Medford st.										
Medford st.	Gilman sq.	School st.										
Somerville Ave. District.												
Union sq.	Washington st. sewer	Bow st.	C. E. Trumbull & Co.	60-51 51	2,080.8	437.2	751.53	557.97	11.3	8.78	18,259.94	
Bow st.	Union sq.	Summer st.										
Summer st.	Bow st.	School st.										
Tannery Brook Valley District.												
Day st.	Davis sq.	Westerly	C. E. Trumbull & Co.	A 20-12	318.2		16.00	81.18	10.0	1.13	360.90	
Total					8,076.9						\$70,584.81	

A. Pipe. Total length storm drains constructed by the city Jan. 1, 1899, 14,089.9 feet.

PUBLIC GROUNDS DEPARTMENT.

The public parks in the city have been maintained during the season of 1898 at about the same cost as the preceding year. Some changes have been made in the location and planting of the various flowerbeds on the different parks. A rockery has been added in the pond on Broadway Park, which was decorated during the summer with tropical plants, water grasses and pond lilies.

By an agreement, Florist J. W. Howard has furnished and maintained all flowers, plants, bulbs, bedding and shrubbery used on the public grounds during the season.

The fence which surrounded the Parkway, in Broadway, has been removed, and an order was adopted by the City Council in December, authorizing the removal of the iron fence enclosing the Broadway Park, but nothing was done, on account of insufficient time.

Some of the walks on Central Hill Park have been partially repaired during the year, but the steep walks leading to the railroad station are in an unsafe condition and should be reconstructed; also an additional number of settees should be placed on the different parks.

The matter of depositing ashes and refuse material on all parts of the Ward Two park has been restricted, and all dumping confined to Wyatt's pit, in one section of this park.

During the winter months, Lincoln Park and Broadway Park have been flooded, and some excellent ice provided which has been enjoyed by crowds of skaters; at the Central Hill Park, Nathan Tufts Park and Broadway Park, special police service has been furnished throughout the entire season, the police officers being on duty during afternoons and evenings, which has raised the character and increased the popularity of the city's public grounds, the parks having been more liberally patronized during the past season by visitors and bicycle riders than ever before.

In August the heirs of Nathan Tufts donated a new flag to be used on the old Powder House at Tufts Park.

An order was adopted by the City Council, April 11, 1898, naming the two parcels of land, Sanborn Field and Wyatt's Pit,

in Ward Two, recently purchased by the city for park purposes, Lincoln Park, and also for the laying out and constructing of the park according to a certain plan. (A copy of this plan was printed in the report of 1897.)

An appropriation of \$5,000.00 was made for a partial construction of this park. A roadway, 40 feet in width and 1,220 feet long, with an average fill of 3 feet 7 inches, has been subgraded, the athletic field leveled over and put in condition for surfacing, sewers and drains constructed, and the portion of the field around the old pit partially graded and filled. According to an agreement in the purchase, the roadway in this park must be completed by July 1, 1899. The athletic field can be finished for use during the coming year.

By an act of the Legislature, approved April 1, 1898, the City of Somerville was authorized to acquire and lay out land as a public park, located on the summit of Prospect Hill.

During the year about one half of the land in the area for this proposed park was purchased, being the Thompson Estate, located on the southwesterly side of Munroe (or High) street, opposite the intersections of Prospect Hill avenue and Greenville street, and comprising 1.32 acres, the city paying \$20,000.00 for the land, and the taxes for 1898, amounting to \$356.21. The remainder of the land for this park, the Hutchins and Jones Estates, may be purchased or taken any time within three years. The total area of this park will be 2.57 acres.

A number of sketches and considerable data have been prepared during the last year on projected boulevards; Chauncey and Winthrop avenues and a small piece of land from the northeast corner of Broadway Park have been taken by the Metropolitan Park Commission for the extension of the Fellsway boulevard to Broadway; the construction of this boulevard was completed as far as Mystic avenue, by the State, during the year, and when the extension is completed, the city will have an entrance to the driveways through Middlesex Fells.

Another proposed boulevard has been agitated, which would also be a direct entrance to the Fells; beginning at Powder House square, opposite the Tufts Park, and extending northwesterly across Tufts College and other private lands, along the

easterly bank of Alewife brook, to near the junction of Boston avenue and Mystic River, at the city of Medford boundary line. The property owners on the line of this proposed boulevard will contribute the necessary land, with but one or two exceptions, and probably during the next year the matter will be definitely settled, the city being unable to take this land for boulevard purposes without first obtaining authority from the Legislature.

When constructed, this drive would connect with the proposed boulevard extending from Mystic Lake along the banks of Mystic River to the Wellington bridge. On this river boulevard, considerable preliminary work was done the latter part of the year by the cities of Somerville and Medford in conjunction with the Metropolitan Park Commission.

The total area maintained by the Public Grounds department amounts to 50.2 acres.

CONDENSED TABLE SHOWING COST OF MAINTENANCE OF CITY'S PARKS FOR 1898.

	Broadway Park.	Broadway Parkway.	Central Hill Park.	Nathan Tufts Park.	Lincoln Park.	Somerville Ave. Cemetery.	Miscellaneous.
Labor, care of walks, drives, grass, etc.	\$1,086.82	\$126.00	\$800.17	\$640.40	\$ 99.38	\$26.00	.....
Labor, removing snow and ice from walks.	456.92	.....	208.69	.....	429.31	.....	.....
Labor, flooding pond and care of ice for skating.	320.90	.....	200.45	.....	.....	.....	.....
Labor, police service on park (including uniform)	51.00	.....	27.37	239.45	.....	.....	.....
Labor, trimming trees and destroying brown-tail moth	5.00	.....	20.00	15.00	.....	19.82	.....
Use of water, season of 1898	60.12	15.00	53.02	22.33	30.50	5.00	.....
Tools and sundry supplies	25.83	.....	20.10	11.50	.....	.....	.....
Repairs of tools and property	99.68	9.00	56.13	.....	.....	.....	.....
Teaming and use of horse on mower	53.85	.....	.....	24.90	.....	.....	.....
New settees, repairing and painting settees	56.50	.....	49.45	10.38	.....	.....	.....
Repairing walks and drives, materials	48.00	.....	.....	.....	.....	.....	.....
New flag, raising and lowering topmast	74.14	.....	.....	.....	.....	.....	.....
Constructing rockery in pond	286.00	164.00	350.00	100.00	.....	.....	.....
Plants, flowers, bulbs, and maintenance of same	.....	.....	.....	.....	.....	.....	.....
Totals, each park	\$2,624.76	\$314.00	\$1,785.38	\$1,063.96	\$571.41	\$50.82	\$26.00

TOTAL EXPENDITURE, maintenance \$6,436.33

CREDIT.

APPROPRIATION	\$6,000.00
INTEREST ACCOUNT	400.00
WEST END STREET RAILWAY CO.	50.00
SALE OF MATERIALS	15.30
UNEXPENDED BALANCE	6,465.30
	<u>\$28.97</u>

LINCOLN PARK, CONSTRUCTION, 1898.

Labor, laying out and grading park	\$1,446.06	
Teaming and rolling	281.02	
Underdraining field, pipe \$133.55, labor \$84.00	217.55	
Loam delivered, 317 cubic yards	64.46	
Labor, construction of roadway	571.00	
Filling delivered, 10,276 cubic yards	1,805.83	
Labor, care of dumping and grading at Wyatt's pit	353.50	
Tools and supplies	30.11	
Sewer assessment	218.34	
	<hr/>	
Total expended		\$4,987.87
Appropriation		5,000.00
		<hr/>
Unexpended balance		\$12.13

TABLE SHOWING TOTAL COST OF PARKS AS CONSTRUCTED.
(Exclusive of Maintenance.)

	Broadway Park (15.9 acres.)	Central Hill Park (13.1 acres.)	Nathan Tufts Park (4.5 acres.)	Lincoln Park (8.3 acres.)	Prospect Hill Park (1.3 acres.)
Cost of land purchased for park purposes.	\$126,257.10	\$104,186.00	\$19,424.55	\$37,592.92	\$20,356.21
First cost of laying out and constructing . .	86,138.57	31,624.70	33,404.83	5,602.87	
Total cost . . .	\$212,395.67	\$135,810.70	\$52,829.38	\$43,195.79	\$20,356.21

HIGHWAYS.

Ten streets have been accepted during the year, an aggregate length of nine-tenths of a mile, making the total length of public streets, fifty-six and thirty-eight one-hundredths miles.

Seventeen private streets have been added the past year, making a total length of thirty-two and twenty-four one-hundredths miles.

The sum total, public and private streets in the city, December 31, 1898, is eighty-eight and sixty-two one-hundredths miles.

During the year, eighteen thousand four hundred and thirty-two feet, or three and one-half miles, of edgestone have been set, and sixteen thousand nine hundred and eighty-seven yards of brick sidewalk constructed, making a total of about seventy-five and nine-tenths miles of edgestone and about fifty miles of brick sidewalk.

About one fourth of a mile of paved streets have been constructed the last year, making a total length of two and four-tenths miles of granite paved streets.

The latter part of the year the City Council granted a location to the Massachusetts Pipe Line Gas Company for laying two 36-inch supply mains in the highways across the easterly end of the city; the route extending from the Charlestown line through Washington street, Prospect street, Houghton street and Springfield street to Inman square, Cambridge.

The work of laying these large gas mains will necessitate a number of changes in the city's pipes.

WEBSTER AVENUE, PAVING.

(Between Fitchburg R. R. and Cambridge Line.)

During the year the remaining portion of Webster avenue has been paved with granite blocks, laid partly on a gravel foundation and partly on a concrete foundation, which completes the paving of the street its entire length. The labor and materials were furnished by contract at the following cost:—

1,320 sq. yds. (gravel foundation)	
granite block paving	\$ 633.60
1,767 sq. yds. (concrete foundation)	
granite block paving	2,279.43
	<hr/>
<i>Amount carried forward</i>	\$2,913.03

<i>Amount brought forward</i>	\$2,913.03	
2,214 lin. ft. of edgestone set and reset	354.24	
243 sq. yds. brick sidewalk relaid	89.91	
79.4 sq. yds. crosswalk laid and relaid (including 10 yds. concrete foundation)	49.70	
Extra work, cutting edgestone, flagging, etc.	25.30	
	<hr/>	\$3,432.18
73,679 granite blocks delivered	\$3,241.88	
7,080 bricks delivered	72.57	
219.8 lin. ft. edgestone de- livered	92.32	
22.2 lin. ft. edgestone delivered (circle)	12.43	
714.6 sq. ft. granite flagging delivered	168.23	
	<hr/>	3,587.43
Building catch-basin and chang- ing grade of manholes		81.19
Inspection of work		100.50
		<hr/>
Total cost		\$7,201.30

STREETS ACCEPTED IN 1898.

NAME OF STREET.	WARD.	FROM	To	Width in feet.	Length in feet.
Adrian	2	Marion st.	Joseph st. . .	40	579
Ashland	4	Summer st.	Sartwell ave. .	30	478
Chamwood road	4	Willow ave.	Gordonia road .	40	589
Cook	2	Marion st.	South Wyatt st.	40	268
Joy	1	Washington st. . . .	Poplar st. . . .	30	1,121
Kingston	4	End of street accepted in 1895	Cambridge line	40	19
Lowell	4	Crown st.	Highland ave. .	40	582
Marion	2	Concord ave	Adrian st. . .	40	261
Morton	1	Glen st.	Knowlton st. .	40	287
Winslow ave. . .	4	Grove st.	Clifton st. . .	40	572
Total					4,756

LENGTH OF ACCEPTED STREETS IN EACH WARD.

Ward One 8.3 miles.

Ward Two 11.7 miles.

Ward Three 17.15 miles.

Ward Four 19.23 miles.

 Total length of accepted streets in the city . . 56.38 miles.

TABLE SHOWING LOCATION AND COST OF EDGESTONES AND BRICK SIDEWALKS AND PAVED GUTTERS WHERE EDGESTONE WAS SET IN 1898.

STREET.	WARD.	SIDE.	FROM	To	WIDTH OF SIDEWALK IN FEET.	MATERIALS.		Cost.	PAVED GUTTERS.	
						Gravel and Edgestones Lineal Ft.	Bricks Sq. Yards		Sq. Yards	Cost.
Albion	3	Southwesterly	Central st.	Lowell st.	6.67	1,358.3	. . . . .	\$1,079.56	453	\$44.35
Ames	3	Southwesterly	Central st.	Bartlett st.	6.67	. . . . .	380.2	375.56	. . . . .	. . . . .
Banks	4	Both	Elm st.	Summer st.	6.67	1,300.1	. . . . .	1,050.31	434	537.10
*Beech	4	Northeasterly	Estate of Tyler	Estate of Hayden	7.80	103.2	64.0	139.21	34	70.95
Bonner ave.	2	Northwesterly	Homer square	Columbus ave.	6.67	. . . . .	126.7	140.95	. . . . .	. . . . .
Boston	2	Southwesterly	Prospect Hill ave.	Washington st.	7.50	36.7	426.8	417.85	. . . . .	. . . . .
Browning road	3	Southerly	Sycamore st.	Estate of Brown	6.67	376.7	252.0	528.60	126	125.13
Browning road	3	Northerly	Estate of Rich.	Estate of Sawyer	6.67	177.4	122.4	317.39	59	82.65
Burnside ave.	4	Southeasterly	Elm st.	Summer st.	6.67	736.2	. . . . .	632.53	245	354.90
Campbell park	4	Both	Meacham st.	Kingston st.	6.67	749.7	. . . . .	504.88	250	208.35
Claremont	4	Northwesterly	Holland st.	Mead st.	6.67	583.0	. . . . .	437.24	194	221.10
Columbus ave.	2	Southwesterly	Bonner st.	Estate of Hitchings	6.67	. . . . .	28.0	36.65	. . . . .	. . . . .
Concord ave.	2	Northerly	Estate of city of Somerville	Marion st.	6.67	. . . . .	280.0	269.23	. . . . .	. . . . .
Concord ave.	2	Southerly	Springfield st.	Leon st.	6.67	44.0	. . . . .	354.68	148	197.85
Concord ave.	2	Northerly	Marion st.	South Wyatt st.	6.67	342.8	220.1	435.88	114	149.17
Cutter ave.	4	Both	Summer st.	Highland ave.	6.67	1,905.1	. . . . .	726.93	335	369.07
Essex	3	Northwesterly	Medford st.	Richdale ave.	6.67	. . . . .	166.2	160.85	. . . . .	. . . . .
Francesca ave.	4	Both	Elm st.	Liberty ave.	6.67	. . . . .	1,068.1	1,017.44	. . . . .	. . . . .
Gilman	3	Southwesterly	Aldrich st.	Walnut st.	6.67	. . . . .	505.0	478.60	. . . . .	. . . . .
Grant	3	Both	Broadway	Jaques st.	6.67	979.9	. . . . .	729.26	326	385.00
Hancock	4	Southeasterly	Elm st.	Summer st.	6.67	776.9	. . . . .	692.09	266	390.40
Highland ave.	3&4	Northeasterly	Est. of Central Club Ass'n	Grove st.	10.00	. . . . .	4,945.7	4,938.13	. . . . .	. . . . .
(1)Highland ave.	2	Southwesterly	Walnut st.	Trull lane	10.00	. . . . .	648.1	631.94	. . . . .	. . . . .
Hudson	3	Northeasterly	Central st.	Lowell st.	6.67	. . . . .	930.0	893.15	. . . . .	. . . . .
Hudson	3	Southwesterly	Central st.	Lowell st.	6.67	. . . . .	889.0	920.00	. . . . .	. . . . .
Ibbetson	4	Southeasterly	Somerville ave.	Estate of Spring	6.67	378.2	. . . . .	273.14	126	314.80
Ibbetson	4	Northwesterly	Somerville ave.	Estate of Spring	6.67	344.1	. . . . .	263.82	115	314.80
Jenny Lind ave.	3	Both	Broadway	Medford st.	6.67	1,235.3	. . . . .	879.84	412	493.62
Joy	1	Southwesterly	Washington st.	Estate of city of Somerville	5.90	968.1	. . . . .	634.53	323	312.05
Medford	3	Northeasterly	School st.	Estate of Stickney Hrs.	8.33	. . . . .	332.6	316.37	. . . . .	. . . . .
Miner	3	Northwesterly	Ames st.	Vernon st.	6.67	. . . . .	167.6	182.80	. . . . .	. . . . .
Miner	3	Southeasterly	Ames st.	Vernon st.	6.67	. . . . .	173.6	184.30	. . . . .	. . . . .
(2)Monmouth	3	Southwesterly	Central st.	Estate of Pinkham	6.67	264.3	183.7	377.68	103	313.05
Montrose	3	Northeasterly	School st.	Sycamore st.	6.67	. . . . .	608.2	575.25	. . . . .	. . . . .
Morrison	4	Northeasterly	Est. of Univ. church	Estate of Rand	6.67	. . . . .	263.5	252.30	. . . . .	. . . . .
Morton	1	Both	Glen st.	Knowlton st.	6.67	627.4	. . . . .	429.46	209	238.35
Porter	4	Northwesterly	Highland ave.	Estate of Food & Cary	7.50	. . . . .	423.3	447.33	. . . . .	. . . . .
Robinson	3	Northeasterly	Central st.	Bartlett st.	6.67	. . . . .	441.4	460.70	. . . . .	. . . . .
Robinson	3	Southwesterly	Ames st.	Bartlett st.	6.67	501.0	. . . . .	377.42	167	187.30
*Russell	4	Northwesterly	Orchard st.	Cambridge line	6.67	240.7	. . . . .	168.14	80	111.45
Sargent ave.	3	Southeasterly	Estate of Hunkins	Angle	6.67	. . . . .	191.5	183.18	. . . . .	. . . . .
*School	3	Northwesterly	Montrose st.	Medford st.	8.33	268.5	227.3	421.06	89	180.38
Springfield	2	Both	Concord ave.	Cambridge line	6.67	. . . . .	1,056.9	1,001.98	. . . . .	. . . . .
Summer	4	Southwesterly	Craigie st.	Est. of Spaulding & Wallace	7.50	885.2	695.1	1,202.62	295	488.85
Tennyson	3	Northwesterly	Forster st.	Medford st.	6.67	. . . . .	321.4	337.38	. . . . .	. . . . .
Thurston	3	Northwesterly	Evergreen st.	Estate of Hunt	6.67	. . . . .	63.0	76.95	. . . . .	. . . . .
*Thurston	3	Northwesterly	Medford st.	Evergreen ave.	6.67	480.8	189.6	526.19	160	155.43
Trull	3	Northwesterly	Medford st.	Vernon st.	6.67	1,094.1	. . . . .	807.78	365	414.45
Webster ave.	2	Southeasterly	Prospect st.	Fitchburg Railroad	8.25	189.7	. . . . .	114.07	. . . . .	. . . . .
Wellington ave.	3	Southwesterly	Walnut st.	Estate of Marshall Hrs.	6.67	. . . . .	140.5	181.20	. . . . .	. . . . .
Wigglesworth	3	Southeasterly	Pearl st.	Otis st.	6.67	526.8	. . . . .	482.81	176	211.90
Wigglesworth	3	Northwesterly	Pearl st.	McGregor place	6.67	580.3	. . . . .	448.33	193	237.00
Wigglesworth	3	Southeasterly	Bonair st.	Otis st.	6.67	206.0	. . . . .	181.53	67	131.05
Totals						17,774.5	16,526.5	\$29,696.12	5,864.0	\$7,305.70

(1) Brick and grass strip. (2) Granolithic sidewalk. * Block stone in gutter.

LENGTH OF EDGESTONE AND BRICK SIDEWALK IN EACH WARD.

	EDGESTONE.	BRICK.
Ward One	13.88 miles	10.86 miles.
Ward Two	19.32 "	13.17 "
Ward Three	22.70 "	14.61 "
Ward Four	20.00 "	11.37 "
Total lengths in the city	75.90	50.00

WATER WORKS.

Lines, grades and miscellaneous data have been furnished the Water department when requested; all street mains, hydrants, gates, house services and connections have been accurately located and recorded in the Engineer's department, for future reference.

A number of blow-off connections have been made with the sewerage system for the purpose of emptying, when necessary, both the city's and Metropolitan water mains.

The new high-service reservoir being constructed by the State, in Middlesex Fells, will be completed during the coming year, and this city will be supplied with high-service pressure direct from this reservoir through the Metropolitan mains; this extra pressure can be utilized with benefit to this city in the matter of increased fire protection in the low areas by the construction of a separate system of high-pressure water mains covering the dangerous fire districts.

APPENDED TABLES.

Following are two tables of streets, one showing the location, length and width of public and private streets in the city; the other gives some of the names that present streets were formerly known as, or shown on old plans.

Respectfully submitted,

ERNEST W. BAILEY,

City Engineer.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Adams	Broadway	Medford st.	Public.	40	900	. . . . .
Adrian	Marion st.	Joseph st.	Public.	40	579	. . . . .
Albion pl.	Albion st.	Northeasterly	Private.	10	. . . . .	166
Albion ct.	Albion st.	Southwesterly	Private.	16	. . . . .	116
Albion	Central st.	Cedar st.	Public.	40	2,742	. . . . .
Albion	Broadway	Medford line	Private.	50	. . . . .	100
Albion terrace	Albion st.	Southwesterly	Private.	25	. . . . .	100
Aldersey	Walnut st.	Vinal ave.	Public.	40	508	. . . . .
Aldrich	Pearl st.	B. & L. R. R.	Public.	40	611	. . . . .
Alfred	Broadway	Medford line	Private.	50	. . . . .	50
Allen	Somerville ave.	Charlestown st.	Private.	25	. . . . .	680
Allen ct.	Park st.	Northwesterly	Private.	20	. . . . .	150
Alpine	Cedar st.	Southeasterly	Private.	30	. . . . .	670
Alpine	Alpine st.	Lowell st.	Public.	40	688	. . . . .
Alston	Cross st.	Shawmut pl.	Private.	40	. . . . .	420
Ames	Bartlett st.	Robinson st.	Public.	40	580	. . . . .
Appleton	Willow ave.	Clifton st.	Public.	40	510	. . . . .
Appleton	Clifton st.	Liberty ave.	Private.	40	. . . . .	120
Arlington	Franklin st.	Lincoln st.	Public.	40	440	. . . . .
Arnold ave.	Porter st.	Southeasterly	Private.	15	. . . . .	127
Arnold ct.	Beacon st.	Northeasterly	Private.	10	. . . . .	115
Arthur ct.	Linden st.	Easterly	Private.	about 10	. . . . .	100
Arthur	Broadway	Bonair st.	Public.	40	438	. . . . .
Ash ave.	Meacham st.	Northeasterly	Private.	40	. . . . .	705
Ashland	Summer st.	Sartwell ave.	Public.	30	478	. . . . .
Atherton	Central st.	Beech st.	Private.	40	. . . . .	264
Auburn ave.	Cross st.	B. & L. R. R.	Private.	30	. . . . .	600
Austin	Broadway	Mystic ave.	Public.	40	680	. . . . .
Autumn	Broadway	Bonair st.	Private.	20	. . . . .	420
Avon	School st.	Central st.	Public.	40	1,360	. . . . .
Avon pl.	Cross st.	B. & L. R. R.	Private.	25	. . . . .	150
Ayer ave.	Morrison ave.	Boston ave.	Private.	70	. . . . .	1,500
Banks	Elm st.	Summer st.	Public.	40	639	. . . . .
Bartlett	Vernon st.	Medford st.	Public.	40	820	. . . . .
Bartlett	Medford st.	Broadway.	Private.	40	. . . . .	730
Bartlett	Washington st.	Asylum grounds	Private.	20	. . . . .	200
Bay State ave.	Broadway	Fosket st.	Private.	40	. . . . .	1,197
Beach ave.	Webster ave.	Columbia st.	Private.	about 20	. . . . .	200
Beacon pl.	Beacon st.	Northeasterly	Private.	15	. . . . .	200
Beacon	Cambridge line	Somerville ave.	Public.	66	6,100	. . . . .
Beacon ter.	Somerville ave.	Northeasterly	Private.	24	. . . . .	110
Bean's ct.	Cutter st.	Southeasterly	Private.	16	. . . . .	100
Bedford	South st.	Cambridge line	Private.	30	. . . . .	160
Beech	Somerville ave.	Spring st.	Public.	40	800	. . . . .
Bellevue ter.	Albion st.	Northeasterly	Private.	20	. . . . .	90
Belmont	Somerville ave.	Highland ave.	Public.	40	2,175	. . . . .
Belmont pl.	Belmont st.	Southeasterly	Private.	25	. . . . .	175
Benedict ave.	Broadway	Benedict st.	Private.	20	. . . . .	200
Benedict	Union st.	Austin st.	Public.	40	600	. . . . .
Bennett ct.	Bennett st.	Prospect st.	Private.	10	. . . . .	100
Bennett	Prospect st.	Bennett ct.	Private.	40 to 25	. . . . .	400
Benton road	Summer st.	Highland ave.	Private.	40	. . . . .	924
Benton ave.	Highland ave.	Hudson st.	Public.	40	286	. . . . .
Berkeley	School st.	Central st.	Public.	40	1,360	. . . . .
Berwick	Lawrence st.	Northwesterly	Private.	20	. . . . .	170
Bigelow	Boston st.	High st.	Public.	50	208	. . . . .
Billingham	Broadway	William st.	Public.	40	563	. . . . .
Bishop's pl.	Glen st.	Easterly	Private.	10	. . . . .	75
Blakeley ave.	Winthrop ave.	Cross st.	Private.	40	. . . . .	630
Bleachery ct.	Somerville ave.	Fitchburg R. R.	Private.	30	. . . . .	450
Bolton	Oak st.	Houghton st.	Private.	40	. . . . .	500

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS. — *Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Bonair	Cross st. . . .	Walnut st. . . .	Public.	40	1,470	.. . .
Bond	Broadway . . .	Jaques st. . . .	Public.	40	640	.. . .
Bonner ave. . .	Washington st.	Columbus ave. . .	Public.	40	450	.. . .
Boston ave. . .	Medford line . .	Mystic river . . .	Public.	60	910	.. . .
Boston ave. . .	Broadway	Medford line . . .	Public.	50	80	.. . .
Boston ave. . .	Cedar st.	Broadway	Private.	50	.. . .	1,120
Boston	Washington st.	Prospect Hill ave.	Public.	45	630	.. . .
Boston	Prospect Hill av.	Walnut st.	Public.	40	1,250	.. . .
Bow	Union sq.	Wesley sq.	Public.	60	600	.. . .
Bow	Wesley pk. . . .	Somerville ave. . .	Public.	50	500	.. . .
Bowdoin	Washington st.	Southerly	Private.	40	.. . .	370
Bowers ave. . .	Cottage ave. . . .	Elm st.	Private.	24	.. . .	288
Bow St. pl. . . .	Bow st.	Northwesterly . . .	Private.	40	.. . .	300
Bradford ave. . .	School st.	Southeasterly . . .	Private.	40	.. . .	150
Bradley	Pearl st.	Walter st.	Public.	40	762	.. . .
Brastow ave. . .	Lowell st.	Porter st.	Public.	40	686	.. . .
Bristol road . . .	Broadway	Medford line . . .	Private.	40	.. . .	98
Broadway	Charlestown line	Cross st.	Public.	100	2,590	.. . .
Broadway	Cross st.	Marshall st.	Public.	100 to 200	2,060	.. . .
Broadway	Marshall st. . . .	Main st.	Public.	100	1,570	.. . .
Broadway	Main st.	Top of hill	Public.	100 to 90	1,030	.. . .
Broadway	Top of hill	Albion st.	Public.	90	2,540	.. . .
Broadway	Albion st.	Willow ave.	Public.	90 to 70	1,030	.. . .
Broadway	Willow ave.	Paulina st.	Public.	70	3,250	.. . .
Broadway	Paulina st.	Arlington line . . .	Public.	65	3,220	.. . .
Broadway pl. . .	Broadway	Southwesterly . . .	Private.	22	.. . .	250
Bromfield road .	Elm st.	Professors' row . . .	Private.	40	.. . .	1,260
Brook	Glen st.	Cross st.	Public.	40	500	.. . .
Brook	Dover st.	Northerly	Private.	40	.. . .	200
Browning road . .	Sycamore st.	Central st.	Public.	40	679	.. . .
Buckingham . . .	Beacon st.	Dimick st.	Public.	40	300	.. . .
Burnside ave. . .	Elm st.	Summer st.	Public.	40	720	.. . .
Caldwell pl. . . .	Washington st.	Southerly	Private.	20	.. . .	210
Calvin	Beacon st.	Dimick st.	Private.	40	.. . .	250
Calvin	Dimick st.	Washington st. . . .	Private.	30	.. . .	395
Cambria	Central st.	Benton ave.	Public.	40	488	.. . .
Cameron ave. . .	Holland st.	Cambridge line . . .	Public.	60	1,000	.. . .
Campbell pk. . . .	Meacham st.	Kingston st.	Public.	40	399	.. . .
Campbell Pk. pl.	Kingston st.	Arlington Br. R.R. . .	Private.	20	.. . .	84
Carlton	Somerville ave. . .	Lake st.	Public.	40	300	.. . .
Carver	Porter st.	Northwesterly . . .	Private.	40	.. . .	156
Cedar ave.	Cedar st.	Linden ave.	Private.	22	.. . .	290
Cedar St. pl. . . .	Murdock st.	Southwesterly . . .	Private.	20	.. . .	220
Cedar St. pl. . . .	Cedar n'r Elm st.	Southeasterly . . .	Private.	12+	.. . .	80+
Cedar	Elm st.	Broadway	Public.	40	4,150	.. . .
Central	Somerville ave. . .	Summer st.	Public.	33	1,150	.. . .
Central	Summer st.	Medford st.	Public.	40	2,480	.. . .
Central	Medford st.	Broadway	Public.	45	1,070	.. . .
Centre	Albion st.	B. & L. R. R.	Private.	35	.. . .	200
Chandler	Park ave.	Broadway	Public.	40	1,232	.. . .
Chapel	Elm st.	Chandler st.	Public.	40	273	.. . .
Chapel ct.	Sycamore st.	Northwesterly . . .	Private.	12	.. . .	130
Charles	Washington st.	Asylum grounds . .	Private.	30	.. . .	200
Charlestown . . .	Allen st.	Easterly	Private.	15	.. . .	400
Charnwood road .	Willow ave.	Gordonia road	Public.	40	589	.. . .
Chauncey ave. . .	Broadway	Mystic ave.	Public.	50	1,320	.. . .
*Chelsea	Mystic ave.	Melrose st.	Private.	50	.. . .	1,390
Cherry	Elm st.	Highland ave.	Public.	45	1,450	.. . .
Chester	Elm st.	Cambridge line . . .	Public.	40	850	.. . .
Chester ave. . . .	Medford st.	Angle	Public.	about 22	220	.. . .
Chester ave. . . .	Angle	Cross st.	Private.	20	.. . .	445
Chester pl.	Chester st.	Northwesterly . . .	Private.	40	.. . .	200
Chestnut	Poplar st.	Southeasterly . . .	Private.	40	.. . .	540

