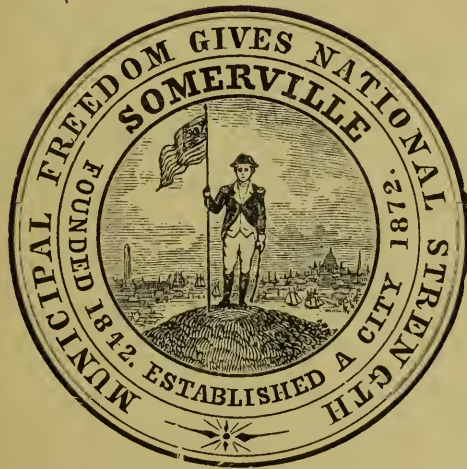




CITY OF SOMERVILLE

ANNUAL REPORTS

1891



SOMERVILLE JOURNAL PRINT.

1892.



CITY GOVERNMENT AND OFFICERS FOR 1891.

MAYOR.

CHARLES G. POPE.

BOARD OF ALDERMEN.

ALVANO T. NICKERSON, *President.*

WARD ONE.

CHARLES B. SANBORN	. . . .	4 Austin Street.
CLARENCE H. WILLEY	. . . .	11 Flint Street.

WARD TWO.

ALLEN F. CARPENTER	. . . .	10 Park Street.
JEREMIAH J. LYONS	. . . .	46 Highland Avenue.

WARD THREE.

ALVANO T. NICKERSON	. . . .	334 Broadway.
CHARLES B. OSGOOD	. . . .	71 Gilman Street.

WARD FOUR.

ALBERT W. EDMANDS	. . . .	155 Summer Street.
WILLIAM A. HUNNEWELL	. . . .	9 Mason Avenue.

CLERK.

GEORGE I. VINCENT.

COMMON COUNCIL.FRANK E. DICKERMAN, *President.*

WARD ONE.

EDRIC ELDRIDGE	88 Pearl Street.
GEORGE W. PRICHARD	Mystic Street.
S. WALKER JANES	142 Washington Street.
ISAIAH H. WILEY	5 Webster Street.

WARD TWO.

FRANK E. FITTS	17 Pleasant Avenue.
FRANKLIN J. HAMBLIN	30 Walnut Street.
WARREN J. ROBINSON	17 Vinal Avenue.
JAMES W. BEAN	40 Columbus Avenue.

WARD THREE.

WILLIAM L. BARBER	36 Marshall Street.
FRANK E. DICKERMAN	85 Central Street.
THOMAS S. WENTWORTH	350 Broadway.
STILLMAN G. SMITH	37 Sewall Street.

WARD FOUR.

NEWELL F. CASWELL	43 Cedar Street.
SOLOMON S. HIGGINS	158 Summer Street.
FRANKLIN F. PHILLIPS	211 Holland Street.
CHARLES A. G. WINTHER	408 Highland Avenue.

CLERK.

CHARLES S. ROBERTSON.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

ACCOUNTS. — Aldermen Hunnewell, Osgood ; Councilmen Hamblin, Wiley, Robinson.

CITY ENGINEERING. — Aldermen Carpenter, Edmands ; Councilmen Prichard, Higgins, Smith.

CLAIMS. — His Honor the Mayor; Alderman Nickerson; the President of the Common Council; Councilmen Winther, Bean.

FINANCE. — His Honor the Mayor; Aldermen Edmands, Osgood; the President of the Common Council; Councilmen Janes, Fitts, Barber, Phillips.

FIRE DEPARTMENT. — Aldermen Sanborn, Edmands; Councilmen Phillips, Bean, Smith.

FUEL AND STREET LIGHTS. — Aldermen Hunnewell, Osgood; Councilmen Robinson, Wentworth, Willey.

HIGHWAYS. — Aldermen Carpenter, Willey; Councilmen Barber, Winther, Janes.

LEGISLATIVE MATTERS. — His Honor the Mayor; Alderman Lyons; the President of the Common Council; Councilmen Phillips, Hamblin.

ORDINANCES. — Aldermen Lyons, Hunnewell; Councilmen Fitts, Caswell, Wentworth.

PRINTING. — Aldermen Willey, Nickerson; Councilmen Robinson, Smith, Caswell.

PUBLIC GROUNDS. — Aldermen Osgood, Willey; Councilmen Winther, Bean, Prichard.

PUBLIC PROPERTY. — Aldermen Nickerson, Lyons; Councilmen Eldridge, Caswell, Wentworth.

SOLDIERS' RELIEF. — Aldermen Sanborn, Edmands; Councilmen Eldridge, Higgins, Barber.

WATER. — Aldermen Lyons, Willey; the President of the Common Council; Councilmen Higgins, Hamblin.

COMMITTEES OF THE BOARD OF ALDERMEN.

STANDING COMMITTEES.

ELECTIONS. — Aldermen Lyons, Nickerson.

ENROLLED ORDINANCES. — Aldermen Hunnewell, Willey.

LICENSES. — Aldermen Willey, Hunnewell.

POLICE. — His Honor the Mayor; Aldermen Nickerson, Carpenter.

SEWERS. — Aldermen Edmands, Sanborn, Osgood.

STATE AID. — Aldermen Osgood, Carpenter, Sanborn, Hunnewell.

SPECIAL COMMITTEE.

BUILDING PERMITS. — Aldermen Carpenter, Sanborn.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Fitts, Smith, Eldridge.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Robinson, Higgins, Wiley.

SCHOOL COMMITTEE.

CHARLES G. POPE, Mayor, Chairman, *ex officio*.

FRANK E. DICKERMAN, President of the Common Council, *ex officio*.

(Term, three years.)

WARD ONE.

S. NEWTON CUTLER (elected 1888).

HORACE C. WHITE, M. D. (elected 1889).

SANFORD HANSCOM, M. D. (elected 1890).

WARD TWO.

ALPHONSO H. CARVILL, M. D. (elected 1888).

JAMES F. BEARD (elected 1889).

THOMAS M. DURELL, M. D. (elected 1890).

WARD THREE.

NORMAN W. BINGHAM (elected 1888).

QUINCY E. DICKERMAN (elected 1889).

HELEN J. SANBORN (elected 1890).

WARD FOUR.

GILES W. BRYANT, M. D. (elected 1889).

MARTIN W. CARR (elected 1890).

ADDIE B. UPHAM (elected 1888).

CLARENCE E. MELENEY, *Superintendent and Secretary*.

ASSESSORS.

(Term, three years.)

BENJAMIN F. THOMPSON (term expires 1893).

GEORGE W. HADLEY (term expires 1894).

SAMUEL T. RICHARDS (term expires 1892).

ASSISTANT ASSESSORS.

(Term, one year.)

WARD ONE.

JOSHUA H. DAVIS.

WARD TWO.

WILLIAM A. FLAHERTY.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

HARRY A. TRUE.

BOARD OF HEALTH.

(Term : Physician, three years ; other members, two years.)

J. FRANK WELLINGTON (term expires 1893), Chairman.

CHARLES H. CRANE (term expires 1892).

ALVAH B. DEARBORN, M. D. (term expires 1892).

Clerk, WILLIAM P. MITCHELL.

Inspector, CALEB A. PAGE.

OVERSEERS OF THE POOR.

Office, Police Building, Bow Street.

CHARLES G. POPE, Mayor, Chairman, *ex officio*.
(Term, four years.)

CHARLES G. BRETT (term expires 1893).

EDWARD B. WEST (term expires 1891).