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS. — *Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Church	Summer st. . . .	Somerville ave. . .	Public.	40	560	. . . .
Church (south) .	Somerville ave.	Lake st.	Public.	40	340	. . . .
Church St. pl. .	Church st. (s'th)	Northwesterly . . .	Private.	25	. . . .	170
Claremon	Holland st. . . .	Mead st.	Public.	40	560	. . . .
Clarendon ave. .	Broadway	Cambridge line . . .	Private.	40	. . . .	1,210
Clark	Newton st.	Northwesterly . . .	Private.	35	. . . .	450
Cleveland	Central st.	Elm place	Private.	40	. . . .	270
Clifton	Appleton st.	Morrison st.	Public.	40	240	. . . .
Clifton	Morrison st.	Arlington Br.R.R.	Private.	40	. . . .	220
Clyde	Cedar st.	Murdock st.	Private.	30	. . . .	600
College ave. . . .	Broadway	Medford line	Public.	50	1,700	. . . .
Columbia	Glass House ct.	Cambridge line . . .	Private.	40	. . . .	550
Columbia ct. . . .	Columbia st.	Webster ave.	Private.	9	. . . .	150
Columbus ave. . .	Land of Clark . . .	Walnut st.	Public.	40	1,000	. . . .
Columbus ct. . . .	Washington st. . . .	Northerly	Private.	30	. . . .	100
Concord ave. . . .	Prospect st.	Leon st.	Public.	40	1,500	. . . .
Concord ave. . . .	Leon st.	Beacon st.	Private.	30	. . . .	470
Congress pl. . . .	Linwood st.	Southwesterly . . .	Private.	16	. . . .	200
Conlon ct.	Columbia st.	Easterly	Private.	20	. . . .	200
Conwell ave. . . .	Curtis st.	Westerly	Private.	40	. . . .	600
Conwell	Highland ave. . . .	Southwesterly . . .	Private.	35	. . . .	360
Cook	Marion st.	So. Wyatt st.	Public.	40	268	. . . .
Cook	So. Wyatt st.	Northwesterly . . .	Private.	40	. . . .	182
Cooney	Beacon st.	Line st.	Private.	26	. . . .	220
Cottage ave. . . .	Russell st.	Chester st.	Public.	40	500	. . . .
Cottage circle . .	Cottage ave.	Southwesterly . . .	Private.	25	. . . .	87
Cottage pl.	Washington st. . . .	Northwesterly . . .	Private.	about 11	. . . .	150
Craigie	Somerville ave. . . .	Summer st.	Public.	50	1,250	. . . .
Crescent	Washington st. . . .	Pearl st.	Private.	30 to 38	. . . .	650
Crocker	Highland ave. . . .	Crown st.	Public.	40	528	. . . .
Cross	Medford St.	Broadway	Public.	45	2,650	. . . .
Cross	Broadway	Mystic ave.	Public.	40	1,100	. . . .
Cross St. pl. . . .	Cross St.	Northwesterly . . .	Private.	24	. . . .	150
Crown	Porter st.	Lowell st.	Private.	30	. . . .	700
Curtis	Broadway	Medford line	Public.	40	2,300	. . . .
Cutler	Lawrence st.	Northwesterly . . .	Private.	20	. . . .	170
Cutter	Broadway	Webster st.	Public.	40	740	. . . .
Cutter ave.	Summer st.	Highland ave. . . .	Public.	40	430	. . . .
Cypress	Central st.	Beech st.	Public.	40	262	. . . .
Dana	Bonair st.	Pearl st.	Public.	40	690	. . . .
Dane	Somerville ave. . . .	Washington st. . . .	Public.	40	1,270	. . . .
Dane ave.	Dane st.	Easterly	Private.	30	. . . .	600
Dartmouth	Medford st.	Broadway	Public.	40	1,450	. . . .
Day	Elm st.	Cambridge line . . .	Public.	40	940	. . . .
*Dean ave.	Morrison ave.	Boston ave.	Private.	40	. . . .	1,145
Delaware	Aldrich st.	Pearl st.	Public.	40	451	. . . .
Dell	Glen st.	Tufts st.	Public.	40	466	. . . .
Derby	Temple st.	Grant st.	Public.	40	831	. . . .
Derby	Grant st.	Wheatland st. . . .	Private.	40	. . . .	200
Dexter	Broadway	Medford line	Private.	50	. . . .	25
Dickinson	Springfield st. . . .	Beacon st.	Public.	40	770	. . . .
Dickson	Broadway	Fairmount ave. . . .	Private.	40	. . . .	271
Dimick	Concord ave.	Calvin st.	Private.	40	. . . .	860
Distillhouse . . .	South st.	Cambridge line . . .	Private.	35	. . . .	150
Dix pl.	Linwood st.	Southwesterly . . .	Private.	10	. . . .	100
Dover	Elm st.	Cambridge line . . .	Public.	40	940	. . . .
Dow	North st.	Easterly	Private.	40	. . . .	645
Downer pl.	Downer st.	B. & L. R. R. . . .	Private.	20	. . . .	125
Downer	Nashua st.	Southeasterly . . .	Private.	20	. . . .	120
Dresden circle . .	Cutter ave.	Westerly	Private.	30	. . . .	133
Durham	Beacon st.	Hanson st.	Private.	40	. . . .	450
Earle	South st.	Fitchburg R. R. . .	Private.	30	. . . .	322

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS. — *Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
East Albion . . .	Mt. Vernon ave.	E. of Moreland st.	Private.	25	. . .	188
East Albion . . .	E. of Moreland st.	Medford line . . .	Private.	40	. . .	490
Eastman pl. . . .	Highland ave. . .	Southwesterly . . .	Private.	40	. . .	300
*Edgeworth . . .	Mystic ave. . . .	Melrose st. . . .	Private.	50	. . .	1,380
Edmands	Broadway	Southwesterly . . .	Private.	40	. . .	525
Edmonton ave. . .	Cross st.	Winthrop ave. . . .	Private.	40	. . .	630
Electric ave. . . .	Curtis st.	Packard ave.	Public.	40	681	. . .
Eliot	Vine st.	Park st.	Public.	40	260	. . .
Ellington road . .	Highland ave. . .	Northeasterly . . .	Private.	35	. . .	120
Ellington road . .	West st.	Northwesterly . . .	Private.	30	. . .	405
Ellsworth	Cross st.	Rush st.	Public.	40	210	. . .
Elm ct.	Villa ave.	Northwesterly . . .	Private.	18	. . .	70
Elm pl.	Harvard st. . . .	East'y & west'y	Private.	30	. . .	400
Elm	Somerville ave.	Cherry st.	Public.	63	1,500	. . .
Elm	Cherry st.	White st.	Public.	63 to 60	330	. . .
Elm	White st.	Banks st.	Public.	60	660	. . .
Elm	Banks st.	Beech st.	Public.	60 to 77.5	290	. . .
Elm	Beech st.	Tenney st.	Public.	77.5 to 60	570	. . .
Elm	Tenney st.	Medford line . . .	Public.	60	4,300	. . .
Elmwood	Holland st. . . .	Cambridge line . .	Private.	40	. . .	970
Elmwood ter. . . .	Elmwood st. . . .	Easterly	Private.	20	. . .	190
Elston	Elm st.	Summer st.	Public.	40	396	. . .
Emerson	Everett st.	Newton st.	Private.	30	. . .	170
Emery	Fitchburg R.R.	South st.	Private.	30	. . .	335
Endicott ave. . . .	Broadway	Southwesterly . . .	Private.	40	. . .	800
Essex	Medford st. . . .	Richdale ave. . . .	Public.	40	232	. . .
Eustis	Beacon st.	Southwest	Private.	30	. . .	150
Everett	Webster ave. . . .	Newton st.	Private.	30	. . .	350
Everett ave. . . .	Cross st.	Dana st.	Public.	40	800	. . .
Evergreen ave. . .	Marsh ill st. . . .	Sycamore st.	Public.	40	1,320	. . .
Evergreen sq. . . .	Porter st.	Southeasterly . . .	Private.	8	. . .	200
Fairlee	Cherry st.	Northwesterly . . .	Private.	30	. . .	150
Fairmount ave. . .	Curtis st.	Northwesterly . . .	Private.	40	. . .	700
Fairview ter. . . .	Sycamore st.	Southwesterly . . .	Private.	15	. . .	173
Fanning ave. . . .	Highland ave. . .	Lexington ave. . . .	Public.	50	376	. . .
Farragut ave. . . .	Broadway	Southwesterly . . .	Private.	40	. . .	840
Fenwick	Broadway	Heath st.	Public.	40	340	. . .
Fisk ave.	Hinckley st. . . .	Lowell st.	Private.	20 & 25	. . .	460
Fitchburg ct. . . .	Fitchburg st. . . .	Southeasterly . . .	Private.	10	. . .	225
Fitchburg	Linwood st.	B. & L. R. R. . . .	Private.	40	. . .	400
Flint ave.	Flint st.	Northerly	Private.	40	. . .	200
Flint	Franklin st. . . .	Aldrich st.	Public.	40	1,773	. . .
Florence	Washington st. . .	Perkins st.	Public.	40	1,280	. . .
Florence ter. . . .	Jaques st.	Southwesterly . . .	Private.	20	. . .	90
Forest	Beacon st.	Cambridge line . .	Public.	40	150	. . .
Forster	Sycamore st.	Central st.	Private.	30	. . .	430
Fosket	Willow ave.	Liberty ave.	Private.	40	. . .	670
Fountain ave. . . .	Cross st.	Glen st.	Private.	30	. . .	550
Francesca ave. . . .	Elm st.	Liberty ave.	Public.	40	762	. . .
Francis	Porter st.	Conwell st.	Private.	30	. . .	180
Franklin ave. . . .	Washington st. . .	Franklin st.	Private.	20	. . .	500
Franklin ct.	Somerville ave.	B. & L. R. R. . . .	Private.	. . .	. . .	200
Franklin pl.	Franklin st. . . .	Southeasterly . . .	Private.	15	. . .	100
Franklin	Broadway	Washington st. . .	Public.	40+	2,230	. . .
*Frederick ave. . .	Willow ave.	Cedar st.	Private.	45	. . .	1,360
Fremont ave. . . .	Parker st.	East'y & West'y	Private.	30	. . .	235
Fremont	Main st.	Near Mystic ave. . .	Private.	40	. . .	1,397
Frost ave.	Somerville ave.	Dane st.	Private.	35	. . .	550
Garden ct.	Somerville ave.	Fitchburg R. R. . .	Private.	25	. . .	370
Garfield ave. . . .	Broadway	Middlesex ave. . . .	Private.	40	. . .	1,430
Garrison ave. . . .	Broadway	Southwesterly . . .	Private.	40	. . .	850
George	Broadway	Lincoln ave.	Private.	30	. . .	350

* Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.— *Continued.*

STREET.	FROM	TO	Public or Private	Width in Feet.	LENGTH.	
					Public.	Private.
Gibbens	Central st. . . .	Benton ave. . . .	Public.	40	492	. . . .
Giles pl.	Walnut st. . . .	Northwesterly . . .	Private.	32.71	. . . .	168
Gill's ct.	Franklin st. . . .	Westerly	Private.	10	. . . .	100
Gilman	Cross st.	Walnut st.	Public.	40	1,430	. . . .
Gilman ter. . . .	Pearl st.	Northeasterly . . .	Private.	40	. . . .	360
Gilson ter. . . .	Linden ave. . . .	Northwesterly . . .	Private.	20	. . . .	124
Glass House ct.	Webster ave. . . .	Easterly	Private.	40	. . . .	200
Glen	Broadway	Tufts st.	Public.	40	2,300	. . . .
Glendale ave. . .	Cameron ave. . . .	Yorktown st. . . .	Private.	40	. . . .	410
Glover circle . .	Meacham st. . . .	Southeasterly . . .	Private.	20	. . . .	110
Gordonia road . .	Summer st.	Highland ave. . . .	Private.	40	. . . .	521
Gorham	Holland st.	Howard st.	Public.	40	763	. . . .
Gould ave.	Porter st.	Southeasterly . . .	Private.	16	. . . .	156
Grand View ave.	Walnut st.	Vinal ave.	Public.	40	470	. . . .
Granite	Somerville ave. . .	Osgood st.	Private.	40	. . . .	400
Grant	Broadway	Jaques st.	Public.	40	536	. . . .
Grant	Jaques st.	Mystic ave.	Private.	40	. . . .	814
Greene	Summer st.	Laurel st.	Public.	40	555	. . . .
Greenville	Medford st.	High st.	Public.	40	660	. . . .
Greenwood ter. .	Beacon st.	Northeasterly . . .	Private.	25	. . . .	165
Grove	Elm st.	Morrison st.	Public.	40	985	. . . .
Hadley ct	Franklin st. . . .	Westerly	Private.	20	. . . .	150
Hall ave.	Elm st.	Liberty ave.	Public.	40	926	. . . .
Hall	Cedar st.	Cherry st.	Private.	30	. . . .	350
Hamlet	Highland ave. . . .	Southwesterly . . .	Private.	30	. . . .	400
Hammond	Dickinson st. . . .	Concord ave.	Private.	40	. . . .	273
Hancock	Elm st.	Summer st.	Public.	40	781	. . . .
Hanson ave. . . .	Hanson st.	Easterly	Private.	30	. . . .	252
Hanson	Washington st. . . .	Vine st.	Private.	35	. . . .	750
Harding	South st.	Cambridge line . . .	Private.	30	. . . .	115
Harris	Beacon st.	Cambridge line . . .	Private.	35	. . . .	150
Harrison	Ivaloo st.	Kent st.	Public.	40	644	. . . .
Harrison	Elmwood st.	Southeasterly . . .	Private.	40	. . . .	210
Harvard pl. . . .	Harvard st.	Westerly	Private.	35	. . . .	200
Harvard	Summer st.	Beech st.	Public.	40	650	. . . .
Hathorn	Broadway	Arlington st.	Public.	40	330	. . . .
Hawkins	Somerville ave. . . .	Washington st. . . .	Public.	40	330	. . . .
Hawthorne	Willow ave.	Cutter ave.	Private.	30	. . . .	810
Hayden ter. . . .	Linden ave.	Easterly	Private.	20	. . . .	120
Heath	Temple st.	Bond st.	Public.	45	1,043	. . . .
Heath	Bond st.	Moreland st.	Private.	45	. . . .	750
Henderson	Richardson st. . . .	B. & L. R. R. . . .	Private.	20	. . . .	535
Hennessey ct. . .	Medford st.	Fisk ave.	Private.	20	. . . .	250
Henry ave.	Highland ave. . . .	Lexington ave. . . .	Private.	40	. . . .	290
Herbert	Chester st.	Day st.	Public.	40	360	. . . .
Hersey	Berkeley st.	Oxford st.	Private.	40	. . . .	230
Highland ave. . .	Medford st.	Davis sq.	Public.	60	9,100	. . . .
Hill	Broadway	Fairmount ave. . . .	Private.	40	. . . .	286
Hillside ave. . . .	Pearl st.	Southwesterly . . .	Private.	30	. . . .	150
Hillside pk. . . .	Walnut st.	Northwesterly . . .	Private.	40	. . . .	245
Hinckley	Broadway	Lawrence st.	Private.	30	. . . .	430
Hodgdon pl. . . .	Dane ct.	Northeasterly . . .	Private.	about 20	. . . .	150
Holland	Davis sq.	Broadway	Public.	60	2,650	. . . .
Holt's ave.	Oak st.	Southeasterly . . .	Private.	10	. . . .	100
Homer sq.	Bonner ave.	Northwesterly . . .	Private.	30+	. . . .	200
Horace	South st.	Fitchburg R. R. . . .	Private.	30	. . . .	510
Houghton	Oak st.	Springfield st. . . .	Public.	40	204	. . . .
Houghton	Springfield st. . . .	Prospect st.	Private.	40	. . . .	546
Howard	Thorndike st. . . .	Gorham st.	Private.	40	. . . .	430
Howard	Whipple st.	Willow ave.	Private.	30	. . . .	255
Howe	Marshall st.	School st.	Public.	40	445	. . . .
Hudson	Central st.	Cedar st.	Public.	40	2,760	. . . .
Hunting	South st.	Cambridge line . . .	Private.	30	. . . .	125

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.— *Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Ibbetson	Somerville ave.	Lowell st. . . .	Public.	40	802	. . . .
Irving	Holland st. . . .	Broadway	Public.	40	1,180	. . . .
Ivaloo	Beacon st. . . .	Park st.	Public.	40	650	. . . .
Jackson	Medford st. . . .	Maple st.	Private.	30	. . . .	150
James	Pearl st.	Veazie st.	Public.	40	320	. . . .
Jaques	Chauncey ave. . .	Temple st.	Public.	40	1,200	. . . .
Jaques	Temple st.	Bond st.	Public.	45	1,050	. . . .
Jasper pl.	Jasper st.	Walnut st.	Private.	20	. . . .	225
Jasper	Pearl st.	Gihnan st.	Private.	40	. . . .	300
Jay	Holland st.	Howard st.	Public.	40	534	. . . .
Jenny Lind ave. . .	Vernon st.	Broadway	Public.	40	1,507	. . . .
Jerome ct.	Sycamore st. . . .	Jerome st.	Private.	10	. . . .	150
Jerome	Montrose st. . . .	Jerome ct.	Private.	20	. . . .	125
Joseph	Newton st.	Northwesterly	Public.	40	385	. . . .
Josephine ave. . .	Morrison ave. . . .	Broadway	Private.	45	. . . .	1,715
Joy	Washington st. . .	Poplar st.	Public.	30	1,121	. . . .
Joy St. pl.	Joy st.	Southwesterly . .	Private.	30	. . . .	175
Kensington ave. . .	Broadway	Blakeley ave. . . .	Private.	40	. . . .	440
Kent ct.	Kent st.	Northerly	Private.	about 25	. . . .	420
Kent	Somerville ave. . .	Fitchburg R. R. . .	Public.	40 [^]	292	. . . .
Kent	Fitchburg R. R. . .	Beacon st.	Public.	25	286	. . . .
Kenwood	Elm st.	Billingham st. . . .	Public.	40	322	. . . .
Kidder ave.	Elm st.	Liberty ave.	Public.	40	625	. . . .
Kidder ave.	Liberty ave.	Willow ave.	Private.	40	. . . .	655
Kilby	Somerville ave. . .	Southwesterly . . .	Private.	20	. . . .	180
Kimball	Lowell st.	Craigie st.	Private.	40	. . . .	303
Kingman ct.	Washington st. . . .	Fitchburg R. R. . .	Private.	25	. . . .	400
Kingston	Meacham st.	Cambridge line . . .	Public.	40	647	. . . .
Knapp	School st.	Granite st.	Public.	40	379	. . . .
Knowlton	Oliver st.	Tufts st.	Private.	40	. . . .	925
Lake	Hawkins st.	Church st.	Public.	40	860	. . . .
Lamson ct.	Linwood st.	Poplar st.	Private.	20	. . . .	370
Landers	School st.	Westerly	Private.	40	. . . .	280
Laurel ave.	Laurel st.	Northwesterly . . .	Private.	18	. . . .	125
Laurel	Somerville ave. . .	Summer st.	Public.	40	940	. . . .
Lawrence	Hinckley st.	B. & L. R. R. . . .	Private.	35	. . . .	650
Lawrence	Boston ave.	Southwesterly . . .	Private.	35	. . . .	710
Lawson ter.	Putnam st.	Easterly	Private.	5	. . . .	200
Lee	Medford st.	Richdale ave.	Public.	40	385	. . . .
Leland	Washington st. . . .	Northeasterly	Private.	40	. . . .	250
Leon	Concord ave.	Dickinson st.	Public.	40	155	. . . .
Leonard pl.	Joy st.	Northeasterly	Private.	13+	. . . .	98
Lesley ave.	Highland ave. . . .	Lexington ave. . . .	Private.	40	. . . .	333
Leslie pl.	Highland ave. . . .	Northerly	Private.	12	. . . .	75
Lester ter.	Meacham st.	Northwesterly	Private.	20	. . . .	190
Lexington ave. . . .	Willow ave.	Cedar st.	Private.	50	. . . .	1,360
Liberty ave.	Appleton st.	Broadway	Private.	40	. . . .	1,495
Lincoln ave.	Lincoln st.	Mt. Vernon st. . . .	Private.	40	. . . .	450
Lincoln pl.	Lincoln ave.	Northerly	Private.	9	. . . .	120
Lincoln	Broadway	Perkins st.	Public.	40	550	. . . .
Linden ave.	Elm st.	Summer st.	Public.	45	1,050	. . . .
Linden ave.	Summer st.	Northeasterly	Private.	45	. . . .	250
Linden circle	Linden ave.	Southeasterly	Private.	24	. . . .	120
Linden pl.	Linden ave.	Northwesterly	Private.	20	. . . .	160
Linden	Somerville ave. . . .	Fitchburg R. R. . . .	Private.	30	. . . .	705
Line	Washington st. . . .	Cambridge line	Private.	33	. . . .	1,750
Linehan ct.	Linwood st.	Chestnut st.	Private.	about 15	. . . .	200
Linwood pl.	Linwood st.	Southwesterly	Private.	about 12	. . . .	150
Linwood	Somerville ave. . . .	Washington st. . . .	Public.	50	2,050	. . . .
London	Linwood st.	B. & L. R. R. . . .	Private.	40	. . . .	340
Loring	Somerville ave. . . .	Northeasterly	Private.	40	. . . .	460

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS. — *Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Louisburg pl.	Autumn st.	Easterly	Private.	13	...	90
Lovell	Broadway	Electric ave.	Private.	40	...	385
Lowden ave.	Broadway	Fosket st.	Private.	40	...	1,205
Lowell	Somerville ave.	Crown st.	Private.	33+	...	1,608
Lowell	Crown st.	Albion st.	Public.	40	972	...
Lowell	Albion st.	L. & A. Br'ch R.R.	Private.	40	...	540
Lowell	B. & L. R. R.	Vernon st.	Private.	33+	...	60
Lowell	Vernon st.	Medford st.	Public.	40	1,141	...
Lowell ter.	Lowell st.	Northwesterly	Private.	20	...	150
Madison	School st.	Sycamore st.	Public.	40	891	...
Main	Broadway	Medford line	Public.	50	950	...
*Malden	Mystic ave.	Melrose st.	Private.	50	...	1,360
Mallet	Willow ave.	Liberty ave.	Private.	40	...	580
Malloy ct.	Somerville ave.	Merriam st.	Private.	30	...	255
Malvern ave.	Cameron ave.	Yorktown st.	Private.	40	...	410
Mansfield	Somerville ave.	Washington st.	Private.	40	...	730
Maple ave.	School st.	Southeasterly	Private.	40	...	300
Maple pl.	Marshall st.	Maple ave.	Private.	5	...	125
Maple	Poplar st.	Jackson st.	Private.	30	...	470
Marion	Concord ave.	Adrian st.	Public.	40	261	...
Marshall	Broadway	Pearl st.	Public.	40	1,650	...
Mason ave.	Orchard st.	Cambridge line	Private.	35	...	220
May pl.	Hawkins st.	Easterly	Private.	12	...	100
McCulphie pl.	Medford st.	Easterly	Private.	10	...	110
McGregor pl.	Wigglesworth st	Walnut st.	Private.	about 10	...	250
Meacham	Arlington B R R	Cambridge line	Public.	40	658	...
Meacham	Mt. Vernon ave.	Medford line	Private.	40	...	800
Mead	Cameron ave.	Moore st.	Private.	40	...	340
Medford	Cambridge line	Central st.	Public.	50	8,150	...
Medford	Central st.	Broadway	Public.	55	1,950	...
Melburn pl.	Summer st.	Northeasterly	Private.	30	...	125
Melledew ct.	Belmont st.	Easterly	Private.	15	...	137
Melrose	Mystic ave.	Middlesex ave.	Private.	50	...	2,310
Melvin	Broadway	Bonair st.	Private.	40	...	487
Merriam ave.	Merriam st.	Malloy ct.	Private.	15	...	255
Merriam	Somerville ave.	Charlestown st.	Private.	30	...	500
Middlesex ave.	Mystic ave.	Medford line	Public.	60	3,400	...
Milk pl.	Somerville ave.	Southwesterly	Private.	about 30	...	100
Miller	Sacramento st.	Northwesterly	Private.	33	...	350
Miner	Vernon st.	Ames st.	Public.	40	244	...
Mondamin ct.	Ivaloo st.	Harrison st.	Private.	25	...	250
Monmouth	End of above.	Harvard st.	Private.	35	...	200
Monmouth	Central st.	Westerly	Public.	40	267	...
Montgomery ave	Broadway	Wellington ave.	Public.	40	265	...
Montrose ct.	Montrose st.	B. & L. R. R.	Private.	12	...	110
Montrose	School st.	Sycamore st.	Public.	40	886	...
Moore	Holland st.	Mead st.	Public.	40	695	...
Moreland	Main st.	Mystic ave.	Private.	40	...	1,513
Morgan	Beacon st.	Park st.	Public.	40	350	...
Morrison ave.	Willow ave.	Cedar st.	Private.	50	...	1,366
Morrison pl.	Morrison st.	Northerly	Private.	20	...	190
Morrison pl.	Morrison pl.	Easterly	Private.	15	...	175
Morrison	Willow ave.	Elm st.	Public.	40	1,700	...
Mortimer pl.	Marshall st.	Southeasterly	Private.	20	...	225
Morton	Glen st.	Knowlton st.	Public.	40	287	...
Mossland	Somerville ave.	Elm st.	Public.	40	350	...
Mountain ave.	Linden ave.	Porter st.	Private.	22	...	310
Mousal pl.	North Union st.	B. & M. R. R.	Private.	20	...	200
Mt. Pleasant ave.	Curtis st.	Northwesterly	Private.	40	...	700
Mt. Pleasant ct.	Perkins st.	Southwesterly	Private.	40	...	260
Mt. Pleasant	Broadway	Perkins st.	Public.	33	570	...
Mt. Vernon ave.	Main st.	Meacham st.	Private.	50	...	800
Mt. Vernon	Washington st.	Pearl st.	Public.	40	600	...

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.— *Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Mt. Vernon . . .	Pearl st. . . .	Perkins st. . . .	Public.	50	450	. . .
Mt. Vernon . . .	Perkins st. . . .	Broadway	Public.	40	600	. . .
Munroe	Walnut st. . . .	Easterly	Public.	40	375	. . .
Munroe	End of above . . .	Boston st. . . .	Private.	50	. . .	1,100
Murdock	Cedar st. . . .	Clyde st. . . .	Private.	30	. . .	900
Murray	Washington st.	Southerly	Private.	30	. . .	250
Museum	Beacon st. . . .	Cambridge line	Private.	40	. . .	170
Myrtle ct. . . .	Myrtle st. . . .	Easterly	Private.	10	. . .	100
Myrtle	Washington st.	Perkins st. . . .	Public.	40	1,400	. . .
Mystic ave. . . .	Charlestown line	Union st. . . .	Public.	60	350	. . .
Mystic ave. . . .	Union st. . . .	Medford line . . .	Public.	66	6,900	. . .
Mystic	Washington st.	Somerville ave.	Public.	40	360	. . .
Mystic	Benedict st. . . .	Mystic ave. . . .	Private.	40	. . .	330
Nashua	Richardson st.	B. & L. R. R. . .	Private.	35	. . .	640
Nevada ave. . . .	Village st. . . .	Hanson st. . . .	Private.	20	. . .	200
Newberne	Appleton st. . . .	Morrison st. . . .	Public.	40	200	. . .
Newbury	Holland st. . . .	Cambridge line	Public.	40	1,250	. . .
Newman pl. . . .	Cedar st. . . .	Southeasterly . . .	Private.	10+	. . .	100
Newton pl. . . .	Newton st. . . .	Easterly	Private.	about 10	. . .	100
Newton	Prospect	Webster ave. . . .	Public.	25	470	. . .
Newton	Webster ave. . . .	Concord ave. . . .	Public.	40+	650	. . .
Norfolk	Webster ave. . . .	Cambridge line	Public.	40	200	. . .
North	Broadway	Medford line . . .	Public.	40	2,550	. . .
North Union . . .	Mystic ave. . . .	Northeasterly . . .	Private.	30	. . .	600
Norton	Nashua st. . . .	Southeasterly . . .	Private.	20	. . .	200
Norwood ave. . . .	Broadway	Medford st. . . .	Public.	40	350	. . .
Oak	Prospect st. . . .	Angle	Public.	40	670	. . .
Oak	Angle	Cambridge line	Private.	30	. . .	530
Oak St. pl. . . .	Oak st. . . .	Northerly	Private.	4	. . .	85
Oakland ave. . . .	Marshall st. . . .	School st. . . .	Public.	40	440	. . .
Olive ave. . . .	Linden ave. . . .	Southeasterly . . .	Private.	25	. . .	155
Olive sq. . . .	Lake st. . . .	Southerly	Private.	about 15	. . .	100
Oliver	Franklin st. . . .	Cross st. . . .	Public.	40	1,050	. . .
Orchard	Cambridge line	Meacham st. . . .	Public.	40	1,625	. . .
Osgood	Granite st. . . .	East'ly & west'ly	Private.	40	. . .	450
Otis	Cross st. . . .	Wigglesworth st.	Public.	40	1,200	. . .
Oxford	School st. . . .	Central st. . . .	Private.	30+	. . .	1,330
Oxford	Beacon st. . . .	Cambridge line . .	Public.	50	100	. . .
Packard ave. . . .	Broadway	Medford line . . .	Private.	60	. . .	2,000
Palmer ave. . . .	Franklin st. . . .	Northwesterly . . .	Private.	20	. . .	200
Park ave. . . .	Elm st. . . .	Wallace st. . . .	Public.	40	450	. . .
Park pl. . . .	Laurel st. . . .	Easterly	Private.	30	. . .	220
Park pl. . . .	Park pl. . . .	Northeasterly . . .	Private.	20	. . .	150
Park	Somerville ave.	Beacon st. . . .	Public.	50	1,300	. . .
Parker pl. . . .	Porter st. . . .	Northwesterly . . .	Private.	20	. . .	150
Parker	Washington st.	Fremont ave. . . .	Private.	35	. . .	200
Partridge ave. . .	Vernon st. . . .	Broadway	Public.	40	1,457	. . .
Patten ct. . . .	Cutter st. . . .	Southeasterly . . .	Private.	8	. . .	100
Paulina	Broadway	Holland st. . . .	Private.	40	. . .	775
Pearl	Crescent st. . . .	Mt. Vernon st. . .	Public.	40	300	. . .
Pearl	Mt. Vernon st.	Franklin st. . . .	Public.	50	950	. . .
Pearl	Franklin st. . . .	Cross st. . . .	Public.	40	1,025	. . .
Pearl	Cross st. . . .	Medford st. . . .	Public.	50	2,475	. . .
Pearl St. pl. . . .	Pearl st. . . .	Northeasterly . . .	Private.	20	. . .	200
Pearl ter. . . .	Pearl st. . . .	Northerly	Private.	23	. . .	161
*Pearson ave. . . .	Morrison ave. . . .	Boston ave. . . .	Private.	45	. . .	1,300
Pearson road . . .	Broadway	Professors' row . .	Private.	40	. . .	1,654
Pembroke ct. . . .	Pembroke st. . . .	Southwesterly . . .	Private.	25	. . .	130
Pembroke	Central st. . . .	Sycamore st. . . .	Private.	40	. . .	440
Perkins pl. . . .	Perkins st. . . .	Northeasterly . . .	Private.	20	. . .	200
Perkins	Franklin st. . . .	Charlestown line .	Public.	40	1,350	. . .