DANIEL C. STILLSON (term expires 1892).

NATHAN H. REED (term expires 1894).

Agent, CHARLES C. FOLSOM.

Secretary, FRANK W. KAAAN.

SOMERVILLE MYSTIC WATER BOARD.

Office, Prospect Street, corner Somerville Avenue.

(Term, three years.)

GEORGE D. WEMYSS (term expires 1894),
5 Austin Street.

ALBION A. PERRY (term expires 1893),
366 Broadway.

GEORGE A. KIMBALL (term expires 1892),
21 Prospect Hill Avenue.

NATHANIEL DENNETT, *Supt. Water Works*.
FRANK E. MERRILL, *Clerk*.

REGISTRARS OF VOTERS.

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

CROMWELL G. ROWELL (term expires 1894), Chairman.

CHARLES P. LINCOLN (term expires 1892).

WILLIAM B. HAWES (term expires 1893).

GEORGE I. VINCENT, *City Clerk*.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN, *Chairman* (term expires 1894).

WILLIAM E. WELD, *Secretary* (term expires 1893)

GEORGE A. BRUCE (term expires 1892).
JAMES E. WHITAKER (term expires 1893).
JOHN B. VIALL (term expires 1893).
J. HENRY FLITNER (term expires 1892).
CHRISTOPHER E. RYMES (term expires 1894).
ELIJAH C. CLARK (term expires 1892).
CHARLES H. BROWN (term expires 1894).
Librarian, HARRIET A. ADAMS.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

GEORGE I. VINCENT.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE.

MESSENGER TO CITY COUNCIL.

JAIRUS MANN.

CITY SOLICITOR.

SELWYN Z. BOWMAN.

CITY AUDITOR.

CHARLES S. ROBERTSON.

CITY ENGINEER.

HORACE L. EATON.

SUPERINTENDENT OF STREETS.

THOMAS H. EAMES.

SUPERINTENDENT OF PUBLIC BUILDINGS AND LIGHTS.

THOMAS R. ROULSTONE.

CHIEF OF POLICE.

MELVILLE C. PARKHURST.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

JAMES R. HOPKINS.

INSPECTOR OF BUILDINGS.

JAMES R. HOPKINS to May 13.
THOMAS R. ROULSTONE from May 13.

SUPERINTENDENT OF TELEGRAPH AND TELEPHONE LINES.

JAMES R. HOPKINS.

CITY PHYSICIAN.

ALVAH B. DEARBORN, M. D.

INSPECTOR OF MILK AND VINEGAR.

THOMAS CUNNINGHAM.

INSPECTOR OF PROVISIONS AND OF ANIMALS INTENDED FOR SLAUGHTER.

D. WARNER DANFORTH.

CLERK OF ASSESSORS AND COMMITTEES.

WILLIAM P. MITCHELL.

ASSISTANT CLERK OF ASSESSORS AND COMMITTEES.

ALBERT B. FALES.

Suitable Person to Cause to be Properly Interred the Bodies of
Honorably Discharged Soldiers, Sailors, and Marines,
Under Chapter 395, Acts of 1889.

JESSE J. UNDERHILL.

CONSTABLES.

JAIRUS MANN.	WILLIAM D. HAYDEN.
ROBERT R. PERRY.	SAMUEL R. DOW.
CHARLES C. FOLSOM.	JOSEPH J. GILES.
EDWARD MCGARR.	GEORGE CULLIS.
CHRISTOPHER C. CAVANAGH.	DENNIS KELLEY.
EUGENE A. CARTER.	

FIELD DRIVERS.

CHRISTOPHER C. CAVANAGH.	CHARLES S. THRASHER.
GEORGE H. CARLETON.	GEORGE W. BEAN.
JOHN E. FULLER.	CHARLES L. ELLIS.
JACOB W. SKINNER.	JOHN G. KNIGHT.
THEODORE E. HERON.	

FENCE VIEWERS.

CHARLES A. PEARSON.	LAMBERT M. MAYNARD.
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POUND KEEPER.

CHARLES A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

AMMIEL COLMAN, 34 Marshall Street.

MEASURER OF WOOD AND BARK.SAMUEL T. LITTLEFIELD.

MEASURER OF GRAIN.JOHN CRAIG.

WEIGHERS OF COAL.

JOHN CRAIG.	D. WARNER DANFORTH.
GEORGE K. WALCOTT.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	C. C. WOOLEY.
	G. E. SLACK.

WEIGHERS OF HAY AND STRAW.

JOHN CRAIG.	THADDEUS HARRINGTON.
CHARLES A. TUCKER.	C. C. WOOLEY.
	G. E. SLACK.

WEIGHERS OF BEEF.

D. WARNER DANFORTH.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	GEORGE K. WALCOTT.
C. C. WOOLEY.	G. E. SLACK.

WEIGHERS OF BOILERS AND HEAVY MACHINERY.

THADDEUS HARRINGTON.	CHARLES H. TUCKER.
GEORGE K. WALCOTT.	C. C. WOOLEY.
	G. E. SLACK.

UNDERTAKERS.

WILLIAM A. FLAHERTY.	PATRICK H. RAFFERTY.
EDWARD H. MARSH.	THOMAS J. BARKER.
ALFRED E. MANN.	PATRICK RAFFERTY.
HORACE D. RUNEY.	WILLIAM A. FRINK.

POLICE DEPARTMENT.

MELVILLE C. PARKHURST, *Chief.*

ROBERT R. PERRY, <i>Captain.</i>	SAMUEL R. DOW, <i>Sergeant.</i>
EDWARD MCGARR, <i>Sergeant.</i>	CHRIS. C. CAVANAGH, <i>Sergeant.</i>
JOHN E. FULLER.	PHINEAS W. SKINNER.
ALBION L. STAPLES.	SAMUEL A. BROWN.
JUDSON W. OLIVER.	JOHN HAFFORD.
GEORGE W. BEAN.	MYRON H. KINSLEY.
GEORGE L. SMITH.	GEORGE A. BODGE.
EDWARD M. CARTER.	DENNIS KELLEY.
JOHN F. JOHNSON.	GEORGE H. CARLETON.
EUGENE A. CARTER.	HUBERT H. MILLER.
EDWARD E. HAMBLIN.	FRANCIS A. PERKINS.
CHARLES L. ELLIS.	CHARLES S. THRASHER.
CHARLES E. WOODMAN.	WILLIAM H. JOHNSON.
ARTHUR E. KEATING.	JOHN G. KNIGHT.
STEPHEN S. SMITH.	JACOB W. SKINNER.

THEODORE E. HERON.

MELVILLE C. PARKHURST, *Lock-up Keeper.*

MAYOR'S INAUGURAL ADDRESS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, }
January 14, 1891. }

ORDERED, That the committee on printing be and is hereby authorized and instructed to have printed, for public use, six hundred copies of the address delivered by his Honor the Mayor at the inauguration of the present City Government, the expense incurred to be charged to Printing and Stationery account.

Read twice and adopted, and sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 14, 1891.

Read twice and adopted in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

Approved:

January 19, 1891.

CHARLES G. POPE, *Mayor.*

INAUGURAL ADDRESS
OF
HON. CHARLES G. POPE,
DELIVERED JAN. 5, 1891.

GENTLEMEN OF THE CITY COUNCIL :—

To-day begins the city's twentieth year. Fortunate in its situation and in the variety of its surface, in its nearness to the metropolis of the Commonwealth and the abundant means it possesses of communicating with it, in the advantages offered by its schools and churches to those seeking homes, in the character of its citizens and their opinions on some of the questions which are of vital importance to any community, and in the generally careful and judicious management of its affairs, its growth during the period of its existence has been something more than ordinary.

Starting with a population of about 16,000, to-day we number more than 40,000. During the past five years more than 1,800 permits to build houses have been issued, of which number 507 were issued in 1890. In 1871, the last year of the town, the assessed value of taxable property was \$15,775,000, and in May last it was \$32,557,500.

In 1872, the first year of the city, there were fifty-two schools and sixty-five teachers; to-day there 128 schools and 158 teachers. In 1872 there were eleven organized religious societies within our corporate limits; to-day there are twenty-seven.

To the management of the affairs of a municipality such as the foregoing suggests we are called by the suffrages of our fellow-citizens. Coming with the best intentions for faithful service, as our immediate predecessors and those before them have done, let us strive to avoid their errors, if they made any, and to imitate their example in whatever they have shown to be right.

In the hope of aiding you to properly begin the labors before you, I invite your attention to a statement of the condition of the various

departments of the city and to such suggestions as I may think best to make.

And first, with reference to the

FINANCES.

From the last annual report it appears that the funded debt of the city January 1st, 1890, was as follows:—

Funded Debt, City Loan	\$618,000
Funded Debt, Water Loan	334,500
Total Funded Debt	<u>\$952,500</u>

The debt was increased during the year as follows:—

For the cost of a new schoolhouse in Ward Two (Prospect Hill District)	\$50,000
For the cost of a new schoolhouse in Ward Three (Jaques street)	35,000
For the cost of Highland Schoolhouse addition	15,000
For the cost of extension and improvement of the water works	50,000
Total increase	<u>\$150,000</u>

The debt was decreased during the year by the payment from the tax levy of the following:—

City Loan Bonds	\$40,000
Water Loan Bonds	5,000
Total decrease	<u>\$45,000</u>

Leaving the Funded Debt January 1, 1891, \$1,057,500, classified as follows, viz.:—

City Loan Bonds bearing interest at 4 per cent.	\$478,000
“ “ “ “ “ “ 5 “	200,000
Water Loan Bonds “ “ “ 4 “	242,000
“ “ “ “ “ “ 5 “	127,500
“ “ “ “ “ “ 5½ “	10,000
Total	<u>\$1,057,500</u>

The bonds above mentioned were authorized to be issued October 1, 1890, but owing to the unfavorable condition of the market have not yet been sold.

The above 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 sidewalk assessments, etc.

The following tables are respectfully presented for future reference :—

YEAR.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt by Contribution to Sinking Funds.	Reduction of Funded Debt by Annual Payments.	Tax Rate per \$1,000 of Valuation.
Town . . .	\$593,349	. . .	. . .	. . .	. . .
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	\$45,130 62	\$10,000	\$2 07
1877 . . .	1,606,854	10,000	48,828 58	10,000	2 30
1878 . . .	1,596,854	. . .	51,004 64	10,000	2 91
1879 . . .	1,585,000	. . .	53,061 76	11,854	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	1 28
1889 . . .	952,500	130,000	. . .	38,000	1 27
1890 . . .	1,057,500	150,000	. . .	45,000	1 38

* Sinking funds 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

To provide for the payment of the current expenses, State and County taxes, and debt requirements for the past year, the annual tax levy was made as follows :—

Real estate, valuation	\$29,981,700
Personal property, valuation	2,575,800
	<hr/>
Total valuation	\$32,557,500
A rate of \$14.00 on \$1,000 valuation, with 10,948	
polls assessed at \$2.00, and six (women) at	
50 cents, gives the total amount of the tax	
levy	\$477,704

The appropriations provided for by the tax levy were as follows :—

CURRENT EXPENSES.

Fire Department	\$32,900 00
Health Department	6,000 00
Highways	45,000 00
Indigent Soldiers and Sailors	900 00
Miscellaneous	6,500 00
Police	32,000 00
Police Station Incidentals	2,600 00
Public Library	3,000 00
Public Grounds	6,000 00
Printing and Stationery	5,000 00
Relief and Burial of Indigent Soldiers and Sailors,	4,000 00
Salaries	28,000 00
School Contingent	20,500 00
School Fuel	7,000 00
Schoolhouse Incidentals	16,000 00
School Teachers' Salaries	43,500 00
Sewers	10,000 00
Sidewalks	10,000 00
Street Lights	22,000 00
Support of Poor	12,000 00
Steam Fire-engine and Equipments	4,600 00
Watering Streets	4,000 00
Water Maintenance	18,000 00
Total	<hr/> \$339,500 00

DEBT REQUIREMENTS.

Interest	\$34,000 00
Reduction of Funded Debt	45,000 00
	<hr/>
	79,000 00

Total amount of appropriations provided by the tax levy \$418,500 00

Amount carried forward \$418,500 00

Amount brought forward \$418,500 00

FUNDED DEBT ACCOUNT.

Highland Schoolhouse Addition	\$15,000 00	
Schoolhouse in Ward Two, Prospect Hill District,	50,000 00	
Schoolhouse in Ward Three.	35,000 00	
Water Works Extension	50,000 00	
		<hr/>
Total amount of appropriation on funded debt account		150,000 00

In addition to the above the following appropriations were also made, viz. :—

Public Library, amount received from County Treasurer for dog licenses	\$2,631 12	
School Teachers' Salaries, amount received from the City of Boston for return on water rates	55,000 00	
		<hr/>
		57,631 12
		<hr/>
Total amount appropriated	\$626,131 12	

The expenditures for current expenses were as follows :—

Support of Schools	\$147,700 00	
Maintenance of Water Works	18,467 00	
Support of Poor	13,186 00	
Public Library	4,500 00	
Fire Department	36,483 00	
Health Department	5,750 00	
Highways	48,127 00	
Indigent Soldiers and Sailors	661 00	
Miscellaneous	7,335 00	
Police	30,297 00	
Police Station Incidentals	2,469 00	
Public Grounds	7,427 00	
Printing and Stationery	5,212 00	
Relief and Burial of Indigent Soldiers and Sailors,	2,347 00	
Salaries	27,900 00	
Sewers	9,368 00	
Sidewalks	9,150 00	
Street Lights	20,554 00	
Watering Streets	3,820 00	
		<hr/>
Total amount of expenditures for current expenses		\$400,753 00

The appropriations for current expenses are limited by the provisions of Chapter 312 of the Acts and Resolves of 1885, which is as follows:—

[Chap. 312.]

An Act to limit Municipal Debt and the rate of taxation in Cities. *Be it enacted, etc., as follows:—*

SECT. 1. The taxes assessed on property in any city, except the city of Boston, exclusive of state tax, county tax, and sums required by law to be raised on account of the city debt, shall not exceed in any year twelve dollars on every one thousand dollars of the average of the assessors' valuations of the taxable property therein for the preceding three years, the valuation for each year being first reduced by the amount of all abatements allowed thereon previous to the thirty-first day of December in the year preceding said assessment, and any order or appropriation requiring a larger assessment than is herein limited shall be void.

As you see, the law limits the amount that can be raised by taxation for current expenses, but the rate is determined by the valuation of the property upon which it is assessed.

Under this act the amount which could legally be assessed for current expenses was \$341,722; but by appropriating the entire income of the water works, together with the amount received from the county for dog licenses, for the payment of current expenses, the amount actually appropriated was \$400,753.