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS. — *Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Peterson terrace	Porter	Northwesterly . .	Private.	13+	.. .	155
Pinckney pl. . .	Pinckney st. . .	Southeasterly . .	Private.	24	.. .	125
Pinckney	Washington st.	Perkins st. . . .	Public.	40	1,170	.. .
Pitman	Beech st.	Spring st.	Private.	30	.. .	380
Pitman	Spring st. . . .	Belmont st. . . .	Private.	26	.. .	390
Pleasant ave. .	Walnut st. . . .	Vinal ave.	Public.	40	470	.. .
Poplar ct. . . .	Poplar st.	Southeasterly . .	Private.	10	.. .	80
Poplar	Somerville ave.	Linwood st. . . .	Private.	30	.. .	350
Poplar	Linwood st. . .	Joy st.	Private.	35	.. .	300
Porter ave. . . .	Porter st.	Northwesterly . .	Private.	20	.. .	220
Porter pl.	Porter st.	Northwesterly . .	Private.	20	.. .	195
Porter	Elm st.	Mountain ave. . .	Public.	45	1,530	.. .
Porter	Mountain ave. .	Highland ave. . .	Public.	40	425	.. .
Prescott	Summer st. . . .	Highland ave. . .	Public.	50	1,050	.. .
Preston	School st.	Summer st.	Public.	40	800	.. .
Princeton	Alpine st.	Lowell st.	Public.	40	657	.. .
Princeton	Lowell st.	Centre st.	Private.	40	.. .	540
Professors' row .	Boston ave. . . .	College ave. . . .	Private.	50	.. .	460
Professors' row .	College ave. . . .	Curtis st.	Private.	40	.. .	1,900
Prospect	Washington st.	Cambridge line . .	Public.	50	2,050	.. .
Prospect Hill av.	Medford st. . . .	High st.	Public.	40	450	.. .
Prospect pl. . . .	Prospect st. . . .	E. Newton st. . .	Private.	20	.. .	130
Putnam	Summer st. . . .	Highland ave. . .	Public.	50	1,240	.. .
Quincy	Somerville ave.	Summer st.	Public.	40	700	.. .
Randolph pl. . .	Cross st.	Westerly	Private.	15	.. .	244
Raymond ave. . .	Curtis st.	North st.	Public.	40	1,345	.. .
Record's pl. . . .	Broadway	Southwesterly . .	Private.	10	.. .	110
Reed's ct.	Oliver st.	Southwesterly . .	Private.	20	.. .	105
Remick ct.	Cutter st.	Southeasterly . .	Private.	10	.. .	100
Richardson	Lowell st.	Lawrence st. . . .	Private.	35	.. .	480
Richardson ter. .	Richardson st.	Northeasterly . .	Private.	20	.. .	135
Richdale ave. . .	School st.	Sycamore st. . . .	Public.	40	875	.. .
Richmond hi'h'ds	Madison st. . . .	Southerly	Private.	30	.. .	150
Roberts	Lawrence st. . .	Northwesterly . .	Private.	20	.. .	170
Robinson	Central st.	Bartlett st.	Public.	40	582	.. .
Rogers ave. . . .	Morrison ave. . .	Broadway	Private.	45	.. .	1,700
Roseland	Beacon st.	Cambridge line . .	Public.	40	100	.. .
Rossmore	Somerville ave.	Washington st. . .	Public.	40	534	.. .
Royce pl.	Bonair st.	Northeasterly . .	Private	15+	.. .	175
Rush	Broadway	Flint st.	Public.	40	1,400	.. .
Russell road . . .	Broadway	North st.	Private.	40	.. .	1,193
Russell	Elm st.	Cambridge line . .	Public.	40	700	.. .
Sacramento . . .	Somerville ave.	Fitchburg R. R. .	Public.	40	80	.. .
Sacramento . . .	Fitchburg R. R.	Beacon st.	Public.	40	290	.. .
Sacramento . . .	Beacon st.	Cambridge line . .	Private.	40	.. .	156
Sanborn ave. . . .	Warren ave. . . .	Walnut st.	Public.	40	280	.. .
Sargent ave. . . .	Broadway	Walnut st.	Public.	40	1,082	.. .
Sartivell ave. . .	Cedar st.	Cherry st.	Private.	35	.. .	400
Sawyer ave. . . .	Packard ave. . . .	Curtis st.	Private.	40	.. .	690
School	Somerville ave.	Highland ave. . .	Public.	40	1,870	.. .
School	Highland ave.	Broadway	Public.	50	2,500	.. .
Sellon pl.	Marshall st. . . .	Northwesterly . .	Private.	12	.. .	120
Seven Pines ave.	Cameron ave. . .	Cambridge line . .	Private.	40	.. .	80
Sewall ct.	Sewall st.	Southwesterly . .	Private.	25	.. .	190
Sewall	Grant st.	Temple st.	Public.	40	615	.. .
Shawmut pl. . . .	Shawmut st. . . .	Alston st.	Private.	30	.. .	200
Shawmut	Washington st.	Cross st.	Public.	40	550	.. .
Shedd	Somerville ave.	Merriam ave. . . .	Private.	40	.. .	310
Sherman pl. . . .	Sargent ave. . . .	Marshall st. . . .	Private.	10	.. .	250
Sherman	Somerville ave.	Frost ave.	Private.	35	.. .	270
Sibley ct.	Cutter st.	Northwesterly . .	Private.	10	.. .	100

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS. — *Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Sibley pl. . . .	Cutter st. . . .	Northwesterly . .	Private.	10	. . .	100
Simpson ave. . .	Broadway . . .	Holland st. . . .	Private.	40	. . .	825
Skehan	Dane st. . . .	Durham st. . . .	Private.	30	. . .	720
Smith ave. . . .	Beacon st. . . .	Line st.	Private.	25+	. . .	200
Snow pl.	Belmont st. . . .	Easterly	Private.	30	. . .	75
Snow pl.	Snow pl.	N'th'y and s'th'y	Private.	20	. . .	222
Snow ter.	Jaques st. . . .	Southwesterly	Private.	16	. . .	120
Somerville ave.	E. Camb. line . .	Union sq.	Public.	75	4,300	. . .
Somerville ave.	Union sq.	N. Camb. line . .	Public.	70	6,800	. . .
South	Medford st. . . .	Westerly	Private.	30	. . .	940
*Southwick ave.	Morrison ave. . .	Boston ave. . . .	Private.	40	. . .	990
Spring ct. . . .	Somerville ave.	Westerly	Private.	20	. . .	200
Spring	Somerville ave.	Summer st.	Public.	40	1,200	. . .
Springfield . . .	Concord ave. . . .	Cambridge line . .	Public.	40	800	. . .
Spring Hill ter.	Highland ave. . .	Belmont st. . . .	Private.	20	. . .	670
Stanford ter. . .	Beacon st. . . .	Northeasterly . .	Private.	20	. . .	200
Stickney ave. . .	Marshall st. . . .	School st.	Public.	40	458	. . .
St. James ave. . .	Elm st.	Summer st.	Public.	40	488	. . .
Stone ave.	Union sq.	Columbus ave. . .	Public.	40	676	. . .
Stone pl.	Stone ave.	Southeasterly . .	Private.	30	. . .	145
Summer	Bow st.	Elm st.	Public.	45	7,700	. . .
Summit ave. . . .	Walnut st.	Vinal ave.	Public.	45	470	. . .
Summit	Elm st.	Billingham st. . .	Public.	40	262	. . .
Sumner	Lawrence st. . . .	Northwesterly . .	Private.	20	. . .	175
Sunnyside ave. . .	Walnut st.	Wigglesworth st.	Private.	35	. . .	250
Sycamore	Broadway	Medford st. . . .	Public.	45	1,250	. . .
Sycamore	Medford st. . . .	Richdale ave. . .	Private.	40	. . .	550
Sycamore	Richdale ave. . .	Highland ave. . .	Private.	33	. . .	800
Sydney	Wheatland st. . .	Temple st.	Private.	40	. . .	925
Talbot ave. . . .	Packard ave. . . .	College ave. . . .	Private.	50	. . .	1,409
Taunton	So. Wyatt st. . . .	Easterly to angle	Private.	30	. . .	170
Taunton	Angle	Marion st.	Private.	20	. . .	95
Taylor pl.	Somerville ave.	Southerly	Private.	15	. . .	200
Taylor	Mystic ave. . . .	Sydney st.	Private.	40	. . .	310
Temple	Broadway	Mystic avenue . .	Public.	66	1,540	. . .
Tenney ct.	Mystic ave. . . .	Northeasterly . .	Private.	30	. . .	400
Tennyson	Forster st.	Medford st. . . .	Public.	40	469	. . .
Tennyson	Medford st. . . .	Pembroke st. . . .	Private.	40	. . .	400
Thorndike	Holland st.	Kingston st. . . .	Private.	40	. . .	580
Thorpe pl.	Highland ave. . .	Southwesterly . .	Private.	30	. . .	450
Thurston	Broadway	Richdale ave. . .	Public.	40	1,660	. . .
Tower ct.	Tyler st.	Northeasterly . .	Private.	25	. . .	150
Tower	Crown st.	Highland ave. . .	Public.	40	559	. . .
Tremont pl. . . .	Tremont st.	Southeasterly . .	Private.	about 10	. . .	75
Tremont	Webster ave. . . .	Cambridge line . .	Public.	40	589	. . .
Trull	Vernon st.	Medford st. . . .	Public.	40	1,050	. . .
Trull lane	Highland ave. . .	Oxford st.	Private.	15	. . .	200
Tube Works ct.	Somerville ave.	Southwesterly . .	Private.	20	. . .	150
Tufts ave.	Talbot ave.	Professors' row . .	Private.	60	. . .	250
Tufts	Washington st. . .	Cross st.	Public.	40	940	. . .
Tyler	Vine st.	Dane st.	Public.	40	404	. . .
Unnamed st. . . .	Broadway	Russell road . . .	Private.	40	. . .	449
Unnamed st. . . .	Broadway	Russell road . . .	Private.	40	. . .	382
Unnamed st. . . .	Mystic ave.	Middlesex ave. . .	Private.	40	. . .	433
Unnamed st. . . .	Mystic ave.	Middlesex ave. . .	Private.	40	. . .	583
Unnamed st. . . .	Mystic ave.	Middlesex ave. . .	Private.	40	. . .	706
Union	Broadway	Mystic ave.	Public.	40	330	. . .
Union pl.	Linwood st.	Southwesterly . .	Private.	10	. . .	100
Veazie	Walnut st.	Bradley st.	Private.	40	. . .	650
Vernon	Central st.	Jenny Lind ave. . .	Public.	40	740	. . .
Vernon	Jenny Lind ave.	Lowell st.	Private.	30	. . .	600

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS. — *Continued.*

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Victoria . . .	Broadway . .	Cambridge line .	Private.	40	. . .	1,036
Villa ave. . .	Winslow ave. .	Arlington B. R.R.	Private.	35	. . .	200
Village . . .	Dane st. . .	Vine st. . .	Private.	25	. . .	370
Vinal ave. . .	Summer st. . .	Highland ave. .	Public.	45	1,400	. . .
Vinal . . .	Richardson st.	Northeasterly .	Private.	20	. . .	200
Vine ct. . .	Vine st. . .	Northwesterly .	Private.	25	. . .	140
Vine . . .	Somerville ave.	Hanson st. . .	Private.	40	. . .	780
Vine . . .	Hanson st. . .	Beacon st. . .	Private.	25	. . .	650
Virginia . . .	Aldrich st. . .	Jasper st. . .	Public.	40	405	. . .
Wade ct. . .	Cedar st. . .	Westerly . . .	Private.	20	. . .	180
Waldo . . .	Highland ave.	Hudson st. . .	Public.	40	. . .	287
Wallace . . .	Holland st. . .	Broadway . . .	Public.	40	1,350	. . .
Walnut . . .	Bow st. . .	Broadway . . .	Public.	40	3,830	. . .
Walter pl. . .	Walter st. . .	Southwesterly .	Private.	40	. . .	222
Walter . . .	Walnut st. . .	{ about 100 ft. N. } { of Bradley st. }	Public.	40	548	. . .
Ward . . .	Medford st. . .	Earl st. . .	Private.	30	. . .	610
Ware . . .	Curtis st. . .	Northwesterly .	Private.	40	. . .	700
Warren ave. .	Union sq. . .	Columbus ave. .	Public.	40	650	. . .
Warren . . .	Medford st. . .	Cambridge line .	Private.	30	. . .	100
Warwick ave. .	Warwick st. . .	Northeasterly .	Private.	15	. . .	150
Warwick . . .	Cedar st. . .	Warwick ave. .	Public.	40	655	. . .
Washington ave.	Washington st.	Northerly . . .	Private.	18	. . .	350
Washington . .	Charlest'n line	Franklin ave. .	Public.	75	1,060	. . .
Washington . .	Franklin ave. .	Fitchburg R. R.	Public.	60 to 100	3,870	. . .
Washington . .	Fitchburg R. R.	Cambridge line .	Public.	60	2,380	. . .
Water . . .	South st. . .	Northerly . . .	Private.	25	. . .	250
Waterhouse . .	Broadway . .	Cambridge line .	Private.	40	. . .	986
Watson st. . .	Broadway . .	Fairmount ave. .	Private.	40	. . .	236
Waverly . . .	Washington st.	Southerly . . .	Private.	35	. . .	200
Webster ave. .	Union sq. . .	Cambridge line .	Public.	49.5	1,950	. . .
Webster . . .	Franklin st. . .	Cross st. . .	Public.	40	1,000	. . .
Wellington ave.	Walnut st. . .	Montgomery ave.	Public.	40	215	. . .
Wellington ave.	M'tgomery ave.	Easterly . . .	Private.	40	. . .	85
Wesley pk. . .	Wesley sq. . .	Northeasterly .	Public.	40	405	. . .
Wesley . . .	Pearl st. . .	Northeast to angle	Private.	40	. . .	350
Wesley . . .	Angle . . .	Otis st. . .	Private.	30	. . .	165
West . . .	Broadway . .	Heath st. . .	Private.	30	. . .	250
West . . .	Hawthorne st.	Arlington B. R. R.	Private.	30	. . .	460
Westminster . .	Broadway . .	Electric ave. . .	Public.	40	376	. . .
Weston ave. . .	Clarendon ave.	Broadway . . .	Private.	40	. . .	525
Westwood road .	Central st. . .	Benton ave. . .	Public.	40	489	. . .
Wheatland . . .	Broadway . .	Jaques st. . .	Public.	40	495	. . .
Wheatland . . .	Jaques st. . .	Mystic ave. . .	Private.	40	. . .	855
Wheeler . . .	Pinckney st. .	Mt. Vernon st. .	Public.	40	269	. . .
Whipple . . .	Hawthorne st. .	Arlington B. R. R.	Private.	30	. . .	575
White . . .	Elm st. . .	Cambridge line .	Private.	20	. . .	300
White St. pl. .	White st. . .	Southeasterly .	Private.	20	. . .	200
Wigglesworth . .	Bonair st. . .	Pearl st. . .	Public.	40	740	. . .
William . . .	Chandler st. .	Elm st. . .	Public.	40	381	. . .
William . . .	Broadway . .	Medford line . .	Private.	50	. . .	45
Williams ct. . .	Porter st. . .	Northwesterly .	Private.	30	. . .	150
Willoughby . . .	Central st. . .	Sycamore st. . .	Private.	30	. . .	400
Willow ave. . .	Elm st. . .	Broadway . . .	Public.	50	3,440	. . .
Willow pl. . .	Cambridge line	South st. . .	Private.	25	. . .	150
* Willowdale . .	Willow ave. . .	Easterly . . .	Private.	40	. . .	550
Wilson ave. . .	Broadway . .	B. & L. R. R.	Private.	20	. . .	310
Wilton . . .	Lowell st. . .	Lawrence st. . .	Private.	35	. . .	470
Winchester . . .	Broadway . .	Medford line . .	Private.	40	. . .	65
Windom . . .	Elm st. . .	Summer st. . .	Public.	40	300	. . .
Windsor road . .	Gordonia road	Willow ave. . .	Private.	40	. . .	575
Winslow ave . .	Elm st. . .	Clifton st. . .	Public.	40	1,086	. . .
Winter . . .	Elm st. . .	Holland st. . .	Private.	30	. . .	430

* Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.— *Concluded.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Winter Hill cir.	Broadway . .	Northeasterly . .	Private.	25	. . .	177
Winthrop ave. . .	Broadway . .	Mystic ave. . . .	Public.	50	1,170	. . .
Woodbine	Centre st. . . .	Lowell st.	Private.	30	. . .	600
* Woods ave. . . .	North st.	Alewife Brook . .	Private.	40	. . .	1,350
Woodstock	Victoria st. . .	Alewife Brook . .	Private.	40	. . .	415
Wyatt ct.	South Wyatt st.	Westerly	Private.	13	. . .	200
Wyatt pl.	Wyatt st.	Westerly	Private.	10	. . .	70
Wyatt (South) . .	Concord ave. . .	Northerly	Private.	40	. . .	400
Wyatt (North) . .	Washington st.	Southerly	Private.	40	. . .	350
Yorktown	{ 100 ft. north of } { Malvern ave. }	Cambridge line . .	Private.	40	. . .	548

*Proposed.

UNNAMED STREETS.

Court	Craigie st. . . .	Westerly	Private.	25	. . .	126
Court	Craigie st. . . .	Westerly	Private.	25	. . .	126
Court	Craigie st. . . .	Westerly	Private.	25	. . .	126
Court	Broadway	Southwesterly . .	Private.	15	. . .	96
Court	Dane st.	Easterly	Private.	10	. . .	70
Court	Lowell st.	Westerly	Private.	25	. . .	101
Court	Lowell st.	Westerly	Private.	25	. . .	101
Court	Olive ave.	Porter st.	Private.	7.5	. . .	156
Court	Stone ave.	Northwesterly . .	Private.	20	. . .	113
Court	Albion st.	Northeasterly . .	Private.	10	. . .	100
Court	Columbia st. . . .	Northwesterly . .	Private.	10	. . .	117
Total . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	297,668	170,302

Public, 56.38 miles; private, 32.24 miles.

TABLE SHOWING OLD NAMES OF CERTAIN STREETS AS FORMERLY KNOWN.

PRESENT NAME OF STREET.	FORMER NAMES BY WHICH STREET HAS BEEN KNOWN.
Albion street . . .	Forest street. (Easterly end.)
Aldrich street . . .	Ruby street. Eglantine street.
Ash avenue . . .	Minnie avenue.
Ashland street . . .	Maple street.
Avon place . . .	Middle lane. Barberry lane. Cross lane.
Beacon place . . .	Taggard court.
Beacon street . . .	Road to West Cambridge. Middlesex turnpike. Hampshire street.
Beech street . . .	Oak street. (Somerville avenue end.)
Benedict avenue . . .	Lovell street.
Bigelow street . . .	High street.
Bond street . . .	Park street.
Bonner avenue . . .	Bonner place. Warren avenue.
Boston avenue (Cedar street to Broadway) . . .	Orange street.
Bow street . . .	Charlestown lane. Milk row road. Milk row.
Broadway . . .	Road to Menotomy. Menotomy road. Medford road. Road from Menotomy to Boston. Medford road over Winter Hill. Great road from Charlestown to Menotomy. Winter Hill road or street. West Cambridge road. Main street.
Calvin street . . .	Dimick street.
Cameron avenue . . .	Cameron street.

PRESENT NAME OF STREET.	FORMER NAMES BY WHICH STREET HAS BEEN KNOWN.
Cedar street . . .	Seventh rangeway. Rangeway to Medford.
Centre street . . .	Forest place.
Central street . . .	Fifth rangeway. Rand's lane. Tufts' rangeway.
Chauncey avenue . . .	Chauncey street.
Chester avenue . . .	Middle lane. Cross lane. Barberry lane.
Columbus avenue . . .	Highland street. Warren avenue. Probation path.
Cooney street . . .	Hanson lane.
Concord avenue (Beacon street to Concord square)	Brick Yard lane. (Newton street to Beacon street.) Lincoln street. (Beacon street easterly.) Garden street. (Beacon street easterly.)
Cottage avenue . . .	Cottage place.
Crescent street . . .	Mt. Vernon street.
Cross street . . .	Three Pole lane. Second rangeway. (Broadway to Medford street.) Runey's lane.
Crown street . . .	Rand street.
Curtis street . . .	Rangeway. (Second.)
Cutter avenue . . .	Russell street.
Dartmouth street . . .	Fruit street.
Dane street . . .	Union street.
Dickinson street . . .	John street.
Dimick street . . .	Rollins street. (Southeasterly end.)
Dover street . . .	Willow street.
Dow street . . .	Barnett street.
Elm place . . .	Elm street.

PRESENT NAME OF STREET.	FORMER NAMES BY WHICH STREET HAS BEEN KNOWN.
Elm street	Charlestown lane. Powder House road. Road from Medford to Cambridge. Road from Medford to Cambridge over Quarry Hill. Cambridge road. Milk lane. Milk row.
Elmwood street	Davis street.
Everett avenue	Everett street.
Evergreen square	Cutter square.
Fairlee street	Graham street.
Fanning avenue	Dexter street.
Flint street	Runey street. (Cross street to Aldrich street.)
Forster street	Linwood street. Federal street.
Franklin street	Second poleway. First rangeway.
Gilman street	Cross street place.
Glendale avenue. . . .	Holmes street.
Hammond street	Dickinson place. Benefit street.
Harding street	Rideout street.
Harvard place	Chestnut street. Chestnut court.
Hawkins street	Milton street.
Hawthorne street	Graves street.
Henry avenue	Ayer street.
Hillside Park	Marritt place.
Highland avenue	Middle lane. Cross lane. Barberry lane. Church street. (Medford street to Central street.)
Ivaloo street	Auburn court. Wood street.

PRESENT NAME OF STREET.	FORMER NAMES BY WHICH STREET HAS BEEN KNOWN.
Jaques street . . .	Bond street. (Temple street to Bond street.)
Kenwood street . . .	Jacob street.
Kingman court . . .	Kingman street. Warren street.
Kingston street . . .	Campbell park. (Angle to Cambridge line.)
Lake street . . .	Hawkins court.
Lesley avenue . . .	Alton street.
Lexington avenue . . .	Lexington street.
Lincoln avenue . . .	George street.
Linden avenue . . .	Brackett's row. Leland street.
London street . . .	Lowell street.
Lowell street . . .	Sixth rangeway. Charles Adams' rangeway. White street.
Main street . . .	Road from Medford to Boston.
Malvern avenue . . .	Hollis street.
Maple avenue . . .	Parterre square.
Medford street . . .	Road from Medford to Lechmere Point. Road from Canal bridge to Medford. New road from Medford to Cambridge bridge. Craigie's road to Medford. Road to Medford.
Merriam street . . .	Myrtle street.
Miller street . . .	Pierce's court.
Moreland street . . .	Brooks street. (Main street to Meacham street.)
Morrison avenue . . .	Morrison street.
Monmouth street . . .	York Terrace. (Easterly end.) Chestnut street. } Chestnut court. } (Westerly end.) Harvard place. }
Munroe street . . .	Prospect street. Mt. Pisgah avenue. High street.

PRESENT NAME OF STREET.	FORMER NAMES BY WHICH STREET HAS BEEN KNOWN.
Myrtle street . . .	Warren street.
Mystic avenue . . .	Medford turnpike, or road.
Newton street . . .	Way by Bullard's bridge. Road to Cambridgeport. Brick Yard lane.
North street . . .	Proprietor's way. Cook's lane. Rangeway. (Third.)
North Union street . . .	Canal street.
Norwood avenue . . .	Magoun street.
Oakland avenue . . .	Oakman avenue.
Oliver street . . .	Broom street.
Oxford street . . .	High street. (Westerly end.)
Park street . . .	Baldwin street. Snowhill street. Bond street.
Paulina street . . .	James street.
Perkins street . . .	Proprietor's way. (Part.)
Pitman street . . .	Walnut street.
Poplar street . . .	Walnut street. (Linwood street to Joy street.)
Prospect street . . .	Road from Cambridgeport to Charlestown. Pine street.
Prospect Hill avenue . . .	Cross street.
Richardson street . . .	Appleton street. (Lowell street, westerly.)
Sacramento street . . .	Union street.
Sargent avenue . . .	Mills street. (Walnut street to angle.)
Sartwell avenue . . .	Chestnut street. Maple street.
School street . . .	Fourth rangeway. Ireland's lane. (Somerville avenue, northerly.)
Seven Pines avenue . . .	Stiles street.
Shawmut street . . .	Three Pole lane. Second rangeway.

PRESENT NAME OF STREET.	FORMER NAMES BY WHICH STREET HAS BEEN KNOWN.
Somerville avenue . . .	Charlestown lane. (Union square, westerly.) Kent's street. (Union square, westerly.) Milk row road. (Union square, westerly.) Milk row. (Union square, westerly.) Road from West Cambridge to Charlestown. County road. Milk street. Bridge street.
Spring street . . .	Spring Hill street.
Spring court . . .	Spring Hill court.
Temple street . . .	Derby lane. Derby street.
Veazie street . . .	Hawes avenue.
Vernon street . . .	Taylor street. Euston street.
Virginia street . . .	Eglantine avenue.
Walnut street . . .	Third rangeway.
Washington street . . .	Highway to New Towne. Cambridge road. Road from Cambridge to Charlestown. Cambridge and Charlestown road. Charlestown road. Road from the Colleges to Charlestown. Road to Old Cambridge. Milk row. (Charlestown to Union square.) Kirkland street. (Union square to Cambridge.) Cambridge street. (Union square to Charlestown.)
Webster avenue . . .	Medford street.
Webster street . . .	Lime street. Sullivan place.
Wesley Park . . .	Hawkins park.
Wesley street . . .	Prince street.
Wheatland street . . .	New Walnut street.
White street . . .	Cottage street.
White street place . . .	Cottage court.
Willow avenue . . .	Eighth rangeway. Irving street.

PRESENT NAME OF STREET.	FORMER NAMES BY WHICH STREET HAS BEEN KNOWN.
Windsor road	Minot street. Willow Dale street.
Wyatt street (South) . . .	Wyatt's lane.
Yorktown street	Albro street.

SQUARES.

Central square	Prescott square.
Cutter square	Russell square.
Davis square	Clarendon square.
Magoun square	Pollard square.
Teele square	Russell square.

REPORT
OF THE
COMMITTEE ON HIGHWAYS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 26, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON HIGHWAYS, January 2, 1899.

TO THE CITY COUNCIL.

Gentlemen:—The Committee on Highways presents the following report for the year ending December 31, 1898:—

HIGHWAYS ACCOUNT.

CREDIT.

Appropriation	\$65,000.00		
Less transfer to Side-walks account	\$167.41		
Less transfer to Kent street subway	99.65		
	267.06		
		\$64,732.94	
Receipts and credits:—			
For labor and materials furnished prior to January 1, 1898, the bills for which remained uncollected that day	\$238.96		
Rent of dwelling at city farm	\$136.00		
Less repairs	11.80		
	124.20		
Rebate from city of Waltham, taxes paid on Waltham gravel land	237.91		
	\$601.07		
<i>Amounts carried forward</i>	\$601.07	\$64,732.94	

<i>Amounts brought forward</i>	\$601.07	\$64,732.94
From Metropolitan Water Board, on account of constructing Chauncey avenue	300.00	
	<hr/>	901.07
Value of tools and property on hand January 1, 1898		14,799.00
Value of materials on hand January 1, 1898		2,261.21
Net gain on tools, property and materials		2,746.50
		<hr/>
Total credit		\$85,440.72

DEBIT.