The committee on finance are annually embarrassed by requests from the various departments for appropriations aggregating a much larger amount than can legally be appropriated. The statute on this question is so clearly defined that I earnestly request the members of the City Council and other departments having charge of the expenditure of money to remember that the duty of that committee lies more particularly in the line of making a just and equitable distribution of the amount within their power to recommend, than the consideration of requests for larger appropriations than can be legally made.

FIRE DEPARTMENT.

Much has been done within the past two or three years to increase the efficiency of this department, and I feel justified in stating that it never was in better condition than now. During the year just closed

the apparatus has been increased by the purchase of a steam fire-engine, with the necessary equipments, and a hose wagon, similar to those previously in service, and carrying, besides hose, forty-three feet of ladders and two portable chemical extinguishers. Competent opinion pronounces both the engine and wagon of first quality, and equal to the best owned by any city. The manual force has not been increased, except so far as was necessary to man the new steamer, and now numbers seventy-eight, which is less than the ordinance permits.

A department so important to the welfare of the people should be kept as well provided as the means at command will allow, and it is not unreasonable to expect that, as the population of the city increases and the area to be protected is enlarged, there will be yearly calls for additional apparatus, and whatever else will enable those in charge to properly meet the demands made upon it. In the opinion of the chief engineer the next important piece of apparatus that should be provided is a chemical engine. The purchase involves the expense of enlarging the house of Engine One, or furnishing accommodations elsewhere, and this must be taken into account whenever the matter is considered. He also asks that a repeater be bought for the fire-alarm telegraph, which will allow an increase in the number of circuits to six or eight. The value of such a change is obvious, as the smaller the area covered by a circuit, the less the exposure in case of its temporarily getting out of order. But it is claimed that this will necessitate more room for the additional batteries required, and hence the question of enlarging the engine house must be considered in granting this request.

I do not recommend either purchase. I simply call your attention to them. Perhaps it will be found that the wiser course to pursue, and the only one we shall be able to adopt at present, will be to buy a repeater of the requisite capacity and leave the matter of increasing the circuits, as also the purchase of a chemical engine, with the attendant expenses in either case, to the careful consideration of our successors.

POLICE.

The organization of the police department remains the same as last year, the total number of men employed being thirty-two. The resignation of a patrolman on account of ill health was received in the month of March, and the vacancy was filled by appointment. Three

street signal boxes have been added to the system during the year, and a new van has been purchased. One thousand two hundred and twenty-four arrests were made from December 1, 1889, to December 1, 1890, of which number 695 were for drunkenness, one-third of the persons complained of for this offence being non-residents. Thirty-eight search warrants have been sworn out the past year, and as many places searched by the police for intoxicating liquors illegally kept, and thirty-three prosecutions have been commenced in the police court against the persons in whose possession liquors were found.

The overwhelming opinion of our citizens in favor of no license — an opinion that has never varied since the statute allowed its formal expression — entitles them to have their will respected and enforced by those charged with the duty of discovering the violators of the law. My instructions to the chief on this subject during my term of service have been to continue the warfare against the liquor traffic, and to prosecute in all cases where he could obtain legal evidence sufficient to render it probable that there would be no failure of proof when the parties appeared in court. In justice to him, and those under his direction, I desire to state that I believe my instructions have been carried out in letter and spirit. This is all that it is reasonable to expect in dealing with the subject. The city is probably as free from the evil as it is possible to make a community of its size, and the traffic, so far as it exists, is driven out of sight. Sworn to see to the enforcement of all laws operative within our limits, and desiring to do so, I ask the co-operation and assistance of the City Council in the discharge of this part of my duties. If they will furnish me with any legal evidence tending to show a violation of the law on this subject, I shall be happy to consider and act upon it. And I would suggest that they request the residents of the various localities from which they come to furnish them any such evidence that may come to their knowledge, to the end that this evil may be reduced to the minimum and kept there. Evidence is all that is needed.

The amount expended to maintain the department the past year is \$35,900.42.

POOR.

The amount expended under the direction of the overseers for the support of the poor during the year 1890 is \$15,261.14, of

which sum \$1,415.28 was received from cities, towns, and individuals.

Temporary aid has been given to 704 persons. Sixty individuals were receiving full support at the close of the year, of whom thirty-nine were insane. The amount paid to public institutions for the care of the insane is \$5,804.15, an increase over that of the previous year. This sum is likely to be still further increased during the present year.

In this connection it should be added that there was expended, under the direction of a committee of the Board of Aldermen, for the relief and burial of indigent soldiers and sailors the sum of \$2,347.

HIGHWAYS, SIDEWALKS, AND SEWERS.

The amount expended for highways in 1890 is \$55,138.50. The city accepted and laid out fourteen streets, thereby adding one and sixty-nine hundredths miles to the length of public streets, and three and thirty-three hundredths miles of private streets were opened by abutters. Two and five-tenths miles of macadamized streets have been rebuilt, and four-tenths of a mile of new streets have been macadamized. The total length of streets in the city, public and private, as computed by the city engineer, is eighty and thirty-six hundredths miles. Sixteen thousand and twenty-seven feet of edge-stones were set.

The amount appropriated for sidewalks is \$10,000, and 9,115 lineal feet of brick and 14,120 lineal feet of gravel sidewalk were constructed. In addition to this, 655 lineal feet of gravel and 551 lineal feet of brick sidewalk have been built, the labor for which has been paid from the appropriation for highways, the abutters furnishing the materials.

Three hundred and forty-four plans for street numbering were prepared, and under the direction of the committee on highways 3,750 doors were numbered previous to May 15 last. This, although otherwise valuable, was of special benefit to the assessors in the performance of their duties. Much was also accomplished by this department in erecting signs showing the names of the various streets, 385 having been placed in position.

One and sixty-four hundredths miles of public sewers were built during the past year, at a cost of \$9,107.40, of which sum the city paid \$592.77, and assessed the balance on the abutters. About half a

mile of private sewers were constructed under the supervision of inspectors employed by the city. The length of public sewers is forty-five and forty-four hundredths miles, and the total cost of the system to date is about \$791,100.

PUBLIC GROUNDS.

The greater part of the money appropriated for public grounds during the year was expended on the Central Hill Park. A large amount of grading was done here, thereby substantially finishing the work proposed on the land between the High School house and the engine house. The whole expense of preparing this part of the hill for a park, since the improvement was begun in 1883, exclusive of the battery, is about \$17,000. Probably no like expenditure has yielded so great an amount of pleasure to our citizens as this, and no city government, in my judgment, should ever allow this territory to be appropriated for other uses than those to which it is now applied.

Under the direction of the committee on public grounds, there have been erected during the past year seven memorial tablets to mark points of historic interest in the city, as follows:—

On Washington street, at the northwest corner of Dane street, near which place John Woolrich, the first white settler within our limits, built in 1630.

On the northwest side of Main street, at Broadway, telling of the midnight ride of Paul Revere over this road, and marking the sight of the "Winter Hill Fort," a stronghold built by the Americans while besieging Boston.

On Elm street, at the northeast corner of Willow avenue, where a sharp fight occurred between the patriots and the British April 19, 1775, and where British soldiers were buried.

On the northwest side of Washington street, near the residence of Mr. Samuel W. Holt, where, on the neighboring hillside, James Miller, a minuteman, aged sixty-five, "too old to run," as he said, was slain by the British April 19, 1775.

On the house of Mr. Abner Blaisdell, located on the southwest side of Somerville avenue, nearly opposite Loring street, designating the headquarters of Brigadier-General Nathaniel Greene while commanding the Rhode Island troops during the siege of Boston.

On the southwest side of High street, opposite Prospect Hill

avenue, marking the site of the Citadel, the most formidable work in the American lines during the siege of Boston, and the hill on which the "Union Flag, with its thirteen stripes, — the emblem of the united colonies, — first bade defiance to an enemy"; and

On the stonework of the Battery in Central Hill Park, locating the "French Redoubt," which was "built by the Revolutionary Army in 1775 as a part of the besieging lines of Boston."

I allude to these tablets thus fully in order to call attention to the points of interest within our borders and to what has been done, and to advise that you continue this work until the scenes of all occurrences of historic importance which we can properly claim to have taken place within our limits have been located and marked.

Through the generosity of one of the families that has been identified with the history of Somerville from the first, the city has recently come into possession of the "only ancient ruin" within the Commonwealth. The story of the Powder House, so far as known, has often been repeated. Erected at some time between 1700 and 1720, as the records show, it was at first used as a grist-mill. The Province of Massachusetts bought it in 1747, and in the deed given it is spoken of as the stone edifice formerly a windmill. It was then remodelled for a powder magazine, and used as such by the Province and Commonwealth until 1822. It was the scene of one of the early events in the stirring days of the Revolution, as you all well know.

Mr. Nathan Tufts, of Charlestown, came into possession of it at some time between 1822 and 1836, the date of his death.

Many of our citizens have long felt that this structure should belong to the city, in order to insure its preservation, and the descendants of Mr. Tufts, yielding to this desire, have generously donated it, with about 65,000 feet of land, on certain conditions, which your predecessors have accepted, and which you will be called upon to fulfil.

SCHOOLS.

Those having them in charge report that the schools have maintained their usual standard of excellence during the past year, although in some sections the pupils have been subjected to many inconveniences because of the changes that have been going on in the school buildings. Many circumstances have contributed to extend these over a longer period of time than was at first thought necessary,

but it is hoped that the value of the improvements made will compensate for the delay in obtaining them.

The whole number of pupils registered during the year is 7,878 ; the number in attendance in December last, 6,544 ; the average daily attendance for the year, 6,074 ; and the number of teachers employed, 158.

The addition to the Morse schoolhouse was completed during the past year, the Highland schoolhouse was increased by four rooms, contracts were made and work begun on a twelve-room building at the corner of Washington and Boston streets, and on an eight-room building on Jaques street in Ward Three. Very little was accomplished on the last two, however, owing to the lateness of the season, and their construction is virtually to be effected this year. I trust they will be urged forward with all reasonable speed, that they may be ready for occupancy at the opening of the schools in September next.

Relief for the High School is desired by the committee, and must be furnished without doubt at no very distant day. But considering the amount of work in building that is already on hand, it seems hardly reasonable to expect that more should be done this year, and I advise that it be not undertaken. Should you decide otherwise, I recommend that the present building be enlarged, rather than that a new one be constructed. The school committee asked the City Council of 1888 to provide an addition to the west side of the building forty-five feet by sixty-five feet, and three stories high above the basement. This was favorably reported on, and the council agreed to the proposition. A competent authority has recently examined the building at my request, and says that all probable requirements of the school for many years to come can be met in this way at a comparatively small expense. I am aware that adopting this method will temporarily disturb the working of the school ; but that is an inconvenience that can be endured, and would be, I have no doubt, without much complaint, in view of the great saving to the city in furnishing accommodations in this way.

STREET LIGHTS.

Under the terms of the contract made with the Somerville Electric Light Company, six arc and seventy-two incandescent lights have been added during the past year, making a total at the present time of

151 arc and 347 incandescent lights. Before the company is asked to increase this number, I would advise that a careful inquiry be made as to the manner in which it is fulfilling its contract, in order that the city may get the full benefit of the service that was promised and that it has the right to expect.

Three oil lamps have been put in service during the year on Boston avenue, near the Medford line.

WATER WORKS.

The principal work accomplished under the superintendence of the water board the past year was one that was begun by their predecessors, viz., the establishment of a high-service system. The Hon. Christopher E. Rymes, who rendered valuable service as inspector in the erection of the stand-pipe and machinery for the system, says in his report to the board that the city "has a plant for high-water service that is as perfect in its construction and detail as any other of the same magnitude in the country." The successful operation of the system is attested by all who have examined into its working. Aside from this, the work of the board has not varied particularly from that of previous years, except perhaps in amount.

Their report in reference to this department is quite exhaustive, and to that I refer you for particulars. In accordance with the suggestion made to your predecessors, though not precisely in the form recommended, a change has been made in our charter whereby a water board of three persons will be appointed by the mayor, subject to the approval of the aldermen, whose places as the term of each expires will be filled by an appointment in the same manner for three years. It is expected that the experience that thus will be always retained on the board will prove of advantage to the city.

In dealing with the earnings of the water works, it seems to me that the present practice of applying them to the payment of current expenses should not be continued longer. I believe that this department should be made self-supporting, and to that end that the earnings should be devoted to the improvement and maintenance of the works. I, therefore, recommend that an ordinance be prepared for your early consideration defining the finances of the water board, providing substantially that from the amount to be received from the city of Boston for returns on water rates, according to the terms of

our present contract, there shall be deducted, first, the amount appropriated by the City Council for water maintenance; second, the amount so appropriated for water works extension; and the balance then remaining shall be applied towards the payment of the interest on the water loan bonds and the liquidation of the debt.

CITY ORDINANCES.

The present edition of the municipal register is substantially exhausted, only five copies remaining in the hands of the city clerk for distribution. Since the date of its publication many ordinances have been enacted, some amending or repealing older ones, and others relating to new subjects. They are scattered in various publications of the city, and are not readily accessible to the public or the government. Changes in the statute law in some instances during the period have made necessary some modifications of the city's enactments. A much more thorough and comprehensive building ordinance than now exists is needed, and should be drafted and adopted at once. In a city growing as rapidly as ours, and composed very largely of wooden buildings, the inspection should relate not only to the internal arrangements, but the outside finish and the nearness of structures one to the other. Perhaps a more complete supervision could be obtained by making the superintendent of public buildings the inspector of all buildings erected in the city, and requiring all plans to be presented to him for approval, and allowing him, except in certain cases, to issue all permits to build.

There is much revision that should be attended to, and the council should not content itself with reprinting the ordinances in their present form. Treating the subject as it should be dealt with involves labor, I know, but the interests of the city demand it, and I trust you will give it the prompt attention it deserves.

SOLDIERS' MEMORIAL.

In November, 1887, a petition was received from W. C. Kinsley Post, 139, G. A. R., asking that a portion of the land on Central Hill, owned by the city, might be assigned to their use for the purpose of erecting thereon a memorial hall, which should become the property of the city when their organization ceased to exist. This petition was

referred at the close of the year to the next City Government, and in the following April a hearing was granted, but no action was taken. Subsequently the original plan was abandoned, a Memorial Hall Association was formed among the citizens, and in February, 1889, they petitioned that the city erect a suitable memorial to the soldiers of the late war, and requested that a hearing be given them. This was had during the following month, but no action was taken by that or the last City Council.

Much criticism, public and private, has been indulged in by a portion of the citizens interested in the subject, because those in authority from time to time since the petitions were received have not seen fit to act with reference to them. The reasons for such a course, should they be made known, would, I feel sure, commend themselves to impartial minds. Inquiry, if I am not misinformed, would develop the fact that previous governments have properly represented the majority of the tax-payers in this matter. Indeed, their attitude has been endorsed by many of those whose deeds it is proposed to commemorate.