Expenditures : —

For advertising laying out Ashland, Kingston, Lowell, Oxford and Wesley streets, Charnwood road and Winslow avenue		\$88.50
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Construction of streets : —

Banks street, from Elm street to Summer street	\$278.00	
Chauncey avenue, from Mystic avenue to Broadway	761.05	
Cutter avenue, from Summer street to Highland avenue	326.90	
Jenny Lind avenue, from Broadway to Medford street	343.85	
Morton street, from Glen street to Knowlton street	430.15	
Robinson street, from Central street to Bartlett street	228.55	
Wigglesworth street, from Pearl street to Bonair street	479.05	
	<hr/>	2,847.55

<i>Amount carried forward</i>		\$2,936.05
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<i>Amount brought forward</i>		\$2,936.05
Subgrading streets :—		
Adrian street, from Marion street to Joseph street	\$ 97.50	
Cook street, from Marion street to South Wyatt street	22.50	
Electric avenue, from Curtis street to Packard avenue	119.60	
Grant street, from Broadway to Jaques street	42.90	
Ibbetson street, from Somerville avenue to Lowell street	27.05	
Joy street, from Washington street to Poplar street	318.60	
Marion street, from Concord avenue to Cook street	56.30	
Westminster street, from Broadway to Electric avenue	147.00	
	<hr/>	831.45
Paving of Gutters, in connection with setting of Edgestones :—		
In twenty-seven sections of gutter, as per table in City Engineer's report, entitled "Table showing Location and cost of Edgestones and Brick Sidewalks and Paved Gutters where Edgestones were set in 1898"	\$7,305.70	
Greenville street, both sides from Munroe street to Boston street	150.95	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$7,456.65	\$3,767.50

<i>Amounts brought forward</i> .	\$7,456.65	\$3,767.50
Medford street, in front of estate of J. H. Maguire, near Partridge avenue .	49.40	
Stickney avenue, northeast- erly side, from Marshall street to School street .	173.28	
Vernon street, in front of the estate of Amie Terrio	19.60	
	<hr/>	7,698.93
Ordinary repairs of Streets :—		
Broadway, from Magoun square to Arlington line .	\$1,670.95	
Broadway, from Boston line to Autumn street	3,171.47	
Boston avenue, from the Medford line to Alewife brook	523.05	
Bonner avenue, from Wash- ington street to Columbus avenue	96.40	
Cameron avenue, from Mead street to the Cambridge line	99.80	
Central street, from Railroad bridge to Albion street .	631.95	
Cedar street, from Highland avenue to Albion street .	46.10	
Cross street, from Broadway to Pearl street	1,076.17	
Curtis street, from Broad- way, northerly	118.20	
East Newton street, from Prospect street to Web- ster avenue	433.45	
Hancock street, from Sum- mer street to Elm street .	53.10	
	<hr/>	<hr/>
<i>Amounts carried forward</i> .	\$7,920.64	\$11,466.43

<i>Amounts brought forward</i>	\$7,920.64	\$11,466.43
Medford street, from School street to Gilman square	103.70	
Medford street, from Highland avenue to Railroad bridge	182.70	
Mystic avenue, from Winthrop avenue to Wheatland street	2,708.25	
Pearl street, from Walnut street to Cross street	117.10	
Somerville avenue, from Kent street to the North Cambridge line	2,301.95	
Springfield street, from Concord avenue to the Cambridge line	323.80	
Walnut street, from Highland avenue to Bow street	1,013.85	
Walnut street, from Broadway to Pearl street	404.90	
General repairs	10,502.82	
	<hr/>	25,579.71
Resetting edgestones		1,494.74
Culvert at College Hill		183.65
Removing snow and ice, and care of slippery sidewalks		6,239.60
Repairs of stone paving		985.88
Repairs of brick sidewalks		2,208.35
Cleaning streets		8,513.09
Repairs of gravel sidewalks		1,919.20
Trimming trees		471.65
Setting trees		220.85
Removing trees		347.70
Wakefield gravel land		17.46
Destruction of Brown-tail Moth		585.60
		<hr/>
<i>Amount carried forward</i>		\$60,233.91

<i>Amount brought forward</i>		€60,233.91
Repairs of drinking fountains and setting same		150.89
Care and lighting of Kent and Sacramento street subways		293.44
Rebuilding fence, Sherman court, on line of premises owned by the heirs of Cyrus H. Stone		60.00
Placing edgestones and circles on Somerville avenue, corner of Ibbetson street		15.77
Repairs of Boston Avenue bridge		25.91
Street crossings		1,865.46
Repairs of street crossings		969.93
Street signs erected		307.94
Superintendent's salary		1,600.00
Superintendent's team (board of)		265.91
Maintenance of Middlesex avenue bridge		701.17
Books, stationery and printing		75.30
Sundry small expenses		690.66
Value of materials on hand this day		1,286.77
Value of tools and personal property on hand this day:—		
Horses	\$3,125.00	
Carts and implements used with horses	2,968.30	
Harnesses and horse clothing	667.00	
Stable utensils and property	202.50	
Tools	1,211.30	
Hay and straw	134.00	
Grain and feed	61.00	
Stone crusher and fittings	2,072.50	
Steam road rollers	6,100.00	
		<hr/>
		16,541.60
		<hr/>
Total debit		\$85,084.66
		<hr/>
Balance unexpended		\$356.06
		<hr/> <hr/>

The Profit and Loss account on city teams, tools, property, and materials is as follows :—

CREDIT.	
Steam road rollers	\$2,800.00
City teams	2,883.42
	<hr/>
Total	\$5,683.42
DEBIT.	
Tools (depreciation)	\$ 270.13
Repairs of tools	64.02
Stone crusher and fittings	157.50
Repairs of steam road rollers	209.17
Holland street ledge	177.25
Edgestones and paving stock	28.26
Crushed stone (to which amount is charged repairs at crusher)	2,031.59
	<hr/>
Total	\$2,937.92
	<hr/>
Net excess of credits over charges	\$2,745.50
	<hr/> <hr/>

No charge has been made in the various streets where the steam road rollers have been used, except for the time of the engineers, which is at the rate of \$3.00 a day.

The charge for placing crushed stone on the streets has been the same as in years past, namely, seventy-five cents for each single horse load, which is in addition to the teaming.

Gravel and sand have been charged at fifty cents for each single load, exclusive of teaming.

The crusher has been in service 225 days during the past year.

Number of loads of stone crushed	15,818
Number of loads of stone sent to the crusher from Holland street ledge during the year	157

The charges to the City Teams account are as follows :—

Horses (depreciation)	\$ 685.00
Carts and implements used with horses (depreciation)	268.70
Repairs of carts and implements	1,034.35
Harnesses and horse clothing (depreciation)	55.50
Repairs of harnesses and horse clothing	170.89
Stable utensils and property (depreciation)	55.69
Stable expenses and repairs	2,828 80
Grain and feed	2,234.11
Hay and straw	2,628.13
Horseshoeing	694.90
Horse medicine and doctoring	143.01
	<hr/>
	\$10,799.08
	<hr/> <hr/>

The horses have been credited with each day's actual work, at the rate of \$1.40 per day for each horse.

The cost of board for the horse used by the superintendent of streets is not included in statement under City Teams account, but is stated separately in the list of expenditures from Highways account, at the beginning of this report.

There are at present thirty-eight horses in use in the department (including the one used by the superintendent of streets), which are valued at \$3,125.00.

Six horses have been purchased during the year, at a cost of \$710.00 ; three horses have been sold, and one has died.

An additional steam road roller has been purchased, under authority of an order dated June 22nd, of the Buffalo Pitts Company, for the sum of \$3,190.00.

SIDEWALKS ACCOUNT.

CREDIT.

Appropriation	\$15,000.00
Transfer from Highways account	167.41
	<hr/>
<i>Amount carried forward</i>	\$15,167.41

<i>Amount brought forward</i>	\$15,167.41
Receipts from Sundry Persons constructing private sidewalks	224.72
	<hr/>
Total credit	\$15,392.13

DEBIT.

Expenditures :—

For advertising sidewalk hearings (sidewalks not constructed) \$47.00

Abatements of sidewalk assessments on Crocker street (one estate) and Highland avenue (one estate) 79.03

Fifty-three sidewalks, as per table in the City Engineer's report, entitled, "Table Showing Location and Cost of Edgestones and Brick Sidewalks," etc. 29,696.12

Constructing sidewalks for private parties, as per table 418.12

\$30,240.27

Less assessments 14,848.14

Cost to city \$15,392.13

PAVING WEBSTER AVENUE.

(From the Cambridge Line to the Fitchburg Railroad.)

CREDIT.

Appropriation \$7,000.00

Amount carried forward \$7,000.00

<i>Amount brought forward</i>		\$7,000.00
Transfer from paving Somerville avenue	\$256.60	
Receipt, Highways account, set- ting edgestones	30.35	286.95
	<hr/>	<hr/>
Total credit		\$7,286.95

DEBIT.

Expenditures:—

Patrick McGovern, on account of contract	\$3,236.54	
Patrick McGovern, extras	109.76	
S. & R. J. Lombard, edge- stones, paving blocks and flagging	3,433.14	
W. A. Sanborn, bricks	62.57	
Thomas Casey, bricks	10.00	
George D. Goodrich, drain pipe	2.63	
David W. Lewis, cement	3.00	
Osgood & Hart, grate and trap Sewers, maintenance, use of team and driver	4.57	
Margaret A. Simpson, sand50	
Labor	161.41	
	<hr/>	

Total debit		\$7,033.70
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Balance unexpended		\$253.25
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PAVING OF SOMERVILLE AVENUE.

CREDIT.

Unexpended balance of 1897		\$466.28
Less transfer to paving Webster avenue account		256.60
		<hr/>
Total credit		\$209.68
		<hr/>
<i>Amount carried forward</i>		\$209.68

Amount brought forward \$209.68

DEBIT.

Expenditure :—

Soule, Dillingham & Co., final
payment on account of
paving Somerville avenue \$209.68

CONSTRUCTION OF SUBWAY AT KENT STREET.

(Under Fitchburg Railroad.)

CREDIT.

Balance of Appropriation, December 31, 1897	\$257.99	
Transfer from Subway, Sacra- mento street	49.16	
Transfer from Highways account	<u>99.65</u>	
Total credit		<u>\$406.80</u>

DEBIT.

Expenditure :—

Holbrook, Cabot & Daley,
second and final payment
on account of materials
and labor furnished as per
agreement October, 1897 \$406.80

CONSTRUCTION OF SUBWAY AT SACRAMENTO STREET.

(Under Fitchburg Railroad.)

CREDIT.

Balance of Appropriation, December 31, 1897	\$561.50	
Less transfer to Subway, Kent street	49.16	
Total credit		<u>\$512.34</u>
<i>Amount carried forward</i>		<u>\$512.34</u>

Amount brought forward \$512.34

DEBIT.

Expenditure :—

Holbrook, Cabot & Daley,
second and final payment
on account of materials
and labor furnished as per
agreement October, 1897 \$512.34

STEAM ROAD ROLLER.

CREDIT.

Appropriation \$3,500.00

DEBIT.

Expenditure :—

Buffalo Pitts Co.; steam road roller \$3,190.00

Balance unexpended \$310.00

PAVING OF SOMERVILLE AVENUE, FROM PARK STREET, WESTERLY.

The final payment due Messrs. Soule, Dillingham & Co., for the paving of Somerville avenue, from Park street westerly, amounting to \$209.68, has been paid during the year, this being the only bill on this job which remained unpaid January 1st, 1898. The entire cost of the paving was \$9,743.40.

PAVING OF WEBSTER AVENUE.

(From the Cambridge Line to the Fitchburg Railroad.)

By authority of an order dated July 13, Webster avenue has been paved from the Cambridge line to the Fitchburg Railroad. The paving blocks were furnished by S. and R. J. Lombard, at a cost of \$44.00 per thousand; 73,679 blocks were used, and 647 square feet of granite flagging laid. The contractor for the labor was Patrick McGovern, who was the lowest bidder. All bills are paid except the reserve, amounting to \$170.34, which will be due the contractor early the coming season.

CONSTRUCTION OF SUBWAYS AT KENT STREET AND SACRAMENTO STREET.

(Under the Fitchburg Railroad.)

The subways at Kent street and Sacramento street have been completed during the year. The balance, January 1st, to the credit of the Kent street subway, was \$257.99, to which were added transfers from the appropriation for the construction of the Sacramento street subway, amounting to \$49.16, and from Highways account amounting to \$99.65, making a total credit of \$406.80. This amount was expended on the final payment to Holbrook, Cabot & Daley, the contractors. The entire cost to the city for the construction of the subway was \$3,264.18.

The balance of the appropriation for the subway at Sacramento street, December 31st, 1897, was \$561.50. A transfer was made from this amount to the appropriation for the subway at Kent street of \$49.16, leaving a balance of \$512.34. This amount was the final payment due and which has been paid to Holbrook, Cabot & Daley, the contractors, for the construction of this subway. The entire cost to the city, for the construction of this subway, was \$2,950.84. The total cost of both subways, including the amount contributed by the Fitchburg Railroad (namely, \$5,500.00), was \$11,715.02. They have proved a great convenience to the people in the neighborhood, and are highly appreciated.

EDGESTONE AND PAVING STOCK.

The contract for the furnishing of edgestones and paving stock (exclusive of the paving of Webster avenue) was awarded to S. & R. J. Lombard, they being the lowest bidders. Linear feet of edgestones set (including 3,860 feet reset), 22,292.4; square yards of brick paving laid (including 2,394 yards relaid), 19,381.8; square yards of stone paving laid (including 2,148 yards relaid), 8,526.

WEST END STREET RAILWAY COMPANY, TRACK LOCATIONS, UNION SQUARE, BOW STREET, AND SUMMER STREET.

During the year the West End Street Railway Company has been granted new track locations in Union square, Bow

street, and Summer street, to near Central street. New sixty-foot girder rails have been laid by the company at an improved grade, the main track being in the middle of the street, and the turnouts longer and more conveniently located than formerly. The change is of advantage both to the company and its patrons. The tracks were relaid so late in the season that no work has since been done on the streets, but no doubt it will be taken up early in the spring and the streets put in thorough repair.

MISCELLANEOUS.

A stone drinking fountain has been set during the year on Broadway, near Winthrop avenue.

Field and ledge stone have been purchased at a cost of \$4,035.09; sand to the amount of \$840.90; and gravel to the amount of \$907.00.

Fifty-three sidewalks have been constructed at a cost of \$30,240.27, of which amount \$14,848.14 was assessed on abutting estates, leaving \$15,392.13 to be borne by the city. More money has been expended for sidewalks during the past year than in any previous year since 1874.

Marshall street, Cross street, Broadway, Sargent avenue, Bow street, Union square, and Somerville avenue, have been opened during the year for the construction of storm drains.

Beacon street has been opened its entire length, and Somerville avenue has been opened from the Fitchburg Railroad bridge to the North Cambridge line, by the Cambridge Gas Light Company, for the purpose of laying a sixteen-inch gas main.

Twenty-four streets have been opened by the Somerville Water Commissioners for the purpose of laying or relaying water pipes.

Mystic avenue has been filled to grade from Winthrop avenue to Wheatland street.

Forty-two street signs, six guide signs, and seven private-way signs, have been erected during the year.

Two hundred and seven shade trees have been planted, and 14 trees have been removed.

A stone culvert, with a concrete arch, has been constructed across College avenue, at the brook.

A twelve-ton steam road roller was purchased, under authority of an order dated June 22nd, from the Buffalo Pitts Company for the sum of \$3,190.00. The roller has been in service since the early part of the summer and has proved entirely satisfactory. The city has at the present time two road rollers in service.

During the year the city has expended \$585.60 in destroying the insect pest, known as the brown-tail moth.

Boston avenue bridge is in bad condition, and will have to be rebuilt, or a new one constructed, at an early day, as it now requires constant care.

WORKING EQUIPMENT OF THE DEPARTMENT.

The working equipment of the department is as follows:—
38 horses, 11 double and 12 single carts and harnesses, 3 light wagons, 2 express wagons, 2 buggies, 2 sleighs, 4 road machines, 3 sweeping machines, 1 sectional road machine, 2 steam road rollers, 12 snow plows, 1 stone crusher with engine and boiler, one 20-horse power hopper, broken stone elevator with screens, 1 steam drill and boiler, tools used in street work, 1 blacksmith's shop and 1 carpenter's shop, with tools.

TABLES.

The following are tables of streets constructed, streets improved, driveways constructed, and crossings laid. These are in addition to the two tables, in the City Engineer's report, of streets accepted, and locations with cost of edgestones and brick sidewalks, and paved gutters.

TABLE A.
STREETS CONSTRUCTED.

NAME OF STREET.	FROM	To	LENGTH IN FEET.
Banks street	Elm street	Summer street	639
Chauncey avenue	Mystic avenue	Broadway	1,320
Cutter avenue	Summer street	Highland avenue	430
Jenny Lind avenue	Broadway	Medford street	610
Morton street	Glen street	Knowlton street	285
Robinson street	Central street	Bartlett street	582
Wigglesworth street	Pearl street	Bonair street	740
Total length in feet . . . . .	. . . . .	. . . . .	4,606

TABLE B.
STREETS IMPROVED.

STREET.	FROM	To	IMPROVEMENT.	FEET.
Broadway	Magoun square	Arlington line	Macadamized Graveled and	8,900
Broadway	Boston line	Autumn street	Macadamized	2,800
Boston avenue	Medford line	Alewife brook	Macadamized	910
Bonner avenue	Washington street	Columbus avenue	Macadamized	450
Cameron avenue	Mead street	Cambridge line	Macadamized	600
Central street	Railroad Bridge	Albion street	Macadamized Graveled and	250
Cedar street	Highland avenue	Albion street	Macadamized	400
Cross street	Broadway	Pearl street	Macadamized	1,150
Curtis street	Broadway	Northerly	Macadamized	800
E. Newton street	Prospect street	Webster avenue	Macadamized	425
Hancock street	Summer street	Elm street	Macadamized	781
Medford street	School street	Gilman square	Macadamized	500
Medford street	Highland avenue	Railroad bridge	Macadamized	1,250
Mystic avenue	Winthrop avenue	Wheatland street	Macadamized	100
Pearl street	Walnut street	Cross street	Macadamized	1,600
Somerville avenue	Kent street	Cambridge line	Macadamized	2,600
Springfield street	Concord avenue	Cambridge line	Macadamized	800
Walnut street	Highland avenue	Bow street	Macadamized	1,600
Walnut street	Broadway	Pearl street	Macadamized	1,400
Total length in feet . . . . .	. . . . .	. . . . .	. . . . .	27,316

TABLE C.

DRIVEWAYS CONSTRUCTED AT EXPENSE OF ABUTTERS.

FOR	STREET.
Benjamin F. Freeman	Mount Vernon street.
Henry L. Graustein	98½ Prospect street.
Aaron H. Patten	Porter street.
Israel P. Rice	Linden avenue.
George D. Wildes	441-445 Somerville avenue.
Laurin A. Woodward	126 Central street.

TABLE D.

SIDEWALKS CONSTRUCTED WHERE THE EDGESTONES AND BRICKS WERE FURNISHED OR PAID FOR BY THE ABUTTERS.

FOR	STREET.	FEET OF EDGESTONES.	YARDS OF BRICKS.
John and Mathilda Beaudet	Cross st. and Chester ave.		44.6
Edward Colliton	Allen street	93.7	51.4
Charles H. Crane	37 Bradley street		27.6
City of Somerville (Public Property)	} Beech street, inside } } curbing Carr school }	89.5	. . . .
Charles A. Kenneson	268-270 Broadway		69.7
James H. Maguire	Medford street	102.4	105.
Augusta M. Stilphen	31 Lincoln ave		17.2
Henry A. Stevens	16 Brastow ave		31.2
Sarah L. Spear	22 Wigglesworth street		27.8
Amie Terrio	Vernon street	44.8	35.6
Total		330.4	438.9

TABLE E.

STREET CROSSINGS LAID.

- Aldrich street, across same, in line with the westerly side of Pearl street.
- Ames street, across same, in line with the westerly side of Miner street.
- Bartlett street, across same, in line with the westerly side of Medford street.
- Boston street, across same, in line with the westerly side of Greenville street.
- Broadway, across same, in line with the easterly side of Glen street.
- Broadway, across same, in line with the westerly side of Central street.
- Broadway, across same, in line with the westerly side of Cedar street.
- Broadway, across same, in line with the westerly side of North street.
- Bonair street, across same, in line with the easterly side of Dana street.
- Cross street, across the head of Alston street.
- Cross street, across same, in line with the easterly side of Fountain avenue.
- Elm street, across same, in line with the westerly side of White street.
- Elm street, across same, in line with the northerly side of Beech street.
- Franklin street, across same, in line with the easterly side of Webster street.
- Franklin street, across same, in line with the southerly side of Perkins street.
- Highland avenue, across same, in line with the westerly side of Hamlet street.
- Highland avenue, across same, in line with the westerly side of Prescott street.

- Highland avenue, across same, in line with the westerly side of Spring Hill terrace.
- Highland avenue, across same, in line with the westerly side of Porter street.
- Highland avenue, across same, in line with the westerly side of Crocker street.
- Highland avenue, across same, in line with the westerly side of Lowell street.
- Highland avenue, across same, in line with the westerly side of Tower street.
- Highland avenue, at Davis square.
- Hudson street, across same at angle.
- Holland street, across same, in line with the southerly side of Irving street.
- Medford street, across same, in line with the westerly side of Highland avenue.
- Medford street, across same, in line with the northerly side of Tennyson street.
- Medford street, across same, in line with the northerly side of Thurston street.
- Medford street, across same, in line with the northerly side of Sycamore street.
- Miner street, across same, in line with the easterly side of Highland avenue.
- Pearl street, across same, in line with the westerly side of Walnut street.
- School street, across same, in line with the southerly side of Medford street.
- School street, across same, in line with the northerly side of Richdale avenue.
- School street, in line with westerly side, at head of Avon street.
- Summer street, in line with the westerly side of Preston street.
- Summer street, across same, in line with the westerly side of Laurel street.
- Summer street, in line with southwesterly side, at head of Ashland street.

Temple street, across same, in line with the westerly side of Heath street.

Walnut street, across same, in line with the southwesterly side of Summit avenue.

Washington street, crossing head of Kingman court.

F. DEWITT LAPHAM, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
COMMITTEE ON SEWERS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 8, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 9, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON SEWERS, January 2, 1899.

TO THE BOARD OF ALDERMEN OF SOMERVILLE:—

The Committee on Sewers presents the following report for the year ending December 31, 1898:—

MAINTENANCE ACCOUNT.

CREDIT.

Appropriation		\$7,000.00
Transfer from Interest account		300.00
Receipts and credits:—		
Sale of old iron	\$ 1.25	
Sale of lumber	69.89	
Dividend on private sewer built for Timothy Tufts in 1888	6.25	
City of Cambridge, repairs of sewers	63.22	
Schoolhouse, Spring Hill dis- trict, drain work in cellar	144.43	
Water maintenance, repairs Washington street sewer	56.10	
Highways, paving Webster avenue, changing line and grade of manholes	4.57	
	<hr style="width: 100%;"/>	345.71
Value of tools and property on hand January 1, 1898		826.30
Value of materials on hand January 1, 1898		113.32
Bills receivable December 31, 1898		20.92
		<hr style="width: 100%;"/>
Total credit		\$8,606.25
		<hr style="width: 100%;"/>
<i>Amount carried forward</i>		\$8,606.25

Amount brought forward \$8,606.25

DEBIT.

Expenditures : —

For maintenance of sewers, including repairing and cleaning sewers and manholes	\$2,383.45	
Maintenance of catch-basins	3,582.05	
Inspection of house drains	368.02	
Franklin O. Reed, rent of water course across marsh to Mystic River	300.00	
Changing line and grade of catch-basins	116.41	
Changing line and grade and repairing manholes	247.40	
Cleaning cellars flooded by overcharged sewers	106.32	
Laying drain at Martin W. Carr schoolhouse	144.43	
Books, stationery and printing	54.50	
Repairs of tools and property	87.82	
Sundry expenses	22.14	
Bills receivable January 1, 1898	91.92	
Depreciation in value of tools, property and materials	291.00	
Value of materials on hand December 31, 1898	26.32	
Value of tools and property on hand December 31, 1898 (including purchases during the year, \$302.10)	842.75	
	<hr/>	
Total debit		\$8,664.53
		<hr/>
Amount overdrawn		\$58.28
		<hr/> <hr/>

CONSTRUCTION ACCOUNT.

CREDIT.

Unexpended balance of 1897		\$19,274.35
Appropriated in 1898		25,000.00
Appropriated from Water Works Income		67,280.96
Receipts and credits :—		
For catch-basin curbs in side-		
walks, received credit		
from Sidewalks account	\$13.39	
D. W. Crocker, payment on		
account of cost of con-		
struction of Day street		
storm drain	50.00	
Fee for draining estate in		
Cambridge into Line		
street sewer	33.54	
Manhole cover	6.33	
	<hr/>	103.26
Common sewer assessments		11,107.04
Value of materials on hand		
January 1, 1898		191.41
Unpaid bills of 1898		916.45
		<hr/>
Total credit		\$123,873.47

DEBIT.

Expenditures :—

For the construction of sundry
sewers, as follows :—

Moreland street	\$ 966.28
Lincoln parkway	463.53
Broadway	4,051.92
Windsor road	384.38
Liberty avenue	1,340.59
Waterhouse street	603.83
Garrison avenue	680.20
Farragut avenue	749.56

<i>Amounts carried forward</i>	<hr/>	<hr/>
	\$9,240.29	\$123,873.47

<i>Amounts brought forward</i>	\$9,240.29	\$123,873.47
Endicott avenue	850.02	
Victoria street	644.82	
Woodstock street	1,306.93	
Curtis street (final payment reserved)	988.16	
Somerville avenue, Section One (uncompleted)	4,091.20	
Somerville avenue, Section Two (uncompleted)	9,193.95	
Raymond avenue (uncompleted)	153.06	
North street and Raymond avenue (uncompleted)	1,572.22	
Jenny Lind avenue	1,052.85	
Tennyson street	142.58	
Private Lands, between North street and Alewife Brook (uncompleted)	83.80	
Packard avenue and Private Lands (uncompleted)	51.90	
	<hr/>	
	\$29,371.78	
Abatement of sewer assessment	124.89	
City of Cambridge, on account Tannery Brook sewer	754.77	
Land damages on account Tannery Brook sewer	450.00	
Balance on account of Winthrop avenue, storm-water drain and sewer	5,415.17	
Broadway and Cross street, storm-water drain	14,933.53	
Broadway and Sargent avenue, storm-water drain	13,884.32	
	<hr/>	
<i>Amounts carried forward</i>	\$64,934.46	\$123,873.47

<i>Amounts brought forward</i>	\$64,934.46	\$123,873.47
Sherman court, Marshall street and Gilman square, storm-water drain	19,973.88	
Union square, Bow and Summer streets, storm-water drain	17,281.98	
Day street, storm-water drain	360.90	
Somerville avenue district, storm-water drain, engineering	76.00	
Bell-mouth, Winthrop avenue at Broadway	755.67	
Tide-gate outlet, Winthrop avenue	296.65	
Eastern district, storm drain outlet	94.00	
Tannery Brook, storm drain, temporary outlet	455.24	
Constructing manholes, East Somerville district, east of Cross street	272.33	
Constructing manholes at sundry sewers	14.65	
Building forty-two catch-basins	1,715.22	
Books, stationery and printing	17.75	
Sundry expenses	73.40	
Unpaid bills of 1897	596.21	
Depreciation in value of materials	4.00	
Value of materials on hand December 31, 1898	119.97	
Total debit		<u>\$107,042.31</u>
Balance unexpended		<u><u>\$16,831.16</u></u>

A detailed statement of the work of this department during the year will be found in the report of the City Engineer.

For the Committee on Sewers,

ANDREW A. LAMONT, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
COMMITTEE ON FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FIRE DEPARTMENT,
December 31, 1898.

TO THE CITY COUNCIL OF SOMERVILLE:—

The Committee on Fire Department presents the following report for the year ending December 31, 1898:—

FIRE DEPARTMENT ACCOUNT.

CREDIT.		
Appropriation		\$56,000.00
Credits:—		
Sale of horses	\$128.40	
Sale of old wheels	20.00	
Sale of manure	28.00	
	176.40	
Total credit		\$56,176.40
DEBIT.		
Expenditures:—		
For salaries of permanent men and substitute drivers	\$29,996.70	
Salaries of call men	11,064.25	
Improvements and repairs of apparatus and vehicles	977.10	
Improvements and repairs of buildings and furniture and new furniture	1,203.56	
New horses	625.20	
Grain and feed	1,139.17	
Hay and straw	1,636.31	
Horseshoeing	864.02	
<i>Amounts carried forward</i>	\$47,506.31	\$56,176.40

<i>Amounts brought forward</i>	\$47,506.31	\$56,176.40
Horse medicine and doctoring	138.43	
Harnesses and repairing same	366.36	
Fuel	1,322.07	
Gas	312.39	
Electric lighting	529.78	
Washing and ironing	346.16	
Water for hydrants and buildings	4,425.68	
Ice	67.92	
Insurance	5.00	
Fire extinguishers	22.00	
Telephones, rentals and tolls	159.91	
Supplies	422.62	
Incidentals	427.49	
Hose, and repairing same	1,180.53	
	<hr/>	
Total debit		\$57,232.65
		<hr/>
Amount overdrawn		\$1,056.25
		<hr/> <hr/>

FIRE DEPARTMENT. — FIRE STATION, CLARENDON HILL.

CREDIT.

Appropriation	\$15,000.00
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DEBIT.

Expenditures : —

Loring & Phipps, on account of architect's services	\$ 350.00
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Ezra T. Merrill, on account of contract	7,000.00
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Total debit	\$7,350.00
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Balance unexpended	\$7,650.00
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Five new horses have been purchased during the year at a cost of \$672.20, and five have been sold for the sum of \$175.40.

By authority of an order dated February 9, a set of roller-bearing wheels and axles was purchased of the Archibald Wheel Co. at a cost of \$185.00, and placed on Chemical A wagon.

By authority of an order dated September 6, a contract was made with Mr. Ezra T. Merrill for the construction of a two-door fire station, to be located on the city's land on Holland street, corner of Newbury street, for the sum of \$13,957.00. The building is well under construction, and when finished will be one of the finest in the department. It will be completed and ready for occupancy in the coming spring. The architects were Messrs. Loring & Phipps.

The committee recommends that a bell and striker be placed in the tower of this building, as it would not only add greatly to the efficiency of the service, but would also be a great convenience to people residing in the neighborhood in obtaining the notice of no-school sessions in stormy weather.

The buildings are all in good condition, they having received the usual attention by the Committee during the year.

For details relating to the manual force and workings of the department, we refer to the report of the Chief Engineer.

For the Committee,

L. HERBERT HUNTLEY, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
CHIEF ENGINEER OF THE FIRE
DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 8, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 9, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF CHIEF OF FIRE DEPARTMENT,
SOMERVILLE, MASS., December 31, 1898.

TO THE COMMITTEE ON FIRE DEPARTMENT.

Gentlemen:—The following information concerns the operations of the Fire Department for the year ending December 31, 1898.

Number of bell alarms	140
Number of still alarms	55
Total alarms	<u>195</u>
Total loss	\$ 37,307.16
Value of property at risk	222,880.00
Insurance on property	181,250.00

The manual force of the department consists of 105 men, as follows:—

Chief of department	1
Assistant chief	1
Three steam fire engine companies of 14 men each	42
Two hook and ladder companies of 13 men each	26
Three hose companies of 10 men each	30
One chemical company of 3 men	3
Total	<u>103</u>

The buildings of the department are generally in good repair. A new fire station is in process of erection on Clarendon Hill, which will be completed early in the spring.

<i>Number brought forward</i>	10 horses.
Engine 4	3 horses
Combination chemical and hose	3 horses
Ladder 1	3 horses
Ladder 2	3 horses
Hose 2	2 horses
Hose 3	2 horses
Hose 5	2 horses
Chemical A	2 horses
Chief of Department	1 horse
Spare	1 horse
	—
Total	32 horses

In addition there are three horses maintained but not owned by the department,—one of the assistant chief, and two of the wire department.

UNDERGROUND WIRES.