Not that the people of Somerville are indifferent to the welfare of the veteran soldier among them, nor of the widow and children of him who sacrificed his life for country. The record shows the opposite. They have never forgotten the services of those who went forth to battle for others and for themselves, and have never failed to redeem the promises that were made at that time. They will always hold in grateful remembrance the heroic deeds of the fallen, and will accord to the living, in whatever station of life, the full measure of consideration and respect that their character and citizenship entitles them to receive.

The truest and best memorial, that without which all else is worthless, already exists in the hearts of the people. Its outward embodiment in material form is purely a business proposition. At present the financial condition of the city does not admit of its taking the form of a hall, and may not for some time to come.

The suggestion that an application should be made to the Legislature for authority to borrow outside of the present legal limit for this purpose should not be considered for a moment. Somerville's prosperity and good name among her sister cities rests on a financial policy of a different nature from this, and no greater blow could be struck at both, in my judgment, than to pursue such a course.

The present means of the city, however, would probably justify the erection of a suitable memorial in the form of a monument, if it should be thought desirable to do so. Such a design would have this advantage over the other, that it would stand exclusively and unmistakably for the soldier, and could never be put to a different use. Placed on Central Hill Park, as it might be, — than which no better site exists for miles around, — it would rival the shaft on Bunker Hill in teaching lessons of patriotism and self-sacrifice to the thousands to whom it would be visible. I commend this phase of the subject to your careful consideration.

GENTLEMEN OF THE CITY COUNCIL: —

The service to which you have pledged your best energies is one, as you will find, that requires them. The fact that it is gratuitous will not excuse you from giving to it all the time that its proper performance demands. Neither flattery nor criticism, the influence of friendship nor its opposite, should lead you to swerve from the course that good business judgment points out. You represent the whole city, and it is the interests of all its inhabitants that you are to guard. In handling the appropriations committed to your care, remember that economy in expenditure is the duty of all, that the amount fixed for each department is the maximum for the year, and that the most satisfactory ending of a committee's work is a balance to its credit. Acting in line with these suggestions, you will have nothing to regret, and the public much to applaud, when your official term shall end.

REPORT
OF THE
TREASURER AND COLLECTOR OF TAXES.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1892.

Referred to committee on finance, and sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, January 27, 1892.

Referred to committee on finance in concurrence.

WILLIAM P. MITCHELL, *Clerk pro tem*.

IN COMMITTEE ON FINANCE, February 11, 1892.

To the City Council of Somerville: The annual report of the treasurer and collector of taxes having been referred to this committee, the committee reports that, in conjunction with the city auditor, and in compliance with the provisions of ordinance, it has examined said report and the books and vouchers of the treasurer and collector of taxes, making comparisons with the books of the auditor and with the statements received from the several committees, boards, and officers of the city, and finds the treasurer and collector's books and accounts, as well as said report, correct, and most methodically and satisfactorily kept and prepared.

We have also verified his cash balance by actual count and inquiries at the banks of deposit, and hereby recommend that his report be accepted and printed in the annual reports.

WM. H. HODGKINS,	} <i>Committee.</i>
FRANK E. FITTS,	
S. WALKER JANES,	
I. H. WILEY,	
FRANKLIN J. HAMBLIN,	
FRANKLIN F. PHILLIPS,	
THOS. S. WENTWORTH,	
LEWIS STOCKBRIDGE,	

IN BOARD OF ALDERMEN, March 8, 1892.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, March 10, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

TREASURER'S OFFICE, January 25, 1892.

To the Honorable the Mayor and City Council of the City of Somerville :

GENTLEMEN,— The undersigned presents herewith the twentieth 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, 1891.

The value of the property of the city December 31, 1890, was \$1,547,167.93. The property acquired during the year was as follows:—

Highland Schoolhouse addition	\$6,129 83
Schoolhouse in Ward Two (Charles G. Pope)	48,603 54
Schoolhouse in Ward Three (Jacob T. Glines)	39,027 68
Water-Works extension	40,708 48
Gravel Land on North street	4,000 00

making the value of the public property December 31, 1891, as per Table A, \$1,685,637.46.

The funded debt of the city December 31, 1890, as per Table B of the last annual report, was \$1,057,500 00

Water Loan Bond No. 280	\$1,000 00
“ “ “ No. 306 to 308	3,000 00
“ “ “ No. 393 to 394	2,000 00
City Loan Bonds No. 647 to 720	74,000 00
“ “ “ No. 919 to 923	5,000 00
“ “ “ No. 1,003 to 1,012,	10,000 00
“ “ “ No. 1,103 to 1,106,	4,000 00

amounting to \$99,000 00
 became due during the year. Of this amount \$57,000
 was paid, and \$42,000 renewed, making a reduction of \$57,000 00

and leaving the total amount of funded debt \$1,000,500 00

Amount carried forward, \$1,000,500 00

Amount brought forward \$1,000,500 00

The debt was increased during the year by appropriations as follows: For the completion of the Charles G. Pope schoolhouse, \$14,000.00; for the completion of the Jacob T. Glines schoolhouse, \$12,000.00; for the completion of the Highland schoolhouse addition, \$5,000.00; for the extension and improvement of the water works, \$10,000.00; and for the purchase of gravel land on North street, \$4,000.00; making the total appropriations provided for by borrowing on funded debt account 45,000 00

making the net funded debt December 31, 1891, as per Table B \$1,045,500 00

The following bonds, bearing interest at four per cent., have been issued during the year:—

City Loan Bonds Nos. 1,142 to 1,146, and Water Loan Bonds Nos. 448 to 449, amounting to \$7,000.00, to take the place of Water Loan Bonds Nos. 411 to 415, 422 and 425, amounting to \$7,000.00, cancelled.	
City Loan Bonds Nos. 1,147 to 1,202, \$1,000.00 each, \$7,000.00 payable annually, 1892 to 1899	\$56,000 00
City Loan Bonds Nos. 1,203 to 1,208, \$1,000.00 each, payable 1900	6,000 00
City Loan Bonds Nos. 1,209 to 1,223, \$1,000.00 each, \$3,000.00 payable annually, 1901 to 1905	15,000 00
Water Loan Bonds Nos. 450 to 459, \$1,000.00 each, \$2,000.00 payable annually, 1904 to 1908	10,000 00
Total	\$87,000 00

The current expenses, public improvements, state and county taxes, and debt requirements were provided for by the following

RESOURCES.

Assessors' warrant for the tax levy, assessed upon the polls and estates of the inhabitants as follows, viz.:—

Real estate, valuation	\$32,767,200 00
Personal property, valuation	4,076,200 00
Total valuation	\$36,843,400 00

At a rate of \$14.00 on \$1,000 valuation, with
 9,139 single polls,
 2,519 property polls.

11,658 polls at \$2.00 each, and 7 (women) at \$0.50 each, gives the total amount of the tax levy	\$539,127 10
Borrowed on funded debt account to provide for the cost of public improvements, etc.	45,000 00
Received of City of Boston for return on water rates	60,150 80
Received from various sources	63,734 72
Unexpended balances of 1890	62,605 16
<hr/>	
Total amount of resources for the year ending December 31, 1891	\$770,617 78

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

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Fire Department:—			
Appropriation	\$32,000 00		
Received for old materials, etc.		\$62 27	
Expenditures			\$36,105 87
Deficiency			4,043 60
Health Department:—			
Appropriation	7,000 00		
Received for permits, licenses, etc.		243 00	
Expenditures			7,352 23
Deficiency			109 23
Highland Schoolhouse Addition:—			
Unexpended balance from 1890		1,209 06	
Appropriation, Funded Debt Acct.	5,000 00		
Expenditures			5,891 03
Unexpended balance to 1892			318 03
Highways:—			
Appropriation	45,000 00		
Received for labor and materials		9,440 07	
Expenditures			54,609 02
Deficiency			168 95

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Indigent Soldiers and Sailors :—			
Appropriation	\$500 00		
Received from State of Massachusetts		\$430 50	
Expenditures			\$861 00
Unexpended balance			69 50
Interest :—			
Appropriation	55,000 00		
Received interest, corporation and bank taxes, etc.		29,935 88	
Expenditures			59,871 25
Unexpended balance			25,064 63
Miscellaneous :—			
Appropriation	6,500 00		
Received for costs on taxes, licenses, etc.		2,989 68	
Expenditures			9,250 89
Unexpended balance			238 79
Ordinances, Revising :—			
Appropriation	500 00		
Expenditures			460 00
Unexpended balance			40 00
Police :—			
Appropriation	20,000 00		
Received for court fees, fines, etc.		4,912 81	
Expenditures			36,677 32
Deficiency			11,764 51
Police Station Incidentals :—			
Appropriation	2,500 00		
Received for rent		445 00	
Expenditures			2,889 23
Unexpended balance			55 77
Public Library :—			
Appropriation	3,000 00		
Received for dog licenses, etc.		3,115 11	
Expenditures			6,111 63
Unexpended balance to 1892			3 48
Public Grounds :—			
Appropriation	3,500 00		
Expenditures			2,947 03
Unexpended balance			552 97

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Printing and Stationery : —			
Appropriation	\$6,000 00		
Expenditures			\$5,166 14
Unexpended balance			833 86
Reduction of Funded Debt : —			
Appropriation	57,000 00		
Expenditure			57,000 00
Relief and Burial of Indigent Soldiers and Sailors : —			
Appropriation	3,000 00		
Received from State of Massachusetts		\$35 00	
Expenditures			3,421 96
Deficiency			386 96
Salaries : —			
Appropriation	28,200 00		
Expenditures			27,881 53
Unexpended balance			318 47
School Contingent : —			
Appropriation	21,000 00		
Received for tuition of non-resident pupils, etc.		76 55	
Expenditures			26,939 25
Deficiency			5,862 70
School Fuel : —			
Appropriation	7,500 00		
Expenditures			8,031 93
Deficiency			531 93
Schoolhouse Incidentals : —			
Appropriation	13,550 00		
Received for old materials, etc.		53 13	
Expenditures			14,847 16
Deficiency			1,244 03
School Teachers' Salaries : —			
Appropriation	102,000 00		
Expenditures			110,615 92
Deficiency			8,615 92
Sewers : —			
Appropriation	10,000 00		
Received for permits, etc.		425 88	
Expenditures			11,651 83
Deficiency			1,225 95

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Sidewalks :—			
Appropriation	\$10,000 00		
Expenditures			\$10,000 00
Street Lights :—			
Appropriation	22,500 00		
Expenditures			22,282 24
Unexpended balance			217 76
Support of Poor :—			
Appropriation	14,000 00		
Received for aid furnished		\$2,168 94	
Expenditures			15,980 49
Unexpended balance			188 45
Schoolhouse in Ward Two :—			
Balance from 1890		600 00	
Unexpended balance to 1892			600 00
Schoolhouse in Ward Two, Prospect Hill District :—			
Balance from 1890		33,712 32	
Appropriation, Funded Debt acct.	14,000 00		
Expenditures			46,856 06
Unexpended balance to 1892			856 26
Schoolhouse in Ward Three :—			
Balance from 1890		26,819 98	
Appropriation, Funded Debt acct.	12,000 00		
Expenditures			38,046 11
Unexpended balance to 1892			773 87
Watering Streets :—			
Appropriation	4,000 00		
Received from abutters, etc.		6,914 79	
Expenditures			12,116 22
Deficiency			1,201 43
Water Maintenance :—			
Received from Water Rates acct.		20,000 00	
Received for labor and materials,		1,978 20	
Received from Water Service acct.		309 99	
Expenditures			21,688 61
Unexpended balance to 1892			599 58
Water Works Extension :—			
Appropriation, Funded Debt acct.	10,000 00		
Received from Water Rates acct.		35,000 00	
Received for labor and materials,		461 72	
Expenditures			41,038 31
Unexpended balance to 1892			4,423 41

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Water Loan Interest : —			
Received from Water Rates		\$5,150 80	
Unexpended balance to 1892			\$5,150 80
Gravel Land on North Street : —			
Appropriation, Funded Debt acct.	\$4,000 00		
Expended			4,000 00
County of Middlesex : —			
Appropriation	22,188 84		
Expended (County tax)			22,188 84
State of Massachusetts : —			
Appropriation	20,670 00		
Expended (State tax)			20,670 00
Overlay and Abatement : —			
Appropriation \$22,018 26			
Transferred to Excess and Deficiency acct.		7,575 01	
	14,443 25		
Applied and to be applied to abatements on taxes			14,443 25
Excess and Deficiency : —			
Transferred from Overlay and Abatement account to provide for accounts overdrawn	7,575 01		
	\$584,127 10	\$186,490 68	\$770,617 78
Credits from various sources	186,490 68		
	\$770,617 78		\$770,617 78

RECAPITULATION.

Appropriations as per tax levy	\$539,127 10		
Appropriations as per Funded Debt account	45,000 00		
Received from the City of Boston (water rates)	60,150 80		
Received from various sources	63,734 72		
Balances from 1890	62,605 16		
Expenditures			\$757,892 35
Balances to be expended in 1892			12,725 43
	\$770,617 78		\$770,617 78

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

Taxes	\$205,827 26
Real-estate liens	888 40
State of Massachusetts, State aid	5,480 00
State of Massachusetts, indigent soldiers and sailors, State of Massachusetts, burial of indigent soldiers and sailors	418 50
Sidewalk assessments	87 50
Sewer assessments	3,585 43
Water-service assessments	8,172 53
Cash	2,638 95
	37,007 03
	<hr/>
Total amount of available assets	\$264,105 60
	<hr/> <hr/>

The liabilities are : —

Temporary loans	\$238,000 00
Overlay and abatement	13,115 44
Overplus on tax sales	102 13
Sundry persons	162 60
Schoolhouse in Ward Two	600 00
Schoolhouse in Ward Two, Prospect Hill District	856 26
Schoolhouse in Ward Three	773 87
Water maintenance	599 58
Water-works extension	4,423 41
Water loan interest	5,150 80
Highland Schoolhouse addition	318 03
Public Library	3 48
	<hr/>
Total amount of unfunded liabilities	\$264,105 60
	<hr/> <hr/>

The financial condition of the city, exclusive of its public property, is as follows : —

Funded debt, city loan	\$670,000 00
Funded debt, water loan	375,500 00
	<hr/>
Net indebtedness December 31, 1891	\$1,045,500 00

Total cash receipts for the year, including a balance	
of \$20,285.15 from the year 1890 ¹	\$1,556,529 62
Total cash disbursements	1,519,522 59
	<hr/>
Leaving in the treasury the sum of	\$37,007 03

In consequence of the failure of the Maverick National Bank, the sum of \$135,246.44, which was on deposit at that time, was rendered unavailable for the payment of current expenses, and the city, availing itself of the accommodation offered by the National Security Bank to furnish all the money it required, was, at the end of the year, indebted to said bank to the amount of \$101,520.33. To provide for the payment of this sum, city loan bonds, dated January 1, 1892, bearing interest at 4 per cent., amounting to \$100,000.00, were issued, and will appear in the funded debt account of 1892. The sum of \$1,223.53 on deposit in the Monument National Bank, and \$1,957.39 in cash on hand, accounts for the balance of \$37,007.03 in the treasury December 31, 1891.