I renew my recommendation of last year, that all wires, except the trolley wires, be placed underground. In placing ladders to reach the upper stories of buildings, they are an obstacle that prevents quick work by the firemen. Another very important reason for placing wires underground was demonstrated during the year 1898. By reason of the great snow storm of February 1, the whole of the fire-alarm system was inoperative for several hours, and some of the circuits were unserviceable for several days, and the city in a perilous condition. When there is a great storm and the wind blows a gale, all the appliances for public safety, especially such as the fire-alarm telegraph and telephone systems, should be in perfect working condition to give the signal of danger, but at such times some portions of it are usually inoperative by reason of the situation of the wires on poles. If the wires of the fire-alarm and telephone systems were placed underground, where they would not be disturbed by the elements of wind and storm, their working would be perfect, and public safety assured, so far as these agencies are dependent upon to give correct information of trouble.

BUILDING RESTRICTIONS.

I renew my recommendation of last year in regard to the placing of reasonable restrictions upon some buildings, such as stables and those covering an area of over 4,000 square feet of single floor space, and more than one story high. Such buildings should be required to be built of brick, stone, or iron, and the roof covered with some non-inflammable material. If shingled roofs could be prohibited, it would conduce towards keeping a fire near to the building in which it originated, and thereby assist in preventing a conflagration. Shingled roofs are a menace to the public safety; they should be prohibited. When they are dry, they quickly ignite from a spark that drops upon them, and readily kindle into a flame. The more numerous the shingled roofs, the greater the liability to roof fires.

IMPORTANCE OF A GREATER WATER PRESSURE.

On the first day of February, there came a heavy snow storm. The three engines of the department could not be drawn any distance from their stations, and the horses provided for them were attached to the hose wagons, thus doubling the horse-power to draw these pieces of equipment to fires. We were to attach the hose to hydrants and get what water we could from them, and were therefore entirely dependent on the *hydrant pressure*. The superintendent of the water department employed extra men, and kept the standpipe full constantly for several days and nights, until the streets were in a condition to move the engines. Again, on November 27, and for several days thereafter, we were in a similar condition, — entirely dependent upon the water pressure in the hydrants. We were fortunate in not having any fires, except in low buildings. If there had been a fire in the upper story in any of our high buildings, it is doubtful if it could have been extinguished, as the water pressure was not sufficient to throw effective streams to that height. This shows the importance of having a sufficient water pressure at the hydrants when, for any reason, the steam fire engines are not available. When the Metropolitan Water Commissioners furnish us with water from the high-service reservoir, on the hills of Middlesex Fells, we shall learn just

what can be accomplished with the expected increased water pressure.

FIRE-ALARM TELEGRAPH.

The fire-alarm telegraph signal boxes have each been supplied with a key in the lock, covered with thin glass; by breaking the glass the key is readily accessible, and a quick alarm can be given. Many false alarms have been given by mischievous boys. This annoyance could be prevented to a large extent by using what is known as the Tooker keyless door, which causes a bell to ring when the door is opened and before the alarm is given. The ringing can be heard quite a distance, and will attract attention to the signal box. A person whose intention is to use it for the purpose of giving a false alarm is liable to be detected. I would recommend that a few of these doors be applied each year until all the boxes are equipped with them.

AID TO INJURED.

H. William Hutchins, driver of Engine No. 1, who has charge of this branch of the service, makes the following annual report. His services merit commendation. Arthur M. Gilman, of Engine Co. No. 4, has also rendered good service in this work.

SOMERVILLE, January 1, 1899.

TO THE CHIEF OF FIRE DEPARTMENT:—

In compliance with your request, I respectfully submit the following report of accident cases treated during the year 1898:—

Whole number of cases	35
Accidents occurring at fires	21
Members of the department	21
Not members of department	12
Horses	2
Wounds treated more than once	9

The more severely injured were Capt. B. H. Pond and Lieut. F. L. Draper of Hose No. 3, Assistant Engineman Walter H. Young of Engine 2, and Ladderman P. J. Fallon of Truck No. 1.

Respectfully,

H. W. HUTCHINS.

CAUSE OF FIRES AND ALARMS.

Accident	1
Ashes	1
Awning	2
Bed	4
Bonfire	1
Breaking of lamp	10
Breaking of lantern	1
Chimney	7
Chimney, falling off	1
Children playing with matches	4
Children left candle burning	1
Children set fire to quilt	1
Cleaning furniture with naphtha	1
Curtain in contact with gaslight	2
Cigar	2
Closet fire	1
Defective flue	1
Dump	1
Dropping of lighted matches	7
Drying plaster	1
Electric wires	3
Electric car	1
Explosion of lamps	4
Explosion, materials unknown	1
False alarms	17
Falling stove pipe	1
Fence	1
Firecrackers	3
Fire under boiler	1
Furnace	4
Grass	3
Greasy rags	1
Incendiary	15
Ignited from lamp	1
Kerosene oil can on stove	1
Lightning	2
Matches and rats	1

Naphtha lamp	1
Oil stoves	8
Oil ignited from lighted matches	1
Overheated stove	1
Overheated dryhouse	1
Rubbish	6
Smoke mistaken for fire	1
Smoking in bed	1
Spontaneous combustion	2
Sparks from pipe	1
Sparks from forge	1
Sparks from hoisting engine	1
Sparks from bonfire	1
Sparks in wood box	2
Sparks on roof	3
Sparks from locomotive	14
Thawing out water pipes	3
Thawing out gutters	1
Tinsmith's furnace	1
Unknown	8

ROSTER.

James R. Hopkins	<i>Chief Engineer</i>	27 Summit ave.
Nathaniel C. Barker	<i>Assistant Engineer</i>	12 Ellsworth st.

ENGINE CO. 1.

Name.	Born.	Rank.	Occupation.	Residence.
Edward W. Ring,	May 6, 1847,	Captain,	Fireman,	Medford st.
Frank Langer,	July 4, 1854,	Lieutenant,	Fireman,	Trull lane.
John W. Bartlett,	Feb. 22, 1862,	Engineman,	Fireman,	Otis st.
Win. A. Burbank,	March 6, 1842,	Ass't Engineman,	Fireman,	Gilman st.
Horace W. Hutchins,	Aug. 26, 1866,	Driver,	Fireman,	Medford st.
Henry J. Turner,	Feb. 24, 1864,	Driver,	Fireman,	Somerville ave.
Fred S. Young,	Feb. 1, 1867,	Hoseman,	Inspector,	Oxford st.
Oscar J. Lingley,	April 5, 1860,	Hoseman,	Milkman,	Avon st.
Benj. F. Johnson,	Nov. 20, 1864,	Hoseman,	Inspector,	Medford st.
Sewall M. Rich,	Nov. 6, 1866,	Hoseman,	Merchant,	Medford st.
Joseph W. Mess,	Sept. 25, 1863,	Hoseman,	Peddler,	Chestnut ave.
Harry J. Locke,	April 25, 1871,	Hoseman,	Undertaker,	Gilman st.

Feet of hose laid	13,700
Miles run	318
Feet of ladders used	140
Extinguishers used	9
Bell alarms	124
Still alarms	12

ENGINE CO. 2.

Name.	Born.	Rank.	Occupation.	Residence.
Thomas H. Daly,	April 3, 1845,	Captain,	Fireman,	Cross st.
John Frizzell,	Oct. 14, 1856,	Lieutenant,	Fireman,	Everett ave.
Clarence W. Cook,	Oct. 1, 1858,	Engineman,	Fireman,	Arthur st.
Walter H. Young,	Dec. 25, 1869,	Ass't Engineman,	Fireman,	Oxford st.
Louis E. Seymour,	March 25, 1873,	Driver,	Fireman,	Brook st.
Arthur C. Sellon,	July 15, 1863,	Driver,	Fireman,	Glen st.
William J. Logan,	July 4, 1842,	Hoseman,	Painter,	Cross st.
Robert Geaton,	Feb. 22, 1861,	Hoseman,	Painter,	Ellsworth st.
Chas. F. Garland,	Nov. 15, 1871,	Hoseman,	Coal Dealer,	Ellsworth st.
Edward W. Burgess,	Aug. 3, 1859,	Hoseman,	Peddler,	Otis st.
Cornelius A. Doherty,	April 30, 1873,	Hoseman,	Milkman,	Glen st.
Caleb W. Kimball,	July 16, 1874,	Hoseman,	Paperhanger,	Brook st.
Fred W. Kimball,	Aug. 11, 1866,	Hoseman,	Wood-worker,	Brook st.

Feet of hose laid	10,550
Miles run	122
Feet of ladders used	367
Extinguishers used	4
Bell alarms	76
Still alarms	6

ENGINE CO. 4.

Name.	Born.	Rank.	Occupation.	Residence.
Samuel H. Stevens,	May 18, 1842,	Captain,	Fireman,	Highland ave.
Danforth S. Steele,	Sept. 9, 1850,	Lieutenant,	Fireman,	Leslie pl.
Lindorf D. Bixby,	Jan. 31, 1841,	Engineman,	Fireman,	Highland ave.
John Gillooly,	June 9, 1856,	Ass't Engineman,	Fireman,	Winslow ave.
Charles H. Stearns,	Dec. 7, 1854,	Driver,	Fireman,	Highland ave.
Arthur M. Gilman,	Aug. 19, 1866,	Driver,	Fireman,	Holland st.
Eugene H. Jones,	June 17, 1864,	Hoseman,	Lineman,	Chandler st.
John F. Burton,	Feb. 14, 1857,	Hoseman,	Painter,	Highland ave.
James I. King,	March 30, 1865,	Hoseman,	Painter,	Elm court.
Joseph A. Sander,	April 28, 1868,	Hoseman,	Teamster,	Holland st.
George C. Creighton,	Sept. 18, 1865,	Hoseman,	Type founder,	Cutter ave.
John B. Rufer,	March 16, 1869,	Hoseman,	Blacksmith,	Holland st.
Geo. F. Bixby,	March 27, 1869,	Hoseman,	Salesman,	Highland ave.

Still alarms	11
Miles run	132
Feet of hose laid	14,900
Chemical hose laid	6,000
Feet of ladders used	400

HOOK AND LADDER CO. 1.

Name.	Born.	Rank.	Occupation.	Residence.
Melvin B. Ricker,	Aug. 30, 1841,	Captain,	Fireman,	Washington st.
Horace P. Ewell,	Feb. 27, 1857,	Lieutenant,	Fireman,	Bow street pl.
Richard F. Clarkson,	May 18, 1859,	Driver,	Fireman,	Rossmore st.
Wm. A. McLane,	Jan. 7, 1859,	Ladderman,	Engineer,	Clark st.
Patrick J. Fallon,	March 3, 1859,	Ladderman,	Upholsterer,	Somerville ave.
James M. Gould,	Dec. 10, 1845,	Ladderman,	Printer,	Rush st.
James D. Perkins, Jr.,	Nov. 5, 1858,	Ladderman,	Paperhanger,	Lake st.
Martin S. Lacy,	Oct. 18, 1862,	Ladderman,	Painter,	Washington st.
George A. Page,	Aug. 15, 1855,	Ladderman,	Laborer,	Webster ave.
James E. Thompson,	Sept. 1, 1869,	Ladderman,	Laborer,	Webster st.
John H. Ford,	July 16, 1859,	Ladderman,	Painter,	Oak st.
George R. Dale,	June 22, 1871.	Absent on lease in U. S. army.		

Ladders raised	2,110 feet.
Miles run	114

REPORT OF THE CHIEF ENGINEER OF FIRE DEPARTMENT. 723

HOOK AND LADDER CO. 2.

Name.	Born.	Rank.	Occupation.	Residence.
Irving C. Jackson,	Sept. 10, 1847,	Captain,	Fireman,	Highland ave.
Charles E. Shaw,	Oct. 13, 1854,	Lieutenant,	Fireman,	Highland ave.
Harry F. Bucknam,	Sept. 21, 1872,	Driver,	Fireman,	Highland ave.
John E. Hill,	Dec. 25, 1845,	Ladderman,	Salesman,	Cherry st.
Clarence H. Alley,	March 16, 1869,	Ladderman,	Carpenter,	Highland ave.
Harry H. Whicher,	May 23, 1864,	Ladderman,	R. R. Agent,	Holland st.
Thomas McNee,	Nov. 14, 1857,	Ladderman,	Roofer,	Hersey st.
Clarence T. Conant,	Dec., 1866,	Ladderman,	Milkman,	Hudson st.
Wm. J. Kennedy,	March, 1864,	Ladderman,	Plumber,	Alpine st.
LeBaron Emery,	May 11, 1860,	Ladderman,	Painter,	Alpine st.

Feet of ladders used 1,472
 Miles run 151

HOSE CO. 2.

Name.	Born.	Rank.	Occupation.	Residence.
Francis W. Ring,	Aug. 7, 1859,	Captain,	Fireman,	Wheatland st.
Daniel R. Spike,	March 22, 1844,	Lieutenant,	Fireman,	Broadway.
Henry A. Angier,	April 30, 1838,	Driver,	Fireman,	Jaques st.
Charles H. Timson,	May 27, 1861,	Hoseman,	Teamster,	Marshall st.
Wm. F. Marble,	June 22, 1852,	Hoseman,	Fish Dealer,	Derby st.
Melville G. Webber,	July 10, 1871,	Hoseman,	Teamster,	Jaques st.
Almon M. Irish,	April 2, 1867,	Hoseman,	Clerk,	Sargent ave.
Chas. A. Woodbury,	Jan. 31, 1851,	Hoseman,	Foreman,	Sargent ave.
Harry V. Spike,	Sept. 30, 1873,	Hoseman,	Teamster,	Broadway.
Frederic E. Cushing,	Dec. 20, 1845,	Hoseman,	Painter,	Walnut st.

Feet of hose laid 10,200
 Miles run 242½
 Feet of ladders used 185
 Extinguishers used none

HOSE CO. 3.

Name.	Born.	Rank.	Occupation.	Residence.
Benj. H. Pond,	Oct. 25, 1867,	Captain,	Fireman,	Bonner ave.
Frank L. Draper,	July 31, 1852,	Lieutenant,	Fireman,	Chester ave.
Charles H. Bridges,	Nov. 29, 1848,	Hoseman,	Machinist,	Medford st.
Francis S. Brown,	Feb. 4, 1845,	Hoseman,	Watchman,	Columbus ave.
Thomas W. Joy,	Feb. 22, 1856,	Hoseman,	Cooper,	Bow Street pl.
John H. Cuddy,	July 5, 1852,	Hoseman,	Clerk,	Bow Street pl.
Alfred R. Higgins,	Feb. 25, 1849,	Hoseman,	Cooper,	Prospect st.
Edward A. Parker,	Oct. 29, 1851,	Hoseman,	Piano maker,	Oxford st.
George W. Bridges,	March 22, 1876,	Hoseman,	Confectioner,	Medford st.

Feet of hose laid 10,800
 Miles run 111
 Chemical extinguishers used 19
 Feet of ladders used 100
 Still alarm 2

HOSE CO. 5.

Name.	Born.	Rank.	Occupation.	Residence.
Edwin F. Trefren.	March 28, 1858,	Captain,	Fireman,	Somerville ave.
Wm. J. Blaisdell,	May 16, 1846,	Lieutenant,	Fireman,	Quincy st.
Martin E. Driscoll,	Dec. 21, 1872,	Hoseman,	Painter,	Somerville ave.
Horace L. Dunklee,	Dec. 12, 1854,	Hoseman,	Fireman,	Somerville ave.
George R. Green,	Feb. 27, 1866,	Hoseman,	Florist,	Belmont st.
Michael H. Kennedy,	July 14, 1873,	Hoseman,	Laborer,	Somerville ave.
Otto T. Teakles,	March 22, 1871,	Hoseman,	Plasterer,	Belmont st.
Wm. C. Trefren,	Jan. 13, 1861,	Hoseman,	Carpenter,	Somerville ave.
Daniel W. McDermott,	March 14, 1846,	Hoseman,	Painter,	Somerville ave.

Feet of hose laid	10,250
Miles run	185
Chemical extinguishers used	25
Feet of ladders used	650

CHEMICAL ENGINE A.

Name.	Born.	Rank.	Occupation.	Residence.
Joseph A. Cribby,	Aug. 22, 1864,	Lieutenant,	Fireman,	Thorpe pl.
Jesse A. Lipsett,	Sept. 3, 1865,	Operator,	Fireman,	Thorpe pl.
Wilfred S. Young,	Aug. 7, 1874.	Hoseman,	Fireman,	Highland ave.

Bell alarms	140
First alarms	140
Second alarms	6
Responded to bell alarms	128
Responded to still alarms	11
Miles run	351½
Hose used	12,450 feet
Gallons of chemical water used	4,620
Feet of ladders used	240

There were 15 fires and 4 spark fires extinguished by Chemical A.

I desire to extend my thanks to His Honor, the Mayor, and the Committee on Fire Department for their co-operation in all matters appertaining to the department's efficiency.

J. R. HOPKINS,

Chief of Fire Department.

REPORT
OF THE
COMMITTEE ON FUEL AND
STREET LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FUEL AND STREET LIGHTS,
December 31, 1898.

TO THE CITY COUNCIL OF SOMERVILLE : —

The following is the final report of the Committee on Fuel and Street Lights for the year ending December 31, 1898 : —

SCHOOL FUEL ACCOUNT.

CREDIT.

Appropriation \$10,000.00

DEBIT.

Expenditures : —

For fuel at

Bell school	\$ 704.52
Bennett school	131.95
Bingham school	343.88
Burns school	137.98
Carr school	260.84
Cedar street school	44.74
Cummings school	136.72
Davis school	144.91
Durell school	232.63
Edgerly school	657.45
Forster school	438.37
Franklin school	5.25
Glines school	620.59
Hanscom school	349.68
Harvard school	24.47

Amounts carried forward \$4,233.98 \$10,000.00

<i>Amounts brought forward</i>	\$4,233.98	\$10,000.00
High school	1,129.11	
Highland school	703.83	
Hodgkins school	596.57	
Jackson school	168.69	
Knapp school	833.99	
Lincoln school	275.88	
Morse school	627.16	
Pope school	528.45	
Prescott school	454.64	
Prospect Hill school	204.53	
Incidentals	8.75	
	<hr/>	
Total debit		\$9,765.58
		<hr/>
Balance unexpended		\$234.42
		<hr/> <hr/>

STREET LIGHTS ACCOUNT.

CREDIT.

Appropriation	\$45,000.00
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DEBIT.

For electric lighting	\$43,337.81	
Welsbach lighting	487.75	
Changing locations of elec- tric poles	15.00	
Incidentals	57.00	
	<hr/>	
Total debit		\$43,897.56
		<hr/>
Balance unexpended		\$1,102.44
		<hr/> <hr/>

In pursuance of an order dated May 11, 1898, the following proposals were received for the furnishing of fuel for the school-houses and public buildings of the city.

NAMES OF BIDDERS.	Furnace coal per ton.	Egg coal per ton.	Stove coal per ton.	Soft wood per cord.	Hard wood per cord.
Baker-Hunnewell Co.	\$4.31	\$4.44	\$4.73	\$5.50	\$6.50
I. L. Smith	4.24	4.24	4.24	5.50	6.75
Wellington-Wild Coal Co.	4.17	4.32	4.32	4.75	6.50

The contract was awarded to the Wellington-Wild Coal Co., for one year from July 1, 1898. Under this contract \$9,765.58 was expended for fuel, and distributed in the various buildings, as shown in the table of expenditures; there remaining to the credit of this account, December 31, the sum of \$234.42.

ELECTRIC STREET LIGHTS.

The number of street lights in the city January 1, 1898, was 361 arc lights, and 219 incandescent lights. Eight incandescent lights which were maintained at the subway at Kent street and Sacramento street have been discontinued. No lights have been added during the year, but since May 1 the city has maintained one incandescent light in Spring Hill terrace, theretofore provided by private enterprise. The present number of incandescent lights is 211.

The contract with the Somerville Electric Light Co. expired in October, 1897. Under that contract the city paid \$120.00 per year for each arc light and \$25.00 for each incandescent; deducting for outs at the rate of six cents for each hour that an arc light failed to burn, and one cent per hour for such failure of an incandescent light. The arc lights are of a nominal 1,200 candle power and the incandescents of twenty-five.

A new contract was made November 1, 1898, with the Somerville Electric Light Co., which will continue in force until November 1, 1900, and thereafter until a new contract shall have been made. Under this contract the price, dating from October 1, 1897, was reduced to \$110.00 per year for each arc light, but remained at \$25.00 for incandescents, remaining at the same as under the former contract. The deductions for outs per hour under the new contract are two and 87-100 cents for each arc light, and 65-100 cents for each twenty-five candle power incandescent light. If an arrangement be made for the introduction of any incandescent lights, the city should increase the power of the incandescent, thirty-two candle power; the price will be at the rate of \$30.00 per light, with a deduction of 78-100 cents per hour for each hour the lights refuse to burn, during the schedule time required.

WELSBACH STREET LIGHTS.

Under authority of an order dated June 22, 1898, the Committee made a contract with the Welsbach Street Lighting Co. of America for the furnishing, for three years from September 15, 1898, of 117 street lights, and as many additional lights as the city may, from time to time, require. The price paid for each light is \$30.00 per year; the company furnishing everything required, including connections with gas mains, lighting, extinguishing, and cleaning the lights, and maintaining them at a uniform candle standard of candle power. At the present time there are 71 gas lights, and 46 naphtha lights in service. Your committee is much pleased with these lights and feels that they are a great improvement over the incandescent electric lights, as regards brilliancy, and for the reason that they do away with the necessity of erecting unsightly poles in our public streets for the purpose of supporting wires for electricity. We trust the Committee of 1899 will give these lights a thorough trial, and in so doing we feel that many more lights will soon be added to the number now in use. Streets that have never been lighted before are now provided with them, and the people are loud in their praise.

For the Committee,

JAMES F. DAVLIN, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
COMMITTEE ON PUBLIC PROPERTY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 18, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 18, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON PUBLIC PROPERTY,
December 31, 1898.

TO THE CITY COUNCIL OF SOMERVILLE:—

The Committee on Public Property presents the following report for the year 1898:—

POLICE STATION INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$2,000.00
Receipts:—	
For rent of court room	600.00
	<hr/>
Total credit	\$2,600.00

DEBIT.

Expenditures:—	
For janitor's salary	\$850.00
Gas	546.04
Water	54.74
Fuel	312.93
Supplies	9.11
Disinfectant	30.50
Labor	28.00
Repairs and improvements of building and fur- niture	267.14
	<hr/>
Total debit	\$2,098.46
	<hr/>
Balance unexpended	\$501.54
	<hr/> <hr/>

SCHOOLHOUSE INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$17,000.00	
Receipts :—		
For sand and gravel from Hodg-		
kins school lot	50.00	
Insurance on account of fire		
at Prescott schoolhouse	250.00	
Cleaning furniture at Pres-		
cott schoolhouse	4.00	
		<hr/>
Total credit		\$17,304.00

DEBIT.

Expenditures :—		
For repairs and improvements		
of buildings	\$8,085.46	
Furniture	2,407.32	
Repairing furniture	167.20	
Repairing heating and ven-		
tilating apparatus	1,582.83	
Flags and repairs of same	139.88	
Care of grounds	197.40	
Teaming furniture	76.69	
Repairing blackboards	370.62	
Maintenance of repair shop	166.16	
Water	1,268.31	
Gas	818.63	
Electric lighting	44.25	
Electric current for motor	142.30	
Insurance	500.00	
Sidewalk assessment	59.34	
Removing brown-tail moths	28.75	
Cleaning vault	12.00	
Tablet at Martin W. Carr		
school	60.00	
		<hr/>
Amounts carried forward	\$16,127.14	\$17,304.00

<i>Amounts brought forward</i>	\$16,127.14	\$17,304.00
Cleaning building after construction	111.75	
School supplies	658.03	
Carriage hire, travelling expenses, etc.	44.72	
Incidentals	4.65	
	<hr/>	
Total debit		\$16,946.29
		<hr/>
Balance unexpended		\$357.71
		<hr/> <hr/>

The expenditures at the various schoolhouses were as follows :—

Luther V. Bell.

Repairs and improvements	\$886.61	
Furniture	131.90	
Repairing furniture	3.95	
Repairing heating apparatus	124.93	
Teaming furniture	1.75	
Water	139.12	
Gas	171.41	
Supplies	10.60	
	<hr/>	\$1,470.27

Bennett.

Repairs and improvements	\$30.07	
Furniture	52.70	
Repairing heating apparatus	20.50	
Water	19.74	
	<hr/>	123.01

Bingham.

Repairs and improvements	\$107.05	
Repairing heating apparatus	13.49	
Teaming furniture	1.00	
Flags and repairs same	8.65	
Water	33.60	
	<hr/>	163.79

<i>Amount carried forward</i>		\$1,757.07
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Amount brought forward \$1,757.07

Burns.

Repairs and improvements	\$126.50	
Repairing furniture	4.00	
Repairing heating apparatus	50.03	
Teaming furniture	5.50	
Repairing blackboards	69.44	
Flags and repairs same	9.20	
Water	19.46	
Gas	2.03	
	<hr/>	286.16

Martin W. Carr.

Repairs and improvements	\$352.95	
Furniture	186.49	
Teaming furniture	18.75	
Flags and repairs same	15.00	
Water	18.90	
Gas	3.35	
Supplies	53.39	
Insurance	450.00	
Cleaning after construction of building	111.75	
Tablet	60.00	
	<hr/>	1,270.58

Cedar Street.

Repairs and improvements	\$128.26	
Repairing furniture	2.00	
Repairing heating apparatus	16.75	
Flags and repairs same	5.00	
Water	13.00	
Cleaning vault	12.00	
	<hr/>	177.01

Amount carried forward \$3,490.82

Amount brought forward \$3,490.82

Cummings.

Repairs and improvements	\$73.34	
Repairing heating apparatus	22.00	
Teaming furniture . . . . .	.50	
Flags and repairs of same	6.00	
Water	34.44	
Supplies	7.70	
	<hr/>	143.98

Davis.

Repairs and improvements	\$336.53	
Repairing furniture . . . . .	.70	
Repairing heating apparatus	31.47	
Teaming furniture	1.72	
Water	22.40	
Gas	2.76	
Supplies	1.09	
	<hr/>	396.67

George W. Durell.

Repairs and improvements	\$61.60	
Repairing heating apparatus	40.53	
Teaming furniture	2.88	
Flags and repairs of same	8.65	
Water	13.00	
	<hr/>	126.66

Edgerly.

Repairs and improvements	\$223.58	
Furniture	209.00	
Repairing heating apparatus	26.32	
Teaming furniture	7.75	
Repairing blackboards	90.08	
Flags and repairs of same	6.00	
Water	15.42	
Gas	29.36	
Supplies	10.54	
	<hr/>	618.05

Amount carried forward \$4,776.18

Amount brought forward \$4,776.18

Forster.

Repairs and improvements	\$2,253.68	
Furniture	248.75	
Repairing furniture	12.00	
Repairing heating apparatus	52.56	
Care of grounds	3.75	
Teaming furniture	8.10	
Flags and repairs of same	11.00	
Water	104.93	
Gas	47.86	
	<hr/>	2,742.63

Franklin.

Repairs and improvements	\$20.46	
Water	25.00	
	<hr/>	45.46

Jacob T. Glines.

Repairs and improvements	\$447.14	
Repairing heating apparatus	124.13	
Care of grounds	76.55	
Teaming furniture	10.74	
Flags and repairs of same	11.00	
Water	114.13	
Gas	9.65	
Supplies	11.95	
	<hr/>	805.29

Sanford Hanscom.

Repairs and improvements	\$54.38	
Repairing heating apparatus	43.03	
Teaming furniture	2.00	
Flags and repairs of same	6.00	
Water	25.00	
Gas	4.64	
Supplies	16 95	
	<hr/>	152.00

Amount carried forward \$8,521.56

Amount brought forward \$8,521.56

Harvard.

Repairs and improvements	\$29.31	
Repairing heating apparatus	7.55	
Teaming furniture	1.00	
Flags and repairs of same	5.00	
Water	13.00	
	<hr/>	55.86

English High.

Repairs and improvements	\$361.46	
Furniture	573.43	
Repairing furniture	64.41	
Teaming furniture . . . . .	.50	
Flags and repairs of same	4.19	
Gas	145.03	
Supplies	28.20	
Electric lighting	44.25	
Electric current for motor	142.30	
	<hr/>	1,363.77

Latin High.

Repairs and improvements	\$254.73	
Furniture	42.53	
Repairing furniture	15.00	
Repairing heating apparatus	113.83	
Water	279.12	
Gas	177.89	
Supplies	2.85	
	<hr/>	885.95

Highland.

Repairs and improvements	\$238.02	
Furniture	105.75	
Repairing furniture	15.00	
Repairing heating apparatus	73.00	
Teaming furniture . . . . .	.75	
	<hr/>	
<i>Amounts carried forward</i>	\$432.52	\$10,827.14

<i>Amounts brought forward</i>	\$432.52	\$10,827.14
Flags and repairs of same	24.94	
Water	28.14	
Gas	61.45	
Supplies	10.73	
	<hr/>	557.78

William H. Hodgkins.

Repairs and improvements	\$273.21	
Repairing heating apparatus	307.31	
Care of grounds	42.75	
Teaming furniture	1.75	
Water	58.66	
Gas	16.48	
Supplies	10.52	
	<hr/>	710.68

Jackson.

Repairs and improvements	\$408.47	
Repairing furniture	3.70	
Repairing heating apparatus	28.65	
Teaming furniture	1.00	
Water	13.00	
Supplies	7.55	
	<hr/>	462.37

O. S. Knapp.

Repairs and improvements	\$208.27	
Furniture	270.19	
Repairing furniture	4.20	
Repairing heating apparatus	167.79	
Care of grounds	19.85	
Teaming furniture	1.00	
Repairing blackboards	53.92	
Flags and repairs of same	5.00	
Water	24.64	
Gas	54.94	
Supplies	19.46	
	<hr/>	829.26

<i>Amount carried forward</i>		<hr/>	\$13,387.23
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Amount brought forward \$13,387.23

Lincoln.

Repairs and improvements	\$45.22	
Repairing furniture	4.00	
Repairing heating apparatus	24.40	
Care of grounds	2.50	
Teaming furniture . . . . .	.50	
Flags and repairs of same	5.00	
Water	13.00	
Supplies	1.36	
Insurance	50.00	
	<hr/>	145.98

Morse.

Repairs and improvements	\$140.70	
Furniture	205.78	
Repairing furniture	12.00	
Repairing heating apparatus	57.72	
Teaming furniture	2.75	
Repairing blackboards	113.46	
Water	25.00	
Gas	15.95	
Supplies	11.90	
	<hr/>	585.26

Charles G. Pope.

Repairs and improvements	\$156.90	
Furniture	173.80	
Repairing heating apparatus	158.67	
Care of grounds	52.00	
Teaming furniture	1.50	
Flags and repairs of same	3.25	
Water	74.74	
Gas	12.42	
Supplies	20.36	
Sidewalk assessment	59.34	
	<hr/>	712.98

Amount carried forward \$14,831.45

Amount brought forward \$14,831.45

Prescott.

Repairs and improvements	\$627.38	
Furniture	207.00	
Repairing furniture	21.75	
Repairing heating apparatus	32.68	
Teaming furniture	2.75	
Repairing blackboards	26.52	
Flags and repairs of same	6.00	
Water	127.87	
Gas	63.41	
Supplies	21.10	
	<hr/>	\$1,136.46

Prospect Hill.

Repairs and improvements	\$239.64	
Repairing furniture	4.49	
Repairing heating apparatus	45.49	
Care of grounds	2.50	
Repairing blackboards	17.20	
Water	13.00	
Supplies	2.90	
	<hr/>	325.22
Maintenance of repair shop		166.16
School supplies (brushes, dusters, baskets, soap, etc.)		408.88
Removing brown-tail moths from trees in school- yards		28.75
Carriage hire, travelling expenses, etc.		44.72
Incidentals		4.65
		<hr/>
Total debit		<u>\$16,946.29</u>

SCHOOL CONTINGENT, JANITORS' SALARIES, ACCOUNT.

CREDIT.

Appropriation	\$17,000.00
	<hr/>
<i>Amount carried forward</i>	\$17,000.00

Amount brought forward \$17,000.00

DEBIT.

Expenditures :—

For salaries of janitors of school buildings for
the year 1898 \$17,372.58

Amount overdrawn \$372.58

ARMORY ACCOUNT.

CREDIT.

Appropriation \$15,000.00

DEBIT.

Transfer to Schoolhouse, Spring
Hill District account . . . \$ 521.03

Transfer to Prospect Hill Park
account 356.21

Transfer to Schoolhouse, Ward
Two, account 4,000.00

Total debit \$4,877.24

Balance unexpended \$10,122.76

SUPPORT OF POOR, ALMSHOUSE, ACCOUNT.

CREDIT.

Appropriation \$20,000.00

Balance unexpended \$20,000.00

SCHOOLHOUSE, LAND IN WARD TWO, ACCOUNT.

CREDIT.

Balance unexpended December 31, 1897 \$94.75

DEBIT.

Expenditures :—

For right to purchase, and payment on account
of, land \$94.00

Balance unexpended \$.75

SCHOOLHOUSE, WARD TWO, ACCOUNT.

CREDIT.	
Appropriation	\$34,000.00
Transferred from Armory account	4,000.00
Received from sale of old buildings	70.00
	<hr/>
Total credit	\$38,070.00
DEBIT.	
Expenditures :—	
Balance of amount paid for land and buildings	\$9,122.00
Taxes for 1898	139.53
Prescott & Sidebottom, payment on account of architects' service	582.50
Incidentals	4.50
	<hr/>
Total debit	\$9,848.53
	<hr/>
Balance unexpended	<u>\$28,221.47</u>

SCHOOLHOUSE, ENGLISH HIGH, ACCOUNT.

CREDIT.	
Appropriation	\$1,000.00
Received from Schoolhouse Incidentals account	114.30
	<hr/>
Total credit	\$1,114.30
DEBIT.	
Expenditures :—	
For carpenter work	\$379.30
Heating and ventilating apparatus	165.00
Ash cases	236.00
Gas fixtures	25.00
Telephones	309.00
	<hr/>
Total debit	<u>\$1,114.30</u>

SCHOOLHOUSE, SPRING HILL DISTRICT, ACCOUNT.

CREDIT.

Balance unexpended December 31, 1897	\$32,920.57	
Appropriated in 1898	6,000.00	
Transferred from Sewers Construction account	600.00	
Transferred from Armory account	521.03	
	<hr/>	
Total credit		\$40,041.60

DEBIT.

Expenditures :—		
W. L. Clark & Co., balance of contract for construction	\$27,330.00	
W. L. Clark & Co., extra work	1,468.89	
A. A. Sanborn, contract for heating and ventilating apparatus	5,500.00	
A. A. Sanborn, extra work	215.00	
Aaron H. Gould, balance on account of architect's services	874.32	
Highways account, edgestones	37.59	
Sidewalks account, labor and materials	23.80	
Sidewalk assessment	69.60	
Drain work, sewer connection, etc.	369.47	
Gas service pipe and connecting meter	24.46	
Blackboards	28.60	
Gas fixtures	83.05	
Furniture	2,893.25	
Window shades	169.56	
Building fence	102.95	
	<hr/>	
<i>Amounts carried forward</i>	\$39,190.54	<hr/> \$40,041.60

<i>Amounts brought forward</i>	\$39,190.54	\$40,041.60
Stone steps	160.00	
Mason work	149.30	
Grading	257.50	
Concreting	282.26	
Running boiler	2.00	
	<hr/>	
Total debit		<u>\$40,041.60</u>

SCHOOLHOUSE, PRESCOTT, HEATING AND VENTILATING, ACCOUNT.

	CREDIT.	
Appropriation		\$6,000.00
	DEBIT.	
Expenditures :—		
A. A. Sanborn, plans and specifications	\$ 165.27	
Alexander Duncan & Co., on account of contract	3,000.00	
Mason work	54.37	
Water service pipe	68.90	
Plastering	139.92	
Lead pipe	17.85	
Plumbing	69.92	
	<hr/>	
Total debit		<u>\$3,516.23</u>
		<hr/>
Balance unexpended		<u>\$2,483.77</u>

EXPENDITURES, BY THIS COMMITTEE, FROM MISCELLANEOUS ACCOUNT.

City Hall Expenses :—	
For repairs and improvements of building	\$677.15
Furniture	431.02
Repairing furniture	19.83
Repairing heating apparatus	6.65
	<hr/>
<i>Amount carried forward</i>	\$1,134.65

<i>Amount brought forward</i>	\$1,134.65	
Water	43.68	
Fuel	461.71	
Gas	19.20	
Electric lighting	726.60	
Telephones	584.42	
Supplies	74.62	
Expressing bundles	20.75	
Labor	79.50	
Typewriting machine	92.25	
Ice	32.15	
Teaming rubbish	7.00	
	<hr/>	\$3,276.53

City Hall Annex:—

For repairs and improvements of building	\$ 19.03	
Repairing heating apparatus	47.50	
Water	42.33	
Gas	3.07	
Electric lighting	33.15	
Fuel	123.52	
Janitor's salary	420.00	
Expressing bundles	1.15	
Awnings	50.00	
Screens	114.25	
Tablet	55.00	
	<hr/>	909.00

Maintenance of city messenger's teams 595.20

Election Expenses:—

For fitting up polling places, repairs of boxes, fittings, etc.	\$315.73	
Care of rooms for elections and caucuses	98.65	
Rent of rooms and halls for elections and caucuses	234.00	
	<hr/>	648.38

Total expenditures \$5,429.11

ALMSHOUSE.

The committee regrets that so many unavoidable obstacles have delayed the purchase by the city of some suitable site for an almshouse. Early in the year the committee commenced to look about for some suitable location which might be secured, examining a number of pieces of property in the vicinity of Broadway and North street.

One of the estates considered by the committee was the estate of Levi Russell, fronting on Broadway and North street, containing about 435,600 square feet of land, with house, sheds and barn thereon, and the committee fully agreed that this estate was the most suitable for the purposes desired that could be obtained. Particularly was this considered to be a wise purchase for the city to make, since at an outlay of only a small amount, the buildings already on the land could be put in excellent condition for the use of the Poor department for a number of years.

After due consideration, the findings of the committee were reported to the city council and authority was granted to purchase the estate for the sum of \$18,000.00 ; but as a satisfactory title could not be given, the purchase has not been made.

It will probably be necessary to secure such legislation from the General Court as shall authorize the city to take the estate for almshouse purposes, and your committee recommends that such legislation be petitioned for as early in the year as possible.

ARMORY.

The matter of providing better quarters for the local militia company is one that has been strongly urged before the city council for several years, and was carefully considered by His Honor, Mayor Perry, in his inaugural address of 1898. It seemed to the committee at the beginning of the year that this matter should be definitely settled, and that a new armory should be commenced at an early date, and acting upon the recommendations of the committee, the city council, on July 1st, appropriated the sum of \$15,000.00 for this purpose. But

previous to this appropriation being made, war had been declared, and our local company had been hurried away, with other Massachusetts companies, so the matter of an armory was allowed to remain dormant.

Whether or not the erection of an armory by the city at some future time will be necessary is at present an unsettled question, as the matter of ownership of armories is still under consideration by the General Court. The commission appointed by the Governor to inquire into the advisability of changing the militia laws, so that the Commonwealth should provide all armories, having reported in favor of the State owning, or leasing, and controlling armories, it would seem to this committee most wise to follow the recommendation of His Honor, Mayor Perry, made in his valedictory address to the city council, "that no money should be expended in the erection of an armory until the Legislature takes action on the recommendation of the commission."

SCHOOLHOUSE IN WARD TWO.

Land for a schoolhouse in Ward Two was secured early in the year, but the purchase was not consummated until after the appropriation for the same was made in July. The land purchased is situated on the northerly side of Washington street, near Dane street, with a frontage on Washington street of about 132 feet, and contains about 46,080 square feet. This is one of the largest school lots in the city, and, although at present it is planned to erect but a six-room building, the location of the building is such that it can be enlarged to twelve, or even eighteen rooms, if it should be considered advisable at any time. The cost of the land was \$9,216.00, together with taxes for 1898, which amounted to \$139.53.

Plans and specifications were prepared by Prescott & Sidebottom, architects, for a six-room brick building, two stories in height, with a ward-room in the basement; and a contract has been made with John A. Dodge for the construction of the building for the sum of \$23,300.00.

The work is now being carried on, under the contract, and will be completed, and the building ready for occupancy, for the fall term of 1899.

MARTIN W. CARR SCHOOL.

This building, which was commenced by the committee of 1897, has been completed during the present year and was occupied at the beginning of the fall term in September.

There are fourteen large schoolrooms (it having been found necessary to convert the hall on the third floor into two schoolrooms), besides several smaller rooms originally designed for recitation rooms, but in which chairs and desks have been placed and which are being utilized as classrooms, making this the largest grammar school building in the city.

The total cost of the land and building, including heating and ventilating apparatus, furniture, fittings, etc., was \$62,121.03.

PRESCOTT SCHOOLHOUSE, HEATING AND VENTILATING.

The old heating apparatus at this building, which had become too much worn to give satisfactory service, has been entirely removed and new apparatus substituted.

Plans and specifications for the work were prepared by A. A. Sanborn, and the contract was awarded to Alexander Duncan & Co. for the sum of \$5,509.00.

The present apparatus is of the most approved kind for steam heating and ventilating, and the ventilation is now most satisfactory and fully meets the requirements of the State inspection.

ENGLISH HIGH SCHOOL.

During the summer vacation the draughting room on the upper floor has been considerably enlarged, the heating and ventilating system on this floor greatly improved and put in good order, and other general repairs and improvements have been made throughout the building.

A complete telephone system has been installed, bringing the several rooms into communication with the office.

MISCELLANEOUS IMPROVEMENTS.

At the Forster schoolhouse the woodwork has been thoroughly cleaned and painted and new floors and stairs laid throughout the building.

The Davis, Jackson, and Prospect Hill schoolhouses have all been painted outside, and necessary repairs have been made upon them.

A detailed statement of the various repairs and improvements which have been made in the schoolhouses and public buildings during the year will be found in the report of the Superintendent of Public Buildings.

For the Committee,

SILAS L. CUMMINGS, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
SUPERINTENDENT OF PUBLIC
BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 26, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS,

January 2, 1899.

TO THE HONORABLE, THE MAYOR, AND THE CITY COUNCIL.

Gentlemen:—In compliance with City Ordinance No. 19, Section 8, this report is respectfully submitted.

Repairs, alterations, and additions have been made during the past year at the several city buildings, as follows:—

Luther V. Bell School.—Principal's office enlarged; furniture changed; new curtains to all windows; upper floors newly piped for gas and new fixtures for four rooms.

Bennett School.—Heating apparatus repaired; furniture repaired.

Burns School.—Furniture repaired; heating apparatus repaired.

Bingham School.—Heating apparatus repaired.

Cedar Street School.—Small repairs.

Martin W. Carr School.—This new building, which has been finished during the past year, is located on Beech street, and is one of the finest in the city. It contains 14 school-rooms and several recitation rooms, fitted with all modern improvements.

Cummings School.—Roof repaired; furniture cleaned and varnished; heating apparatus repaired.

Davis School.—Newly painted outside; ceilings whitened and furniture repaired.

George W. Durell School.—Heating apparatus repaired; furniture repaired.

Edgerly School.—Blackboard repaired; new adjustable furniture in one room; old furniture scraped and varnished.

Forster School.—New floors in all rooms; halls and stairs, all standing finish,—doors, etc., painted, grained, and varnished; ventilation improved; and the whole building put in fine condition. The wardroom has been used for school purposes since last April.

Franklin School.—This was discontinued on the opening of the Beech Street school.

Jacob T. Glines School.—Walls and ceilings in all the rooms and corridors tinted; furniture repaired; grading around the building finished; sods laid at the edge of all walks and the balance seeded down, making fine lawns.

Sanford Hanscom School.—Few repairs done.

Harvard School.—Heating apparatus repaired; furniture repaired.

English High School.—Improvements were made by enlarging drawing-room; heating and ventilating were improved; furniture repaired and varnished.

Latin High School.—Heating apparatus repaired. Small repairs needed this year.

Highland School.—Furniture repaired; new conductors for part of building; heating apparatus repaired.

Jackson School.—Newly painted outside; new outside steps; heating and plumbing repaired; furniture repaired; new curtains to all windows.

O. S. Knapp School.—Blackboard repaired; new shades in rooms, so that all windows have them; heating apparatus repaired; new cases put in four rooms; carpets in principal's and teachers' rooms.

Lincoln School.—Repairs on furniture and heating apparatus.

Morse School.—Heating apparatus and furniture repaired; new blackboards in several rooms.

Charles G. Pope School.—New shades in all rooms; furniture repaired, also heating apparatus.

Prescott School.—New heating and ventilating fan system adopted; blackboards in several rooms. A small fire between two floors caused some repairs,—two new floors being laid, walls painted and ceilings whitened. Adjustable furniture has been placed in two rooms.

Prospect Hill School. — Painted outside ; steps changed outside ; heating apparatus repaired, and such other repairs as were needed.

FREDERICK C. FULLER,
Superintendent of Public Buildings.

REPORT
OF THE
INSPECTOR OF BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 26, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF INSPECTOR OF BUILDINGS,

January 2, 1899.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL.

Gentlemen: — In accordance with city ordinance, the following report of this department for the year ending December 31, 1898, is respectfully submitted.

The number of building permits issued during the year was 344, covering 380 buildings, classified as follows:—

	WARDS.				TOTALS.
	1	2	3	4	
Single dwellings	8	15	34	114	171
Double dwelling-blocks . . . . .	..	2	2	1	5
Alterations and additions	7	26	32	34	99
Stables	3	2	13	7	25
Stores	8	15	13	6	42
Shops . . . . .	..	3	3	2	8
Offices	1	2	..	..	3
Stores and tenements . . . . .	..	..	1	..	1
Sheds	6	7	4	3	20
Storehouses	2	..	3	..	5
Brick buildings . . . . .	..	..	1	..	1
	35	72	106	167	380
Families	19	44	73	207	343

Frequent examinations have been made of buildings in course of construction or alteration, and in all cases of faulty construction, violation of ordinance, or danger from fire, the owners and builders have, on notice, complied with the orders of the Inspector.

Special attention has been given to the following cases : —

Woodwork too near chimney	5
Cellar walls improperly built	2
Brick partition wall ordered	1

Great assistance was rendered by the police, by sending parties after permits before they had done any work. This gives the Inspector a chance to see the foundation put in.

City buildings have been erected, or additions made thereto, as follows : —

One new fourteen-room schoolhouse on Beech street. A new six-room schoolhouse is being erected on Washington street, Ward Two, to be completed before the September term opens. A new fire station is being erected on Holland street, Ward Four, which will be completed at an early date.

The best of results have been obtained from changes made in the building ordinance. I recommend that the present ordinance be revised this year and an ordinance made governing gas piping.

The number of plumbing permits issued during the year was	457
Permits for plumbing in old buildings	255
Permits for plumbing in new buildings	202
Number of buildings in which pipes were tested with water	403

The Inspector has kept himself informed of the condition of the plumbing as the buildings have progressed, and, as necessity required, given directions how the work should be done.

The following is the number of licenses and renewals of licenses issued to plumbers during the year, under the Acts of 1893 and 1894, and receipts for the same paid to the City Treasurer : —

Number of master plumbers' licenses issued, 6	\$12.00
Number of journeymen plumbers' licenses issued, 7	3.50
Number of master plumbers' licenses renewed, 21	10.50
	<hr/>
<i>Amount carried forward</i>	\$26.00

<i>Amount brought forward</i>	\$26.00
Number of journeymen plumbers' licenses renewed, 14	7.00
	<hr/>
	\$33.00

Applications for master plumbers' licenses rejected, 2.

Applications for journeymen plumbers' licenses rejected, 2.

Respectfully submitted,

FREDERICK C. FULLER,

Inspector of Buildings.

REPORT
OF THE
INSPECTOR OF MILK AND VINEGAR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE INSPECTOR OF MILK AND VINEGAR,
50 MORRISON STREET, January 7, 1899.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL.

Gentlemen:—I present herewith the following report for the year ending December 31, 1898:—

I have given to dealers in milk 165 licenses, and received in fees \$127.50. Of the 165 that took out licenses I find but fifty that confine their sales to this city alone, the remainder going into the surrounding cities and towns also. These dealers supply daily to their customers an average of 94 1-2 gallons, or a total of 15,728 gallons daily. Of this amount, only 1,138 gallons are raised by the dealers themselves, the balance coming in on the cars from the country towns.

While the number of licenses taken out is less than in some past years, the sales per license have greatly increased. This concentration of business has been the general tendency in most lines of trade the past few years. The rapid growth of the city has crowded out those that used to keep from one to three cows each.

There have also been taken out ninety permits to sell milk in stores of various kinds, showing a large increase of small stores or change of proprietors in old ones. These stores get their supply from the before-mentioned dealers.

I have during the year taken, from time to time, from different dealers, 425 samples, and tested the same by the lactoscope, and also taken the specific gravity of each sample, together with many samples brought in by dealers for that purpose, and made a record of each sample tested.

The tests for cream, or fat, show a much higher average than in the last two years, owing doubtless to the abundance of good

grass the past year, and also to the weeding from the herds of those breeds of cows whose milk has been found by tests made to be lacking in quality although abounding in quantity. While the quality has varied some in different months, owing to natural causes, there has been no indication of adulteration, and while some samples have been found defective in cream, I have traced the trouble to the defective manner of sales as generally made in most stores. If some uniform mode of sale could be established in stores and markets, each customer would get an average part of the cream, which all recognize as the most valuable part of milk. I have sent the customary notices in all cases where I have found a sample below the standard, and upon later tests have found the desired improvement.

I have kept office hours at Union, Gilman, and Davis squares, in May, for the convenience of the dealers in the different sections of the city in obtaining their annual licenses. I have found quite a number selling milk from carriages without a license, and quite indifferent as to the law in this respect, even after a personal notification. I have entered complaints against the most indifferent, and two have paid fines in the municipal court as the law provides.

I find most of the vinegar sold in Somerville is from the well-known works of Amos Haynes, the quality of which is always of the best, and considered everywhere as up to the standard. Have therefore had no complaint from any source in regard to that article.

Respectfully submitted,

CHARLES S. PHILBRICK,
Inspector of Milk and Vinegar.

REPORT
OF THE
INSPECTOR OF ANIMALS AND
PROVISIONS

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 26, 1899.

Reference concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF INSPECTOR OF ANIMALS AND PROVISIONS,

January 2, 1899.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL.

Gentlemen:—I present the following report of the records of this office and duties performed by me for the year ending December 31, 1898.

There are five slaughtering establishments in the city, the proprietors and location of which and the number of animals slaughtered during the year are as follows:—

John P. Squire & Co. Corporation, Medford street, 759,380 swine; North Packing & Provision Co., Medford street, 877,093 swine; New England Dressed Meat & Wool Co., Medford street, 8,790 cattle, 40,443 calves, 405,767 sheep, 663 swine; Sturtevant & Haley Beef and Supply Co., Somerville avenue, 5,611 cattle; Mrs. Hertz Gunsenhiser, 104 North street, where slaughtering is done principally for the Jewish population, 724 cattle, 351 calves; total number of animals slaughtered in the city during the year, 2,098,822. All of the slaughtering establishments are at the present time in very good condition. Somerville is the third largest slaughtering city in the United States.

The number of animals received for export at the New England stock yards during the year was 51,572 cattle, 18,321 sheep, and 595 swine.

I have made 416 visits to slaughter houses, inspected the animals and the premises hereinafter referred to, and performed other duties, as follows:—

There are 287 cows in our city, 59 swine, and 3 sheep, kept for domestic purposes. Seven horses were quarantined, which were afterward killed by order of the State Board of Cattle

Commissioners, and 34 were killed by consent of the owners. All of these horses had contagious diseases. There are 391 grocery and provision stores in Somerville, and 313 wagons from which produce and provisions are sold on the street. Of these wagons, 200 are registered.

I have condemned and caused to be destroyed 29 calves, 7 cows, 3 swine, 4 sides of beef, 237 mackerel, 155 pounds of fish, 793 pounds of poultry, 7 livers, 10 bushels of vegetables, 77 boxes of berries, 95 dozen bananas, and 11 crates of tomatoes.

So far as possible, I have kept myself informed in regard to the duties of my office.

Respectfully,

CHARLES M. BERRY,

Inspector of Animals and Provisions.

REPORT
OF THE
SEALER OF WEIGHTS AND MEASURES.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 11, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF SEALER OF WEIGHTS AND MEASURES,
42 SARGENT AVENUE, SOMERVILLE, January 5, 1899.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL.

Gentlemen:—The report of the Sealer of Weights and Measures for the year 1898 is respectfully submitted, and is as follows:—

Number of weights and measures tested and sealed.

Scales	1,017	
Weights	2,881	
Dry measures	1,245	
Liquid measures	1,115	
Coal baskets	31	
Yard sticks	87	
Tin milk cans	5,112	
Glass milk jars	2,317	
Glass cream jars	10,393	
	24,198	

Number of weights and measures tested and condemned.

Scales	28	
Weights	8	
Dry measures	26	
Liquid measures	17	
Milk jars	135	
Cream jars	1,785	
	1,999	
Scales tagged	13	
	26,210	

In the year 1898 I tested double the number of weights and measures ever tested in any one year in this city. Of the whole number, 19,742 were tested in my office, and the balance, 6,468, were tested on the streets and in business places.

In April, notice was given through the Somerville papers for parties using weights or measures for buying or selling to bring them to the office to be tested ; and in June, July, August, September and October, I visited all places in Somerville where goods were bought or sold, tested and sealed all found correct, adjusted a great many, tagged 13 scales, and condemned all found beyond repair and useless.

Two hundred and seventy-seven peddlers and junk collectors have brought their weights and measures to the office to be tested, and I have looked over and tested their weights and measures every time I have met them on the streets. I found a great improvement in this class of dealers over 1897.

I find the glass milk and cream jars worse than any other measures. Of these measures I have tested 14,630, of which number 12,710 were correct, and sealed, and 1,920 were found to be incorrect and were condemned. People should take pains and see that these jars left at their houses as quarts, pints and half pints are sealed, as it will be seen that nearly 15 per cent. have been found incorrect. The seal is S., and the year '98 or '99, as the case may be, written with acid on the glass. As the acid eats in and cannot be erased, a bottle once sealed can always be identified. The Sealer marks the year in which the sealing is done, and before it the initial letter of the city or town in which he serves. Bottles sealed by me are marked S. '98 ; those sealed in Cambridge, C. '98, etc.

The expenses and receipts for the year 1898 are as follows : —

Printing, advertising and postage	\$ 16.25	
Stamps, brands and acid	14.72	
Man and team	105.00	
Sealer's salary	400.00	
	<hr/>	\$535.97

Fees collected and paid to treasurer	. \$278.93	
Fines collected and paid to treasurer	. 25.00	
Net expense	. 232.04	
	—————	\$535.97

JOHN H. DUSSEAULT,

Sealer of Weights and Measures.

REPORT
OF THE
CITY SOLICITOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 8, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 9, 1899.

Referred to Committee on Printing, to be printed in the annual reports, in
concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

January 23, 1899.

TO THE HONORABLE, THE MAYOR, AND CITY COUNCIL OF THE
CITY OF SOMERVILLE:—

Gentlemen:—I present herewith my report as City Solicitor for the year 1898.

The following cases pending in the courts were on the trial list or otherwise acted upon:—

1. Osborn *vs.* City of Somerville.—Before Superior Court for Middlesex County. Action for damages alleged to have been suffered by reason of change of grade of Porter street and Mountain avenue, opposite plaintiff's premises. Tried before Wm. Schofield, auditor, in September. Decision not yet rendered.

2. City of Somerville *vs.* City of Waltham.—Before Superior Court for Middlesex County. Action to recover back taxes paid on plaintiff's land in Waltham. Judgment for Somerville, and defendant appealed. The Supreme Court rendered a decision in favor of Somerville. This case was conducted by my predecessor in office. Judgment collected from defendant.

3. Reed *vs.* City of Somerville.—Before Superior Court for Middlesex County. Appeal from assessment of taxes of 1896.

4. Reed *et al. vs.* City of Somerville.—Before Superior Court for Middlesex County. Appeal from assessment of taxes of 1896.

5. Keef *vs.* City of Somerville.—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Bow street, October 16, 1896.

6. Wilkinson *vs.* City of Somerville.—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Russell street, November 17, 1896. Settled for \$125.

7. Knowles *vs.* City of Somerville.—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Franklin street, July 28, 1896. Tried and verdict rendered for \$450. Subsequently settled for \$400, without costs.

8. A. W. Bryne Construction Company *vs.* City of Somerville.—Before Superior Court for Middlesex County. Claim for damages on account of Tannery Brook sewer contract.

9. City of Somerville *vs.* A. W. Bryne Construction Company *et al.*—Before Superior Court for Middlesex County. Claim for damages on account of breach of Tannery Brook sewer contract.

10. City of Somerville *vs.* A. W. Bryne Construction Company. Before Superior Court for Middlesex County. Claim for damages on account of breach of Tannery Brook sewer contract. The above three cases were referred to an auditor.

11. Annie E. McCarthy *et al. vs.* City of Somerville.—Before Superior Court for Middlesex County. Petition for damages on account of land taken for Tannery Brook sewer.

12. John Byrnes *vs.* City of Somerville.—Before Superior Court for Middlesex County. Petition for damages on account of land taken for Tannery Brook sewer. Settled for \$450.

13. Daniel L. Demmon *vs.* City of Somerville.—Before Superior Court for Middlesex County. Petition for damages on account of land taken for Tannery Brook sewer.

14. Martin W. Carr *vs.* City of Somerville.—Before Superior Court for Middlesex County. Petition for damages on account of land taken for Tannery Brook sewer.

15. Patrick Flynn *vs.* City of Somerville.—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Concord avenue, May 28, 1897. Tried, and jury rendered a verdict in favor of the city.

16. *Berry et al. vs. E. F. Staples*, City of Somerville, trustee.—Before Police Court of Somerville. Question of trusteeing amounts due contractor for Sanford Hanscom School.

17. *William A. Sanborn vs. E. F. Staples*, City of Somerville, trustee.—Before Somerville Police Court. Question of trusteeing amounts due contractor for Sanford Hanscom School.

18. *Reed vs. City of Somerville*.—Before Superior Court for Middlesex County. Appeal from assessment of taxes of 1897.

19. *Read et al. vs. City of Somerville*.—Before Superior Court for Middlesex County. Appeal from assessment of taxes of 1897.

20. *Quirk vs. City of Somerville*.—Before Superior Court for Suffolk County. Action for personal injuries alleged to have been received on Broadway, July 23, 1897. Settled for \$276.59.

21. *Davis vs. City of Somerville*.—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Beacon street, November 10, 1896. Settled by payment of \$215 by the Somerville Electric Light Company and \$100 by the city.

22. *McCarthy vs. City of Somerville*.—Before Superior Court for Middlesex County. Petition to enforce a mechanic's lien on the Sanford Hanscom Schoolhouse. Dismissed by agreement.

23. *McCarthy vs. Staples and City of Somerville*, trustee.—Before Police Court of Somerville. Question of trusteeing amounts due contractor for Sanford Hanscom Schoolhouse.

24. *Berry et al. vs. Staples and City of Somerville*, trustee.—Before Police Court of Somerville. Question of trusteeing amounts due contractor for Sanford Hanscom Schoolhouse. Second action.

25. *Staples vs. City of Somerville*.—Bill in equity, Superior Court, to determine rights of parties claiming the balance due contractor for erection of Sanford Hanscom Schoolhouse.

26. *Joan C. Garth vs. City of Somerville*.—Action for personal injuries alleged to have been received on Day street, December 21, 1897. Settled for \$500.

27. Ella A. Duggan *vs.* City of Somerville. — Action for personal injuries alleged to have been received in subway under the Fitchburg Railroad.

28. Dorey *vs.* City of Somerville and others. — Bill in equity, Superior Court, to determine rights of parties claiming the balance due contractor for construction of sewer in Winthrop avenue. Dismissed by agreement.

29. Dorey *vs.* City of Somerville. — Superior Court. Action to recover balance due contractor for construction of sewer in Winthrop avenue.

30. City of Somerville *vs.* Boston & Maine Railroad. — Bill in equity, Superior Court, Middlesex County, to maintain rights of drainage east of Middlesex avenue.

31. City of Somerville *vs.* Administrators of estate of Mary Loomis. — Suffolk Superior Court. Action to recover for aid rendered by the Overseers of the Poor.

32. Collector of Taxes *vs.* Cleary. — Middlesex Superior Court. Action to recover taxes.

33. Collector of Taxes *vs.* Morgan. — Middlesex Superior Court. Action to recover taxes.

34. Giles *vs.* City of Somerville. — Middlesex Superior Court. Action to recover for personal injuries alleged to have been received on Broadway, April 27, 1898.

35. Ames *vs.* City of Somerville. — Middlesex Superior Court. Action to recover damages for lowering grade of Middlesex avenue.

36. Macomber *vs.* City of Somerville. — Middlesex Superior Court. Action to recover damages for injuries alleged to have been received on Broadway, November 6, 1898.

37. Carroll *vs.* City of Somerville. — Middlesex Superior Court. Action to recover damages for injuries alleged to have been received on Medford street, January 26, 1896.

38. Mahoney *vs.* City of Somerville. — Middlesex Superior Court. Action to recover damages for injuries alleged to have been received on Lowell street, November 20, 1897.

39. Ida M. Wiley *vs.* City of Somerville. — Middlesex Superior Court. Action to recover damages for injuries alleged to have been received on Flint street, April 16, 1896.

40. Henry O. Wiley *vs.* City of Somerville. — Middlesex Superior Court. Action to recover damages for injuries alleged to have been received on Flint street, April 16, 1896.

41. Petition by the Fitchburg Railroad Company before the County Commissioners for alterations of the Beacon street bridge. Several hearings were held, an agreement was given by the railroad to secure the city against all expense, and a decree satisfactory to the City Engineer has been made by the commissioners.

Respectfully submitted,

FRANK W. KAAN,

City Solicitor.

REPORT
OF THE
CITY CLERK.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1899.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 26, 1899.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE CITY CLERK,
January 25, 1899.

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL.

Gentlemen: — The following is respectfully submitted as the twenty-seventh annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1898: —

CASH.

The receipts and payments were as follows: —

RECEIPTS.

Balance from year 1897, being for dog license issued in December, 1897,			
1 male	\$	2.00	
Less city clerk's fee paid to the city treasurer in December, 1897			
		.20	
		\$	1.80
For dog licenses issued in 1898: —			
1,012 males at 2.00	\$	2,024.00	
125 females at 5.00		625.00	
11 spayed at \$2.00		22.00	
		\$	2,671.00
Recording mortgages, assignments, etc., 830 papers			
		\$499.50	
Certificates of marriage intentions, 567 at \$0.50			
		283.50	
Furnishing copies of records			
		30.75	
		\$	813.75
<i>Amounts carried forward</i>		\$	2,672.80

<i>Amounts brought forward</i> . . .	\$813.75	\$2,672.80
Licenses :—		
To collect junk, 37 at \$2.00 . . .	74.00	
For intelligence offices, 9 at \$2.00 . . .	18.00	
For billiard and pool tables and bowling alleys, 7 licenses, for 17 tables and 5 alleys, at \$2.00 . . .	44.00	
For recording and issuing liquor licenses, 22 at \$1.00 . . .	22.00	
For light lunch wagon stand, 1 . . .	2.00	
To private detectives, 3 at \$10.00 . . .	30.00	
To auctioneers, 20 at \$2.00 . . .	40.00	
To sell fireworks, 81 at \$1.00 . . .	81.00	
For amusements, 1 (tent show, 2 days) . . . \$60.00		
58 at \$1.00 . . . 58.00		
	—————	118.00
To street musicians, 39 persons at \$0.50	19.50	
To slaughter cattle, 3 at \$1.00 . . .	3.00	
	—————	1,265.25
Total receipts		<u>\$3,938.05</u>

PAYMENTS.

To Joseph O. Hayden, county treasurer, June 1 and December 1, receipts for dog licenses from December 1, 1897 to November 30, 1898, both inclusive :—

896 males at \$2.00	\$1,792.00	
108 females at \$5.00	540.00	
11 spayed at \$2.00	22.00	
	—————	\$2,354.00
Less city clerk's fees, 1,015 at \$0.20	203.00	
	—————	\$2,151.00
<i>Amount carried forward</i>		<u>\$2,151.00</u>

<i>Amount brought forward</i>		\$2,151.00
To John F. Cole, city treasurer, monthly :—		
City clerk's fees for issuing and recording dog licenses, 1,148 at \$0.20	\$ 229.60	
All the receipts above specified, except for dog licenses	1,265.25	
	<hr/>	1,494.85
Total payments		<hr/> <hr/> \$3,645.85

Balance January 1, 1899, being for dog licenses issued in De- cember :—		
117 males at \$2.00	\$234.00	
17 females at \$5.00	85.00	
	<hr/>	319.00
Less city clerk's fees paid to city treasurer, 134 at \$0.20	26.80	
	<hr/>	\$292.20
		<hr/> <hr/>

BIRTHS.

Number of births in Somerville in 1898 registered		1,519
Less than previous year		4
Males	803	
Females	716	
	<hr/>	1,519
Born of American parents	520	
Born of foreign parents	677	
Born of American father and foreign mother	160	
Born of foreign father and American mother	153	
	<hr/>	
<i>Numbers carried forward</i>	1,510	1,519

<i>Number brought forward</i>	1,510	1,519
Born of American father and mother of unknown na- tionality	1	
Born of American mother and father of unknown na- tionality	6	
Born of foreign mother and father of unknown na- tionality	1	
Born of parents of unknown nationality	1	
	<hr/>	1,519
Number of cases of twins		24

MARRIAGES.

Number of intention certificates issued in 1898		567
Less than previous year		49
Marriages registered		595
Less than previous year		51
Both parties American	278	
Both parties foreign	171	
American groom and foreign bride	82	
Foreign groom and American bride	64	
	<hr/>	595 couples
First marriage of	1,056	
Second marriage of	123	
Third marriage of	9	
Fourth marriage of	2	
	<hr/>	595 couples

DEATHS.

Number of deaths in Somerville in 1898		880
More than previous year		21

Males	442	
Females	438	
	<hr/>	880
Under 10 years of age	273	
Between 10 and 20 years of age	21	
Between 20 and 30 years of age	75	
Between 30 and 40 years of age	55	
Between 40 and 50 years of age	68	
Between 50 and 60 years of age	86	
Between 60 and 70 years of age	130	
Between 70 and 80 years of age	106	
Between 80 and 90 years of age	56	
Between 90 and 100 years of age	10	
	<hr/>	880
Age of oldest person deceased		94
Born in Somerville	247	
Born in other places in the United States	344	
Of foreign birth	283	
Birthplace unknown	6	
	<hr/>	880
Number of deaths in January	64	
“ “ February	65	
“ “ March	79	
“ “ April	75	
“ “ May	69	
“ “ June	64	
“ “ July	59	
“ “ August	112	
“ “ September	73	
“ “ October	54	
“ “ November	68	
“ “ December	98	
	<hr/>	880

The number of stillbirths recorded during the year was sixty-one.

The causes of death may be found in the report of the Board of Health.

ASSESSSED POLLS AND REGISTERED VOTERS.

MEN'S LISTS.

WARD.	PRECINCT.	As- sessed Polls May 1, 1898.	REGISTERED VOTERS.							
			Nov. 26, 1897.	Re- vised Lists of Aug. 30, 1898.	Ad- ded in Sept. and Oct. 1898.	Oct. 24, 1898.	Ad- ded in Nov. 1898.	Nov. 19, 1898.	Voted Nov. 8, 1898.	Voted Dec. 6, 1898.
Ward 1	Precinct 1	634	370	315	31	346	5	351	236	248
" 1	" 2	526	355	304	17	321	7	328	226	239
" 1	" 3	860	479	391	30	421	4	425	240	276
" 1	" 4	817	284	246	27	273	4	277	158	183
		2,837	1,488	1,256	105	1,361	20	1,381	860	946
Ward 2	Precinct 1	840	571	518	26	544	14	558	393	388
" 2	" 2	1,101	669	628	41	669	19	688	471	486
" 2	" 3	802	378	331	25	356	9	365	235	243
" 2	" 4	1,123	537	455	18	473	15	488	312	297
" 2	" 5	1,042	380	334	23	357	18	375	235	255
		4,908	2,535	2,266	133	2,399	75	2,474	1,646	1,669
Ward 3	Precinct 1	1,114	722	638	16	654	11	665	395	420
" 3	" 2	803	499	449	19	468	9	477	281	274
" 3	" 3	960	657	593	12	605	9	614	390	407
" 3	" 4	1,249	689	638	27	665	25	690	372	469
		4,126	2,567	2,318	74	2,392	54	2,446	1,438	1,570
Ward 4	Precinct 1	1,121	591	571	29	600	14	614	413	385
" 4	" 2	1,191	581	531	33	564	4	568	393	280
" 4	" 3	926	503	463	52	515	5	520	418	334
" 4	" 4	1,238	660	593	51	644	10	654	472	398
		4,476	2,335	2,158	165	2,323	33	2,356	1,696	1,397
City		16,347	8,925	7,998	477	8,475	182	8,657	5,640	5,582

WOMEN'S VOTING LISTS.

WARD.	PRECINCT.	Nov. 26, 1898.	Revised Lists of Aug. 30, 1898.	Added in Sept., Oct. and Nov., 1898.	Nov. 19, 1898.	Voted Dec. 6, 1898.
Ward 1	Precinct 1	27	21	. . .	21	. . .
" 1	" 2	9	8	. . .	8	. . .
" 1	" 3	32	26	. . .	26	. . .
" 1	" 4	1	. . .	. . .	. . .	. . .
		69	55	. . .	55	. . .
Ward 2	Precinct 1	48	45	3	48	7
" 2	" 2	91	84	. . .	84	13
" 2	" 3	3	3	. . .	3	. . .
" 2	" 4	11	9	. . .	9	. . .
" 2	" 5	6	6	. . .	6	1
		159	147	3	150	21
Ward 3	Precinct 1	39	29	. . .	29	2
" 3	" 2	34	28	2	30	1
" 3	" 3	63	51	1	52	1
" 3	" 4	47	41	. . .	41	3
		183	149	3	152	7
Ward 4	Precinct 1	71	65	-1	64	13
" 4	" 2	55	51	. . .	51	3
" 4	" 3	43	37	9	46	17
" 4	" 4	71	60	6	66	24
		240	213	14	227	57
City . . . . .	. . . . .	651	564	20	584	85

Herewith are presented copies of ordinances passed since the printing of the last annual reports.

GEORGE I. VINCENT,

City Clerk.

ORDINANCES.

CITY OF SOMERVILLE.

JANUARY 25, 1899.

The following ordinances have been adopted since the printing of the annual reports for the year 1897.

GEORGE I. VINCENT, *City Clerk.*

CITY OF SOMERVILLE.

No. 76.

AN ORDINANCE IN RELATION TO UNDERGROUND STREETS,
PASSAGEWAYS, OR SUBWAYS.

*Be it ordained by the City Council of the City of Somerville,
as follows : —*

Section 1. No person shall loiter in, or obstruct the free passage of another person through any public underground street, passageway or subway, or cut, injure, mar, deface, defile, or make any drawing on, the interior or exterior wall, or the ceiling, or the pathway or roadway thereof, or attach any handbill, advertisement, placard or drawing thereto, or accost or address another person therein with profane or obscene language.

Section 2. This ordinance shall take effect upon its passage.

Approved January 27, 1898.

No. 77.

AN ORDINANCE TO AMEND SECTION THREE OF CHAPTER
FOUR OF THE REVISED ORDINANCES OF 1891.

*Be it ordained by the City Council of the City of Somerville,
as follows : —*

Section 1. Section three of chapter four, entitled "Finance," of the Revised Ordinances of 1891, is hereby amended by striking out said section three, and substituting in place thereof the following : —

Section 1. The income received in the city of Somerville from the Water Works shall be applied as follows : — First, to

the payment of the expenses of maintenance and operation incurred by the Water Board of the city ; second, to the payment of the interest on all bonds, notes or scrip of the city, issued on account of the Water Works, and to the payment of said bonds, notes or scrip as they may mature ; third, to the payment of the assessment of the city to be paid to the treasurer of the Commonwealth as provided in chapter four hundred eighty-eight of the acts of the year eighteen hundred and ninety-five ; fourth, to the payment of the expenses of the extension of the Water Works ; fifth, and the balance, if any, as the City Council may determine ; provided, however, that there shall not be expended in any year, for any of said purposes, more than the amount appropriated by the City Council therefor.

Section 2. This ordinance shall take effect upon its passage.

Approved February 24, 1898.

No. 78.

AN ORDINANCE TO AMEND CHAPTER TEN OF THE REVISED
ORDINANCES OF 1891.

*Be it ordained by the City Council of the City of Somerville,
as follows : —*

Section 1. Section one of chapter ten of the Revised Ordinances of 1891 is hereby repealed, and the following section substituted in place thereof : Section 1. The city physician shall be a resident of Somerville and a graduate of a legally-incorporated medical school. He shall receive as full compensation for all services rendered by him such salary as the city council may determine.

Section 2. Section two of said chapter ten is hereby amended by inserting after the word "poor," in the third line, the words, "and the board of health."

Section 3. Section three of said chapter ten is hereby amended by striking out the words "mayor and aldermen," in said section, and substituting therefor the words "city council."

Section 4. This ordinance shall take effect upon its passage.

Approved March 25, 1898.

No. 79.

AN ORDINANCE IN RELATION TO THE PROJECTION OF COVINGS OVER PUBLIC WAYS AND SQUARES.

Be it ordained by the City Council of the City of Somerville, as follows :

Section 1. Section seventy-two of chapter nineteen of the Revised Ordinances of 1891 is hereby amended by adding the following thereto: The inspector may, however, grant licenses for the construction of covings to project not more than twenty inches beyond the line of a public way or square, and to be at least ten feet above the level of the same.

Section 2. This ordinance shall take effect upon its passage.

Approved December 27, 1898.

JURY LIST.

CITY OF SOMERVILLE.

March 1, 1899.

The accompanying jury list is published in compliance with the following provision of law :—

Acts of 1897, Chapter 515, Section 4.

The jury list in cities shall be published as a public document, with the address and occupation of each juror.

Attest :

GEORGE I. VINCENT, *City Clerk.*

JURY LIST
OF THE
CITY OF SOMERVILLE.

PREPARED BY THE REGISTRARS OF VOTERS, UNDER
CHAPTER 515 OF THE ACTS OF THE YEAR 1897,
JANUARY 31, 1899.

[Posted February 10, 1899, and accepted by the Board of Aldermen February
23, 1899.]

A

Abbott, Alonzo F., 8 Concord avenue, clerk.
Adams, Frank H., 46 Summer street, railroad.
Albee, John G., 101 Flint street, clerk.
Alden, Fred B., 44 Skehan street, driver.
Allen, Hiram, 230 Washington street, musician.
Allison, James W., 89 Mt. Vernon street, carpenter.
Almeder, William F., 167 Broadway, restaurant.
Anderson, Peter, 34 Joy street, teamster.
Andrews, John, 34 Albion street, agent.
Andrews, Matthew S., 63 Morrison street, tinsmith.
Angier, Lucius B., 77 Derby street, coal and wood.
Armstrong, George D., 15 Dane street, expressman.
Armstrong, Thomas W., 39 Partridge avenue, sawyer.
Armstrong, William, 17 Dane street, watchman.
Arthur, David, 54 Medford street, laborer.
Ashworth, John, 104 Cross street, mechanical draughtsman.
Attwood, J. Lorenzo, 18 Herbert street, bookkeeper.
Ayer, Fred C., 160 Highland avenue, lumber and wood.
Ayer, John F., 17 Walter street, lumber and wood.
Ayres, John W., 403 Highland avenue, journalist.

B

- Babb, Charles D., 193 School street, real estate.
Babb, Nathaniel F., 193 School street, real estate, etc.
Babbitt, Artemas B., 110 Perkins street, machinist.
Bacon, Oliver, 19 Pembroke street, clerk.
Bailey, Walter C., 72 Mt. Vernon street, engraver.
Baker, Roger H., 9 Bedford street, cooper.
Baker, Roswell F., 26 Hudson street, salesman.
Baldwin, Arthur C., 29 Albion street, clerk.
Bancroft, Edward A., 31 School street, clerk.
Barber, William L., 36 Marshall street, clerk.
Barker, Franklin, 22 Pinckney street, conductor.
Barker, Herman, 433 Broadway, manufacturer.
Barker, William H., 367 Summer street, manufacturer.
Barnard, Thomas L., 11 Grant street, fish.
Bartlett, George E., 5 North Union street, railroad.
Beal, Albert H., 96 Wallace street, barber.
Bean, Gerard D., 166 Lowell street, bookkeeper.
Beckley, Henry F., 83 Morrison street, salesman.
Belcher, Horace A., 12 Webster avenue, produce.
Belding, Oscar H., 62 Hudson street, carpenter.
Bennett, Dana W., 41 Putnam street, agent.
Bent, Charles E., rear 9 Marion street, carpenter.
Bent, Thomas A., 120 Summer street, carpenter.
Berry, Andrew C., 6 Centre street, engraver.
Berry, Charles M., 14 Miller street, provisions.
Berton, John F., 332 Elm street, painter.
Bertwell, Henry P., 20 Cameron avenue, clerk.
Bickford, Frank W., 76 Curtis street, carpenter and builder.
Binney, Henry M., 61 Prescott street, painter.
Binney, Martin, 9 Linden place, agent.
Black, Peter F., 14 Atherton street, agent.
Blake, Charles M., 13 Preston street, newsdealer.
Blake, G. Stanley, rear 26 Park street, railroad.
Blaskovec, Frank, 240 Columbia street, cabinetmaker.
Blevins, Joseph J., 26 Stone avenue, roofer.
Bossey, Charles W., 22 Ashland street, salesman.
Bowen, Cornelius, 128 Linwood street, safe and machine mover.
Bowers, Harrison G. O., 233 1-2 Elm street, no occupation.

- Bowie, David, 11 Belmont street, machinist.
Bowker, Frank P., 31 Avon street, clerk.
Bowman, Henry F., 10 Winter hill circle, lithographer.
Bowman, Sumner E., 26 Dover street, mason.
Brackett, Walter S., 16 Greene street, travelling salesman.
Bradley, Daniel, 19 Concord avenue, barrels.
Bradley, Daniel A., 67 Beacon street, pianos.
Bradley, Daniel H., 19 Concord avenue, student.
Bradley, Dennis E., 303 Washington street, ornamenteer.
Bradshaw, Charles H., 7 Westwood road, real estate.
Bradshaw, J. Edwin, 16 St. James avenue, clerk.
Brastow, George K., 162 Summer street, clerk.
Brennan, Stephen, 70 Oxford street, mason and builder.
Briggs, J. Albion, 59 Vinal avenue, real estate.
Brigham, Charles A., 3 Dell street, salesman.
Brine, Lawrence F., 38 Columbus avenue, music.
Broadhead, William H., 61 Summer street, electric supplies.
Brophy, Daniel, 17 Fremont avenue, travelling salesman.
Brown, Charles E., 36 Albion street, carpenter.
Brown, Frank A., 12 Otis street, hairdresser.
Brown, John H., 311 Washington street, painter.
Brown, Lyman H., 284 Somerville avenue, livery stable.
Bryant, John E., 24 Grant street, undertaker.
Bryant, Thomas H., 6 Edmands street, receiving clerk.
Buckley, Daniel J., 215 Norfolk street, laborer.
Buckley, John E., 18 Hancock street, lineman.
Bucknam, Davis P., 12 Vine street, mason.
Bucknam, William E., 341 Beacon street, mason.
Bullard, Walter H., 22 Stickney avenue, grocer.
Bunten, Frederick R., 32 Cedar street, feather duster manufacturer.
Burckes, Arthur L., 18 Sargent avenue, clerk.
Burke, Walter W., 337 Washington street, hatter.
Burns, Robert, 21 Lincoln street, milk inspector.
Burns, Samuel A., 77 Pearl street, milk driver.
Burrows, George H., 25 North Union street, machinist.
Burton, Edward H., 6 Rogers avenue, provisions.
Butler, James H., 40 Gilman street, school furniture.
Butler, William, 106 A Albion street, printer.
Buttimer, Maurice, 351 Lowell street, contractor.

C

- Cahill, Cornelius J., 18 Bow street, lather.
Callow, John R., 42 Concord avenue, porter.
Caples, Philip, 42 Craigie street, butter, etc.
Card, Frederick L., 243 Pearl street, provisions.
Carleton, Lewis P., 341 Summer street, salesman.
Carpenter, Albert Q., 141 Highland avenue, tinsmith.
Carpenter, Lewis J., 3 Centre street, metal spinner.
Carpenter, Reuben, 10 Fountain avenue, engraver.
Carr, Albert E., 89 Oxford street, clerk American Express Co.
Carr, Eugene P., 18 Benton road, salesman.
Carter, Lorenzo D., 60 Central street, clerk.
Cate, Nathan E., 28 Everett avenue, treasurer.
Chamberlain, Russell T., 7 Winter street, real estate.
Chapin, Hiram O., 44 Dover street, commission merchant.
Chase, Charles D., 18 Ivaloo street, engineer.
Chase, Isaac F., 10 Thorndike street, salesman.
Chase, Washington I., 85 Vine street, distiller.
Chickering, William H., 15 Evergreen avenue, clerk.
Clark, Cyrus D., 30 Everett avenue, sexton.
Clark, Isaac H., 49 Brastow avenue, mechanical engineer.
Clark, J. Abbott, 45 Greenville street, advertising agent.
Clark, S. Adams, 11 Clark street, no occupation.
Clayton, Frederick I., 131 Lowell street, tailor.
Coan, Francis E., 156 Pearl street, stair builder.
Coburn, Fred L., 47 Mt. Vernon street, printer and stationer.
Coffin, Edward B., 184 Lowell street, real estate and insurance.
Coffin, Winslow W., 186 Broadway, real estate and insurance.
Colby, Luther, 50 Francesca avenue, janitor.
Collins, Stephen J., 22 Putnam street, upholsterer.
Comee, Charles, 38 Irving street, printing materials.
Comee, Edgar F., 38 Irving street, travelling salesman.
Conant, George H., 8 Park avenue, no occupation.
Concannon, John H., 135 Linwood street, peddler.
Condit, Fred H., 255 Medford street, musician.
Condit, Sears, 255 Medford street, hatter.
Cook, Franklin A., 468 Somerville avenue, carriage trimmer.
Cook, Levi F., 9 Thorpe place, salesman.
Cooper, Francis P., 188 Broadway, engraver.

Copithorne, John, 81 School street, carpenter, F. R. R.
Cosgrove, Charles M., 17 Electric avenue, clerk.
Coughlin, William J., 141 Medford street, upholsterer.
Cox, Edward, 36 Central street, real estate.
Craig, John W., 97 Washington street, blacksmith.
Crawford, J. Arthur, 19 Eastman place, carpenter.
Cremen, John W., 69 Oxford street, clerk.
Crimmings, Timothy F., 3 Maple street, teamster and contractor.
Cronin, Robert E., 8 Clyde street, teamster.
Crosby, Warren A., 32 Rush street, fish.
Cross, John T., 65 Oxford street, salesman.
Cullin, Edwin, 222 Broadway, wholesale provisions.
Cummings, George W., 43 Wallace street, driver.
Curran, Reuben L., 29 Wesley street, foreman cabinetmaker.
Currier, James H., 9 Mossland street, manager.
Currier, Samuel E., 9 Howe street, real estate and insurance.
Cushing, Edwin F., 72 Central street, navy yard.
Cushing, William E., 8 Dell street, clerk in post office, Boston.
Cutler, Frank E., 70 Pearl street, painter.
Cutter, Fitch H., 8 Lincoln street, motorman, street railway.
Cutter, George, 379 Summer street, no occupation.

D

Dadmun, Henry H., 48 Oxford street, salesman.
Dalton, James H., 1100 Broadway, manager.
Daniels, Edward S., 50 Spring street, piano tuner.
Daniels, Harry F., 70 Munroe street, clerk.
Daniels, Joseph, 93 Concord avenue, carpenter.
Daniels, Theodore P., 137 Pearl street, showcase maker.
Darling, Charles S., 20 Gorham street, whip manufacturer.
Davenport, Foster L., 19 Charnwood road, shipper.
David, James B., 78 Belmont street, no occupation.
Davis, Albert M., 16 Chauncey avenue, teamster.
Davis, Charles S., 94 Pearl street, electrician.
Davis, George M., 20 Arthur street, mason and builder.
Davis, Levi F. S., 111 Pearl street, junk.
Davis, Thomas L., 50 Mt. Vernon street, burlaps, etc.
Dawes, Henry L., 8 Ashland street, confectioner.
Dawson, Howard, 67 Albion street, clerk.

- Dearborn, Luther G., 169 Sycamore street, coffee.
De Coster, Verin, 43 Lowell street, salesman.
Delano, John G., 72 Florence street, clerk.
Delano, Thomas I., Jr., 170 Central street, salesman.
Dervan, William B., 8 Spring street, clerk.
Desmond, Daniel W., 1 Montrose street, real estate and mortgages
Dewire, Michael H., 399 Washington street, confectionery.
Dickerman, Edward M., 39 Florence street, foreman.
Dimick, Charles W., 122 Line street, manager.
Dodd, George H., 54 Marshall street, mechanic.
Doe, Freeland A., 39 Temple street, cabinetmaker.
Doten, Benjamin F., 67 Central street, printer.
Doten, Herbert W., 115 Jenny Lind avenue, salesman.
Downing, John F., 14 Park street, carpenter.
Drake, James, 45 Berkeley street, carpenter.
Dresser, George H., 193 School street, superintendent.
Drinkwater, Frank M., 872 Broadway, clerk.
Drouet, Ernest Charles, 73 Columbus avenue, insurance.
Dudley, Clifford G., 10 Tower street, no occupation.
Dudley, Clifton O., 6 Tower street, no occupation.
Duhig, John M., 282 Summer street, printer.
Dunham, Herbert M., 292 Medford street, reporter.
Dunham, Marshall W., 10 Stickney avenue, carriages.
Dunklee, Daniel D., 9 Oakland avenue, stoves and furnaces.
Dusseault, John H., 42 Sargent avenue, sealer of weights and
measures.
Dustin, George E., 7 Pearl street, leather dealer.
Dustin, Harry N., 10 Church street, clerk.
Dwyer, Edward, 159 Somerville avenue, marble worker.
Dyer, Henry H., 32 Elm street, cigars.
Dyer, Josiah T., 156 School street, men's furnishings.

E

- Earle, Israel C., 87 Irving street, salesman.
Eaton, John F., 400 Highland avenue, architect.
Eaton, John M., 58 Springfield street, no occupation.
Edgett, Reuben, 347 Elm street, carpenter.
Edmands, John B., 11 Robinson street, stoneware manufacturer.
Egerton, Wales L., 61 Beach street, no occupation.
Elkins, John F., 142 Medford street, contractor.

Elliot, Charles J., 59 Oxford street, engineer.
Elliott, George E., 103 Jenny Lind avenue, grocer.
Emerson, William J., 104 Broadway, boots and shoes.
Emery, Allen A., 51 Oliver street, butter.
Enslin, Irving J., 62 Cross street, stenographer.
Esty, Austin S., 203 School street, clerk.
Evans, Francis W., 32 Prospect street, teamster.
Evans, Henry, 15 Adrian street, teamster.

F

Fales, Wyman E., 76 Irving street, salesman.
Falvey, Richard, 15 Rush street, contractor.
Farnham, Rufus H., 236 Holland street, motorman.
Farrell, Patrick S., 31 Linwood street, polisher.
Fay, Francis H., rear 101 Linwood street, marble cutter.
Fellows, John H., 8 Sartwell avenue, accountant.
Fenelon, J. Robert, 21 School street, real estate.
Field, Orton D., 98 Jaques street, salesman.
Fisher, Alphonso, 152 Pearl street, painter.
Fisher, Arthur V., 62 Evergreen avenue, agent.
Fisher, Emery B., 110 Prospect street, clerk, P. O., Boston.
Fisher, Henry H., 139 Lowell street, salesman.
Fisher, John, 26 Hancock street, printer.
Fisk, Elsworth, 44 Heath street, clerk.
Fisk, Mark, 44 Heath street, travelling salesman.
Fitch, George W., 12 Lincoln street, job printer.
Fitz, George H., 45 Franklin street, grain.
Flagg, Charles A., 24 Gibbens street, salesman.
Flaherty, James P., 12 Charles street, junk.
Flitner, George J., 1 Clifton street, wool grader.
Flynn, Dennis F., 67 Dane street, upholsterer.
Flynn, William H., 67 Dane street, real estate and insurance.
Foote, Edward H., 138 Sycamore street, pickle manufacturer.
Ford, Jeremiah D. M., 13 Sherman street, student.
Foss, William H., 38 Harvard street, designer.
Foster, Elmer E., 18 1-2 Franklin street, fireman.
Foster, George W., 7 Evergreen avenue, insurance.
Foster, Henry, 23 Park street, bookbinder.
Foster, Jacob, 10 Mossland street, carpenter.

Fox, John, 283 Somerville avenue, laborer.
 Francis, Weston O., 16 Webster street, carpenter.
 Friend, Edward, 5 Cameron avenue, salesman.
 Friend, Frederick W., 22 Hancock street, plasterer.
 Frost, George W., 38 Laurel street, clerk.
 Frye, Charles H., 43 Sargent avenue, machinist.
 Fulton, David, 4 Spring court, Calendrer Middlesex Bleachery.

G

Gage, Burt O., 38 Dartmouth street, machinist.
 Gage, Moses H., 9 Montgomery avenue, clerk.
 Gage, Walter C., 43 Robinson street, foreman.
 Gale, Charles, 10 Brastow avenue, cabinetmaker.
 Gale, John S., 6 Oliver street, machinist.
 Galletly, Henry, 7 Franklin avenue, cordage manufacturer.
 Gallishaw, Henry T., 74 Bonair street, clerk.
 Gardner, Gerald A., 8 Hudson street, insurance.
 Garrity, Martin, Jr., 206 Norfolk street, plumber.
 Gibby, Robert H., Jr., 26 Mondamin court, coppersmith.
 Gifford, Frederick K., 353 Beacon street, salesman.
 Gifford, Herbert C., 54 Preston street, iron.
 Gilberth, Charles A., 58 Concord avenue, tea.
 Giles, Charles E., 24 Webster street, milk.
 Gill, Martin, 22 Bonair street, teamster.
 Gilley, Rodney O., 11 Walter street, steward.
 Gilman, John W., 47 Chester street, salesman.
 Glazier, Elmer L., 29 Chandler street, cabinetmaker.
 Gleason, Walter H., 13 Dartmouth street, real estate.
 Goddard, Edward A., Jr., 55 Irving street, clerk.
 Good, Thomas, 29 Crocker street, salesman.
 Goodhue, Alfred N., 205 Highland avenue, conductor.
 Gordon, George A., 54 Belmont street, agent.
 Gordon, Harris F., 7 Dell street, foreman.
 Gordon, Huntlie, 33 Kingston street, insurance.
 Graham, Robert C., 29 Greene street, potato dealer.
 Grant, Walter D., 35 Florence street, clerk.
 Gray, Amasa, 71 Wallace street, carpenter.
 Green, Oscar F., 103 Summer street, stair builder.
 Greene, George F., 28 Lamson court, machinist.

Greenough, John L., 19 Vernon street, cabinetmaker.
 Griffin, Augustus P., 22 Richdale avenue, salesman.
 Griffin, Daniel J., 5 Summer street, travelling salesman.
 Grove, William L., 63 Avon street, bookkeeper.
 Grover, Nelson H., 26 Oxford street, clerk.
 Guild, Edgar A., 28 Webster avenue, clerk.
 Guild, Julius J., 325 Washington street, provisions.
 Gurnham, Thomas, 36 Hancock street, periodicals.

H

Hager, Arvine, 19 Edmands street, milk dealer.
 Hale, C. Warner, 90 Central street, tailor.
 Haley, Dennis, 27 Belmont street, machinist.
 Hall, Albert A., 64 Willow avenue, accountant.
 Hall, Horace E., 25 Highland avenue, horse dealer.
 Hall, William Franklin, 345 Broadway, accountant.
 Hall, Winfield W., 32 Thorndike street, furniture, stoves, etc.
 Hanson, Harvey R., 73 Jaques street, electrician.
 Hanson, William J., 353 Somerville avenue, plumber.
 Harding, Walter R., 22 Prescott street, carpenter.
 Harlow, George H., 7 Adams street, salesman.
 Harney, William T., 169 Linwood street, teamster.
 Hartshorn, Frank S., 96 Glen street, clerk.
 Harvey, Henry E., 17 Wellington avenue, teamster.
 Harwood, John, 31 Avon street, gunsmith.
 Haskell, Albert L., 422 Somerville avenue, printer.
 Haskell, Otis S. M., 279 Summer street, confectionery.
 Hatch, Frederick A., 77 Jaques street, teamster.
 Hathaway, Henry C., 12 Pembroke street, painter.
 Hayes, William T., 252 Medford street, clerk.
 Hayward, Wales A., 21 Cherry street, no occupation.
 Heintz, George, 36 Hudson street, undertaker.
 Higgens, John, 38 Linwood street, dry goods.
 Higgins, Byron E., 357 Medford street, mason.
 Hight, Henry O., 15 Highland avenue, clerk.
 Hill, John E., 49 Cherry street, salesman.
 Hinckley, William V. T., 10 Monmouth street, insurance.
 Hoit, Alonzo W., 275 Highland avenue, produce dealer.
 Holden, George W., 97 Curtis street, farmer.

Holden, John, 76 Prospect street, produce.
 Holmes, Charles A., 263 Beacon street, stoves and plumbing.
 Holt, Albert, 7 Kenwood street, produce.
 Holt, Arthur C., 197 Washington street, architect.
 Holt, Edward M., 32 Springfield street, machinist.
 Holt, Samuel W., 197 Washington street, no occupation.
 Hopkins, Charles O., 212 Broadway, bookkeeper.
 Hopkins, Charles W., 23 Boston street, engraver.
 Horton, Charles H., 101 School street, clerk.
 Horton, David P., 36 Everett avenue, trunks.
 Horton, William A., 402 Highland avenue, artist.
 Howard, Chester M., 353 Highland avenue, clerk.
 Howard, John C., 157 Highland avenue, druggist.
 Howe, Frederick F., 40 Kidder avenue, shipper.
 Hulsman, Chester R., 48 Florence street, collector.
 Hunt, Cassius, 218 School street, fish.
 Hunter, William H., 53 Springfield street, glass engraver.
 Hutchins, George E., 9 Oliver street, mason.
 Hutchinson, Llewellyn W., 95 Jenny Lind avenue, carpenter.

I

Ingalls, Oliver W., 11 Sycamore street, no occupation.
 Ingalls, Oscar G., 12 Munroe street, carpenter.
 Irish, Thaddeus P., 3 Dartmouth street, bookkeeper.

J

Jansson, Augustus L., 102 Wallace street, travelling salesman.
 Jerauld, Horace D., 14 Chester avenue, no occupation.
 Jones, Enoch B., 13 Hall street, painter.
 Jones, Thomas F., 34 Line street, conductor.
 Jordan, Edward E., 102 School street, draughtsman.
 Joy, Alden B., 20 Belmont street, carpenter.
 Joyce, Sanford, 76 Boston street, clerk.
 Judge, Daniel, 20 Rossmore street, laborer.
 Junkins, Leander D., 14 Austin street, machinist.

K

Keane, John A., 109 School street, piano tuner.
 Kearney, Edward S., 6 Charlestown street, clerk.

Keefe, William M., 52 Cedar street, milk.
Kelley, Timothy J., 17 Merriam street, clerk.
Kelley, William, 15 Leland street, janitor.
Kelly, Charles A., 48A Porter street, contractor.
Kendall, Henry A., 55 Oxford street, clerk.
Kendall, Isaac B., 338 Broadway, insurance agent.
Keniston, Charles E., 17 Park street, machinist.
Kennedy, Clifton A., 21 Thorndike street, street railway conductor.
Kenney, James, 4 Concord avenue, carpenter.
Kenniff, Daniel J., 29 Jenny Lind avenue, reporter.
Kerrigan, James, Jr., 351 Washington street, teamster.
Kidder, Andrew M., 10 Summit avenue, no occupation.
Kincaid, John E., 74 Rush street, traveling salesman.
King, William L., 16 Kenwood street, bookkeeper.
Knowles, Abbott L., 44 Webster street, bookkeeper.
Knowles, Benjamin H., 15 Parker street, hatter.
Knowles, Charles A., 68 Mt. Pleasant court, clerk.
Knowles, Thomas, 27 Tyler street, foreman.
Knowles, Zoeth R., 119 Walnut street, shipper.

L

Lacount, Eugene D., 34 Day street, bedding.
Lacy, Patrick, 63 Cherry street, mason.
Lawrence, Bernard W., 289 Highland avenue, produce.
Lawson, George W., 2 Lawson terrace, carpenter.
Lawson, Munroe C., 41 Bow street, carpenter.
Leavitt, Edwin, 13 Pinckney street, insurance.
Leavitt, Frank W., 468 Somerville avenue, carriage manufacturer, etc.
Leavitt, George W., Jr., 18 Veazie street, clerk.
LeCain, Joseph J., 384 A Highland avenue, real estate.
Leighton, Wilson E., 69 Florence street, conductor.
Leman, Francis H., 50 Morrison street, artist.
Leonard, Eugene C., 86 Avon street, ladies' tailor.
Libbey, Leonard M., 10 Elmwood street, variety store.
Libby, George H., 10 Ashland street, upholsterer.
Lind, John, 38 Clark street, marble worker.
Little, John K., 93 Hudson street, bookkeeper.
Littlefield, Samuel T., 321 Broadway, no occupation.
Ljungqvist, Nils, 27 Everett avenue, brass finisher.

Locke, Warren E., 360 Elm street, real estate.
Longfellow, William F., 44 Pearl street, teamster.
Lorentzen, Henry, 18 Waldo street, lock expert.
Lounsbury, George H., 46 Houghton street, bookkeeper.
Lovering, Everett L., 86 Myrtle street, music teacher.
Lovering, George H., 18 Chauncey avenue, grocer.
Lovering, Henry P., 11 Shawmut street, mason.
Lovering, Hiram A., 168 Broadway, merchant.
Lovering, Joseph E. B., 86 Myrtle street, druggist.
Lowell, Charles W., 45 Kidder avenue, commission merchant.
Lowell, Frank M., 42 Aldrich street, grocer.
Lowell, George E., 46 Gilman street, livery stable.
Lund, Harrington C., 16 Austin street, clerk.
Lunt, George H., 21 Church street, fireman.
Lunt, Samuel, Jr., 26 Tufts street, salesman.
Lynch, James B., 571 Somerville avenue, boot and shoe maker.

M

Macdonald, John W., 3 Boston street, clerk.
MacNeil, John, 60 Winslow avenue, carriage builder.
Makechnie, Ernst H., 238 Elm street, teacher of violin.
Mann, Alfred E., 75 Washington street, undertaker.
Manning, John F., 152 Medford street, teamster.
Marshall, John A., 97 Oxford street, salesman.
Mason, Joseph B., 50 Boston street, nurse.
Mayhew, Edgar T., 14 Oakland avenue, assistant city assessor.
Mayhew, Josiah B., 2 Thurston street, carriage woodwork.
Maynard, Everett A., 22 Forster street, baker.
Maynard, Lambert M., 90 Highland avenue, no occupation.
Mayo, Timothy L., 108 Highland avenue, ship chandler.
McAdams, Daniel F., 100 Jenny Lind avenue, plumber.
McAllister, William H., 23 Wallace street, brush maker.
McAvoy, Henry, 117 Somerville avenue, hacks to let.
McCarty, John, 23 Maple street, charcoal.
McDonald, William M., 56 Cedar street, wholesale beef.
McGinty, William H., 11 Hawkins street, architect.
McKeever, Samuel, 74 Belmont street, captain U. S. Army.
McKenna, David W., 7 Chestnut street, peddler.
McKenna, George F., 292 Lowell street, undertaker.

McLaughlin, Amos B., 27 Summit avenue, trader.
 McManus, Patrick, 93 Prospect street, motorman.
 Medina, John, 1167 Broadway, merchant.
 Merrifield, John A., 480 Somerville avenue, stove dealer.
 Merrifield, Otis E., Jr., 246 Summer street, bookkeeper.
 Merrill, David M., 254 Broadway, collector.
 Merrill, Ezra T., 90 Curtis street, contractor.
 Miles, Charles H., 37 Sewall street, cigar manufacturer.
 Milmore, George W., 2 Rogers avenue, broker.
 Mink, Louis, 85 Elm street, no occupation.
 Moore, George, 45 Dane street, carpenter.
 Moore, Joseph W., 79 Newton street, iceman.
 Morrison, Bert W., 22 Durham street, blacksmith.
 Muldoon, Thomas F., 208 Somerville avenue, blacksmith.
 Munroe, William B., 1 Lincoln street, clerk.
 Murphy, Stephen F., 372 Elm street, buyer.

N

Nason, Charles C., 21 Wigglesworth street, carpenter.
 Naughton, Thomas H., 32 Dane avenue, plumber.
 Nealley, Edwin F., 109 Glen street, salesman.
 Newcomb, Everett D., 28 Webster avenue, boots and shoes.
 Nickerson, John D., 5 Wellington avenue, clerk.
 Nickles, James W., 14 William street, salesman.
 Niles, James H., 4 Fairlee street, meats.
 Nolan, John A., 26 Prescott street, glass blower.
 Norcross, James E., 5 Sargent avenue, clerk.
 Norwood, Frank B., 240 School street, builder.
 Nye, Thomas V. B., 51 Cedar street, salesman.

O

O'Malley, Patrick J., 21 Dane avenue, barrel dealer.
 O'Neil, Bernard, 373 Washington street, peddler.
 Onthank, Charles H., 47 Munroe street, provisions.
 Osborne, Arthur D., 59 Columbus avenue, clerk.

P

Packard, Frank E., 93 Mt. Vernon street, conductor.
 Page, George Amos, 21 Webster avenue, plumber.

Paine, Robert S., 382 Elm street, bookkeeper.
Palmer, Edwin F., 261 A Broadway, painter.
Parker, William S., 32 Crescent street, upholsterer.
Parsons, Charles F., 16 Park street, clerk.
Peake, Benjamin W., 62 Central street, clerk.
Peck, Henry A., rear 41 Pearl street, printer.
Peckham, George W., 10 Pitman street, real estate.
Peirce, Abner F., 26 Bartlett street, salesman.
Peirce, Cyrus H., 75 Marshall street, no occupation.
Pendleton, Martin V. B., 63 Concord avenue, carpenter.
Pennock, Samuel M., 1 Stickney avenue, clerk.
Perham, Edwin R., 22 Marshall street, express.
Perkins, Francis C., 81 Pearl street, salesman.
Perkins, G. Henry, 16 Arthur street, insurance.
Perry, Irving S., 16 Pleasant avenue, broker.
Perry, Oliver H., 373 Elm street, real estate.
Philbrick, Charles S., 50 Morrison street, milk inspector.
Phillips, Bernard C., 8 Charlestown street, glass cutter.
Pillsbury, Luther B., 130 Walnut street, real estate.
Plaisted, Arthur I., 17 Franklin street, electrician.
Plaisted, Harry F., 17 Franklin street, salesman.
Pond, George W., 91 Bay state avenue, salesman.
Porter, Frank E., 99 Jenny Lind avenue, bookkeeper.
Pote, Othniel M., 23 Howe street, foreman.
Pratt, Edgar J., 10 Park street, tin plate worker.
Preston, Henry, 87 Franklin street, laborer.
Prichard, Charles E., 145 Walnut street, salesman.
Prichard, George W., 2 Bean court, teamster.
Prime, George W., 78 Partridge avenue, painter.
Puffer, David, Jr., 24 Hall avenue, produce.
Pugh, Samuel, 269 Summer street, clerk.
Pushee, John C., 10 Harvard place, brush manufacturer.
Pushee, Leslie D., 10 Harvard place, clerk.

R

Ramsdell, Charles H., 53 Tufts street, real estate.
Rand, George T., 336 Highland avenue, bookbinder.
Rawson, James, 24 Marshall street, house painter.
Raymond, Marcus M., 37 Jaques street, no occupation.

Read, Joseph, 21 Maple street, laborer.
 Reardon, Thomas F., 34 Rossmore street, barrels.
 Reed, Cyrus A., 14 Farragut avenue, upholsterer.
 Rice, Israel P., 15 Chandler street, carpenter.
 Rich, Isaac L., 50 Rush street, builder.
 Rich, Samuel B., 48 Berkeley street, fish.
 Rich, Sewall M., 381 Medford street, agent.
 Richards, Samuel T., 127 Summer street, bookkeeper.
 Richardson, Benjamin H., 102 Curtis street, clerk.
 Richardson, G. Herbert, 56 Franklin street, clerk.
 Richardson, Homer L., 88 Albion street, compositor.
 Riddell, Henry G., 104 Pearl street, clerk.
 Rideout, Henry N. W., 7 Howe street, clerk.
 Ridler, Parker, 37 Ames street, salesman.
 Ring, Frank W., 12 Wheatland street, driver.
 Rinn, Daniel H., 17 Wesley park, victualler.
 Rivinius, Frederick W., 642 A Somerville avenue, inspector.
 Robie, Albert E., 60 Vernon street, clerk.
 Robinson, Charles T., 68 Park street, no occupation.
 Robinson, Francis H., 36 Beach street, clerk.
 Robinson, William F. S., 84 Pearl street, artist.
 Robinson, William L., 86 Pearl street, no occupation.
 Rogers, Frederick R., 13 Dickinson street, driver.
 Rolfe, Frank A., 30 Dover street, dry goods.
 Ross, William M., 22 Fanning avenue, grainer.
 Rowe, Abram F., 47 Stone avenue, no occupation.
 Russell, Arthur J., 59 Vine street, printer.
 Russell, Eugene L., 1196 Broadway, clerk.
 Ryan, Michael E., 18 Murdock street, shipper.

S

Saben, Edward E., 110 Pearl street, insurance.
 Sallaway, George H., 63 Putnam street, provisions.
 Sanborn, Charles H., 223 School street, steam heating.
 Sanborn, William A., 11 Oakland avenue, brick manufacturer.
 Sanborn, William F., 17 Benedict street, cigars.
 Sargent, Thomas T. M., 67 Myrtle street, architect.
 Savage, Peter J., 10 Dane avenue, machinist.
 Sawyer, Edward K., 32 Main street, clerk.

- Schepmoes, Joseph S., 8 Tennyson street, printer.
Schrafft, William E., 49 Belmont street, candy.
Schroeder, John M., 65 Cedar street, no occupation.
Sears, Eben, 25 Dartmouth street, boiler inspector.
Shattuck, Elwin H., 75 Harris street, metal spinner.
Shaw, William H., 92 Central street, clerk.
Sheeran, John J., 17 Merriam street, grocer.
Sibley, Alfred M., 42 Oxford street, mason.
Sibley, Elton S., 42 Oxford street, metal engraver.
Skelton, Daniel J., 10 Burnside avenue, carpenter.
Smith, Albert E., 11 Church street, cooper.
Smith, William, 13 Smith avenue, cabinetmaker.
Smith, William H., 79 Irving street, printer.
Snow, Elwin T., 52 A Bonair street, edge tool maker.
Snow, John C. H., 60 Mt. Vernon street, carpenter and builder.
Snow, Walter H., 42 Derby street, groceries and provisions.
Snow, William A., 17 Francesca avenue, ornamental iron.
Snowman, Albert E., 22 Park street, shipper.
Solomon, William H., 12 Berkeley street, real estate.
Southworth, Edwin W., 13 Webster street, bookkeeper.
Spaulding, Daniel B., 8 A Hancock street, no occupation.
Spellman, Thomas, 11 Ward street, grease collector.
Spencer, George, 39 Houghton street, cabinetmaker.
Spike, Daniel R., 25 Marshall street, janitor.
Sprague, Walter A., 42 Prospect street, telegrapher.
Stacey, George W., 14 Albion street, clerk.
Stackpole, J. Frank, 238 Broadway, restaurant.
Staniford, John W., 81 Oxford street, glassware.
Staples, Mendall G., 42 Prospect street, teamster.
Starbird, George M., 102 Pearl street, carpenter.
Stearns, Phineas, 340 Elm street, no occupation.
Steele, Danforth S., 8 Leslie place, foreman.
Stevens, John A., 30 Church street, painter.
Stevens, John E., 7 Linden avenue, painter.
Stevens, Oliver A., 46 Beacon street, engineer, Globe building.
Stillings, Rufus, 23 Arthur street, printer.
Stockbridge, Charles N., 11 Hathorn street, bookkeeper.
Stockbridge, Lewis, 16 Flint street, grocer.
Stodder, George F., 4 Cross street, fish dealer.
Stuart, Lewis R., 21 Delaware street, dry goods.

Studley, Stillman S., 130 Sycamore street, clerk.
 Sturtevant, Richard H., 31 Walnut street, beef dealer.
 Symonds, Irving F., 14 Greene street, no occupation.

T

Tarbox, French O. J., 21 1-2 Summer street, steamfitter.
 Tarbox, Horace E., 30 Austin street, mason.
 Teele, F. Warren, 37 Electric avenue, electrical engineer.
 Teele, Samuel F., 73 Curtis street, farmer.
 Tewksbury, J. Gardner, 34 Pinckney street, paper dealer.
 Thompson, Charles W., 27 Lake street, clerk.
 Thompson, Joseph M., 66 Marshall street, collector.
 Thompson, William H. J., 55 Concord avenue, carpenter.
 Thomson, Emerson, 33 Pinckney street, clerk.
 Thurgood, Augustus, 42 Hudson street, salesman.
 Timson, L. Edgar, 10 Lincoln street, clerk.
 Titus, Franklin A., 34 Flint street, plumber.
 Tobin, Thomas J., 134 Tremont street, clerk.
 Trefren, Aura S., 2 Brooks street, carpenter.
 Tribble, Hiram, 50 Chandler street, salesman.
 Tucker, D. Wallis, 241 Elm street, shipper.
 Tuckett, Charles R., 12 A Kensington avenue, architect.

U

Underhill, Charles L., 157 Central street, carriage repairing, etc.
 Underhill, Jesse J., 48 Pinckney street, coal and wood.
 Upton, Henry J., 45 Florence street, rubber worker.

V

Valentine, Moses D., 304 Washington street, real estate.
 Van Buskirk, Charles, 20 Prescott street, frame worker.
 Veazie, William, 135 Walnut street, no occupation.
 Vincent, Francis X., 95 B Prospect street, printer.
 Vivian, James H., 210 Medford street, salesman.
 Vreeland, Edward B., 121 Central street, wood, coal, hay, etc.

W

Walker, Granville A., 9 Loring street, painter.
 Walker, Irason B., 10 Union square, carpenter.

- Walker, Thomas G., 5 Dell street, foreman, N. P. & P. Co.
Ward, Benjamin A., 12 Mason avenue, tailor.
Washburn, Frank D., 18 Park street, student.
Watson, Frank L., 21 Aldersey street, paints and oils.
Watson, George B., 204 Somerville avenue, foreman, tinshop.
Watters, James, 41 Mystic avenue, music.
Watts, George A., 18 Maple avenue, mechanic.
Webber, Edward O., 79 Partridge avenue, rubber worker.
Webber, Orrin H., 88 Jaques street, carpenter.
Welch, James T., 303 Highland avenue, mason.
Wemyss, George D., 5 Austin street, furniture manufacturer.
Wentworth, Frank H., 61 Dartmouth street, salesman.
Wheelock, Gilbert C., 5 Oakland avenue, conductor.
Whitaker, Joseph W., rear 146 Sycamore street, clerk, B. & M. R. R.
White, Christopher J., 9 Concord avenue, clerk.
White, Clifford F., 41 Greenville street, watchman.
White, Frank H., 14 Montgomery avenue, map moulder.
White, Frederick A., 70 Dover street, shipper.
White, Henry F., 18 Grant street, plater.
White, J. Harvey, 411 Broadway, produce.
White, Joseph A., 150 Hudson street, carpenter.
White, Maurice J., 52 Linwood street, clerk.
Whiton, George F., 20 Otis street, leather.
Wiggin, Walter S., 42 Walnut street, clerk.
Wilber, John F., 69 Franklin street, compositor.
Wild, B. Frank, 241 School street, coal dealer.
Wilde, George, 104 Broadway, clerk.
Wilkins, Albert S., 22 South Church street, carpenter.
Willey, Clarence H., 26 Dartmouth street, hay, etc.
Williams, Frank G., 37 Albion street, milk dealer and livery stable.
Willoughby, George T., 111 Central street, builder.
Wilson, John R., 60 Albion street, carpenter.
Wilson, Joseph T., 6 Pearl street, machinist.
Wilson, William B., 10 Lincoln avenue, superintendent.
Winslow, Isaac S., 38 Spring street, no occupation.
Winterbottom, Charles J., 21 School street, candy.
Wood, Charles H., 44 Stone avenue, clerk.
Woodbury, Frederick A., 79 Marshall street, boots and shoes.
Woods, Thomas S., 69 Joy street, carpenter.

Wright, Frank E., 16 Rossmore street, machinist.
Wright, Herbert E., 47 Pearl street, milk cans.
Wyatt, Charles B., 10 Linden avenue, machinist.
Wyman, Charles B., 67 Thurston street, restaurant.

Y

Yeaton, George W., 49 Day street, yard master.
Yelland, Henry, 5 Munroe street, bottler.
Youlden, William H., 117 Cross street, driver.
Young, Willis A., 49 Cedar street, carpenter.

CITY GOVERNMENT AND OFFICERS
FOR 1899.

CITY GOVERNMENT AND OFFICERS FOR 1899.

MAYOR.

GEORGE O. PROCTOR.
44 Spring street.

BOARD OF ALDERMEN.

WARD ONE.

F. DE WITT LAPHAM 3 Hathorn street.
ORICE M. GRACEY 23 Webster street.

WARD TWO.

FRENCH O. J. TARBOX 21½ Summer street.
WILLIAM H. ENNIS 16 Bowdoin street.

WARD THREE.

FREDERICK M. KILMER, *President* . 420 Broadway.
FRANCIS M. WILSON 103 Cross street.

WARD FOUR.

SILAS L. CUMMINGS 251 Elm street.
ISAAC M. STORY 238 Summer street.

GEORGE I. VINCENT, *Clerk*.

Regular meetings, second, third and fourth Wednesday evenings of each month.

COMMON COUNCIL.

WARD ONE.

ROBERT BURNS	21 Lincoln street.
WILLARD P. P. THOMSON	33 Pinckney street.
CHARLES H. RAMSDELL	53 Tufts street.
EDWARD E. SABEN	110 Pearl street.

WARD TWO.

ARTHUR P. VINAL	36 Walnut street.
WILLIAM F. BARKER	29 A Putnam street.
HENRY C. BRINE	23 Greene street.
JOSEPH S. PIKE, JR.	53 Preston street.

WARD THREE.

CHARLES A. GRIMMONS, <i>President</i>	72 Thurston street.
WILLIAM H. CUSHMAN	6 Evergreen avenue.
SAMUEL T. LITTLEFIELD	361 Broadway.
T. FRANKLIN PRESTON	19 Hudson street.

WARD FOUR.

JOHN F. FOSTER	25 Kingston street.
PAUL J. SMITH	79 Irving street.
JOSEPH P. BOYCE	78 Liberty avenue.
EDWIN F. CUSHING	72 Central street.

CHARLES S. ROBERTSON, *Clerk*.

Regular meetings, Thursday evenings next following the second, third and fourth Wednesdays of each month.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

ACCOUNTS.—Aldermen Gracey and Ennis; Councilmen Saben, Boyce, and Barker.

CITY ENGINEERING.—Aldermen Lapham and Kilmer; Councilmen Ramsdell, Preston, and Brine.

CLAIMS. — The Mayor, Alderman Ennis ; the President of the Common Council, Councilmen Smith and Boyce.

ELECTRIC LINES. — Aldermen Wilson, Kilmer, and Cummings ; Councilmen Vinal and Littlefield.

FINANCE. — The Mayor, Aldermen Kilmer and Story ; the President of the Common Council, Councilmen Burns, Vinal, Cushman, and Smith.

FIRE DEPARTMENT. — Aldermen Kilmer and Gracey ; Councilmen Vinal, Foster, and Thomson.

FUEL AND STREET LIGHTS. — Aldermen Wilson and Cummings ; Councilmen Littlefield, Boyce, and Ramsdell.

HIGHWAYS. — Aldermen Lapham and Cummings ; Councilmen Cushman, Pike, and Cushing.

LEGISLATIVE MATTERS. — The Mayor, Alderman Kilmer ; the President of the Common Council, Councilmen Foster and Pike.

ORDINANCES. — Aldermen Gracey and Tarbox ; Councilmen Saben, Pike, and Thomson.

PRINTING. — Aldermen Tarbox and Story ; Councilmen Foster, Brine, and Preston.

PUBLIC GROUNDS. — Aldermen Story and Wilson ; Councilmen Smith, Saben, and Brine.

PUBLIC PROPERTY. — Aldermen Cummings and Kilmer ; Councilmen Burns, Preston, and Barker.

SOLDIERS' RELIEF. — Aldermen Cummings and Tarbox ; Councilmen Cushing, Ramsdell, and Littlefield.

WATER. — Aldermen Ennis and Gracey ; the President of the Common Council, Councilmen Littlefield and Barker.

JOINT SPECIAL COMMITTEE.

GRADE CROSSINGS, ABOLISHING OF. — Aldermen Tarbox and Story ; Councilmen Foster, Ramsdell, and Littlefield.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

ELECTIONS AND RETURNS. — Aldermen Ennis, Gracey, and Tarbox.

ENROLLED ORDINANCES AND RESOLUTIONS. — Aldermen Story, Ennis, and Lapham.

LICENSES. — Aldermen Wilson, Lapham, and Cummings.

POLICE. — The Mayor, Aldermen Wilson and Lapham.

SEWERS. — Aldermen Kilmer, Gracey, and Story.

SPECIAL BUILDING PERMITS. — Aldermen Lapham and Kilmer.

STATE AID. — Aldermen Gracey, Wilson, Story, and Tarbox.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Thomson, Littlefield, and Brine.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Burns, Cushman, and Boyce.

SCHOOL COMMITTEE.

GEORGE O. PROCTOR, Mayor, *Chairman, ex officio.*

CHARLES A. GRIMMONS, President of the Common Council, *ex officio.*

(Term, three years.)

WARD ONE.

S. NEWTON CUTLER (elected 1897), 28 Flint street.

SANFORD HANSCOM (elected 1896), 3 Webster street.

GEORGE S. POOLE (elected 1898), 46 Mt. Vernon street.

WARD TWO.

ALVAH B. DEARBORN (elected 1897), 34 Bow street.

JAMES F. BEARD (elected 1896), 17 Prospect Hill avenue.

FRED W. GILBERT (elected 1898), 101 School street.

WARD THREE.

QUINCY E. DICKERMAN (elected 1898), 85 Central street.

FRANK H. HARDISON (elected 1897), 192 Central street.

GEORGE W. W. WHITING (elected 1896), 280 Broadway.

WARD FOUR.

MARTIN W. CARR (elected 1896), 74 Craigie street.

GEORGE A. MILES (elected 1897), 249 Elm street.

HENRIETTA B. H. ATTWOOD (elected 1898), 18 Herbert street.

GORDON A. SOUTHWORTH, *Superintendent and Secretary.*

Office, City Hall Annex.

Hours: 8 A. M. to 12 M., and 1.30 to 5 P. M.; Saturdays, 8 to 10.30 A. M.

Regular meetings, last Monday evening of each month.

ASSESSORS.

(Term, three years.)

BENJAMIN F. THOMPSON, *Chairman* (term expires 1902).

HARRY A. TRUE (term expires 1901).

NATHAN H. REED (term expires 1900).

ASSISTANT ASSESSORS.

(Term, one year.)

WARD ONE.

FRED. B. CLAPP.

WARD TWO.

CHARLES C. FARRINGTON.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

FRANK A. TEELE.

Clerk, ALBERT B. FALES.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

BOARD OF HEALTH.

(Term, three years.)

ALLEN F. CARPENTER, *Chairman* (term expires 1900).

WILLIAM F. HOLMES, M. D. (term expires 1901).

ALVANO T. NICKERSON (term expires 1902).

Clerk, WILLIAM P. MITCHELL.

Agent, CALEB A. PAGE.

Superintendent Collection of Ashes and Offal, GEORGE W. S. HUSE.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

OVERSEERS OF THE POOR.

Office, City Hall Annex.

GEORGE O. PROCTOR, Mayor, *Chairman, ex officio.*

(Term, four years.)

EDWARD B. WEST, *President* (term expires 1903).

ALBERT W. EDMANDS (term expires 1901).

HERBERT E. MERRILL (term expires 1902).

JAMES H. BUTLER (term expires 1900).

Agent, CHARLES C. FOLSOM.*Secretary*, CORA F. LEWIS.Office open : 8 A. M. to 12 M., 1 to 4 P. M. ; Saturdays, 8 A. M.
to 12 M.

WATER COMMISSIONERS.

(Term, three years.)

GEORGE D. WEMYSS, *President* (term expires 1900),
5 Austin street.GEORGE A. KIMBALL (term expires 1901),
33 Warren avenue.WILLIAM FRANKLIN HALL (term expires 1902),
345 Broadway.FRANK E. MERRILL, *Superintendent and Clerk.*

Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

REGISTRARS OF VOTERS.

(Term : City Clerk, one year ; other members, three years.)

CROMWELL G. ROWELL, *Chairman* (term expires 1900).

CHARLES P. LINCOLN (term expires 1901).

CHARLES E. PARKS (term expires 1902).

GEORGE I. VINCENT, *City Clerk.*

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN, *Chairman* (term expires 1900).

CHARLES A. WEST (term expires 1901).

JOHN B. VIALI (term expires 1902).

EDWARD C. BOOTH (term expires 1901).
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