A detailed statement of the public property, funded debt, and the receipts and disbursements of the various accounts will appear in the appendix.

Respectfully submitted,

JOHN F. COLE,

Treasurer.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.

PUBLIC PROPERTY, DEC. 31, 1891.

Central Hill land (12 acres, 27,920 feet)		\$100,000 00
City Hall	\$10,000 00	
Furniture	3,000 00	
	<hr/>	13,000 00
Public Library		8,500 00
Public Library building		28,338 45
Steam fire-engine house	\$10,000 00	
Furniture	500 00	
Steam fire-engine and apparatus	4,000 00	
Steam fire-engine, hose carriage, and apparatus	2,000 00	
	<hr/>	16,500 00
High Schoolhouse	\$40,000 00	
Furniture	3,500 00	
Philosophical apparatus	500 00	
	<hr/>	44,000 00
Prescott Schoolhouse, land (21,444 feet) and building	\$40,000 00	
Furniture	2,000 00	
	<hr/>	42,000 00
Luther V. Bell Schoolhouse, land (23,396 feet) and building	\$40,000 00	
Furniture	3,000 00	
	<hr/>	43,000 00
<i>Amount carried forward</i>		<hr/> <hr/> \$295,338 45

<i>Amount brought forward</i>		\$295,338 45	
Forster Schoolhouse, land (27,499 feet)			
and building	\$37,922 24		
Furniture	1,500 00		
			<u>39,422 24</u>
Morse Schoolhouse, land (29,109 feet)			
and building	\$56,334 95		
Furniture	1,696 52		
			<u>58,031 47</u>
Highland Schoolhouse, land (23,260 feet) and building	\$51,681 97		
Furniture	1,624 60		
			<u>53,306 57</u>
Lincoln Schoolhouse, land (17,662 feet) and building	\$14,742 17		
Furniture	744 93		
			<u>15,487 10</u>
Prospect Hill Schoolhouse, land (25,313 feet) and building	\$20,000 00		
Furniture	600 00		
			<u>20,600 00</u>
Jackson Schoolhouse, land (11,212 feet) and building	\$8,000 00		
Furniture	300 00		
			<u>8,300 00</u>
Bennett Schoolhouse, land (20,560 feet) and building	\$8,000 00		
Furniture	300 00		
			<u>8,300 00</u>
Webster Schoolhouse, land (11,050 feet) and building	\$8,000 00		
Furniture	300 00		
			<u>8,300 00</u>
Union Schoolhouse, land (9,360 feet) and building	\$2,500 00		
Furniture	100 00		
			<u>2,600 00</u>
<i>Amount carried forward</i>		\$509,685 83	

<i>Amount brought forward</i>		\$509,685 83
Harvard Schoolhouse, land (9,810 feet) and building	\$2,500 00	
Furniture	100 00	
		<u>2,600 00</u>
Edgerly Schoolhouse, land (26,428 feet) and building	\$42,000 00	
Furniture	1,100 00	
		<u>43,100 00</u>
Brastow Schoolhouse, land (10,019 feet) and building	\$6,000 00	
Furniture	250 00	
		<u>6,250 00</u>
Franklin Schoolhouse, land (33,017 feet) and building	\$14,000 00	
Furniture	300 00	
		<u>14,300 00</u>
Beach-street Schoolhouse, land (6,000 feet) and building	\$4,500 00	
Furniture	250 00	
		<u>4,750 00</u>
Spring Hill Schoolhouse, land (4,991 feet) and building	\$1,600 00	
Furniture	100 00	
		<u>1,700 00</u>
Davis Schoolhouse, Tufts street, land (29,584 feet) and building	\$17,606 22	
Furniture	726 99	
		<u>18,333 21</u>
Cummings Schoolhouse, School street, land (11,300 feet) and building,	\$14,643 21	
Furniture	714 16	
		<u>15,357 37</u>
Bingham Schoolhouse, Lowell street, land (21,017 feet) and building,	\$14,553 56	
Furniture	551 33	
		<u>15,104 89</u>
<i>Amount carried forward</i>		<u>\$631,181 30</u>

<i>Amount brought forward</i>		\$631,181 30	
Burns Schoolhouse, Cherry street, land (16,080 feet) and building	\$14,662 40		
Furniture	587 12		
	<hr/>		15,249 52
O. S. Knapp Schoolhouse, Concord square, land (24,517 feet) and building	\$31,851 81		
Furniture	1,123 08		
	<hr/>		32,974 89
Charles G. Pope Schoolhouse, Washing- ton street, land (27,236 feet) and building	\$63,143 74		
Furniture	1,747 48		
	<hr/>		64,891 22
Jacob T. Glines Schoolhouse, Jaques street, land (28,800 feet) and building	\$46,226 13		
Furniture	981 57		
	<hr/>		47,207 70
City Farm, land (10 acres, 12,523 feet)			30,000 00
Cedar-street Schoolhouse	\$700 00		
Furniture	100 00		
	<hr/>		800 00
City stables and dwelling-houses			7,000 00
Equipments for highway repairs			7,750 00
Watering-carts and sheds			2,300 00
No. 1 Hose-house, land (4,312 feet) and building	\$2,300 00		
Furniture	400 00		
John E. Wool hose carriage and apparatus	2,000 00		
	<hr/>		4,700 00
No. 2 Hose-house, land (5,400 feet) and building	\$7,500 00		
Furniture	300 00		
Winter Hill hose carriage and ap- paratus	2,000 00		
	<hr/>		9,800 00
<i>Amount carried forward</i>			<hr/> \$853,854 63

<i>Amount brought forward</i>		\$853,854 63
No. 3 Hose-house, land (5,226 feet) and building	\$9,000 00	
Furniture	300 00	
George H. Foster hose carriage and apparatus	2,000 00	
R. A. Vinal hook-and-ladder truck and apparatus	3,400 00	
Prescott hook-and-ladder truck and apparatus	100 00	
	<hr/>	14,800 00
No. 4 Hose-house, land (9,100 feet) and building	\$11,000 00	
Furniture	400 00	
George O. Brastow hose carriage and apparatus	2,000 00	
Relief hose carriage	600 00	
	<hr/>	14,000 00
Steam fire-engine and equipment		4,515 00
No. 5 Hose-house, land (39,456 feet) and building	\$16,113 68	
Furniture and apparatus	2,630 94	
	<hr/>	18,744 62
Fire-alarm telegraph		15,800 00
Police-station, land (15,232 feet) and building (Bow street)	\$40,000 00	
Furniture	3,000 00	
	<hr/>	43,000 00
Police stable		3,858 35
Prospect street, land (7,918 feet) and building		7,000 00
Public Park (cost \$212,993.20)		125,000 00
Joy street, land (2,960 feet)		500 00
Walnut street, land (10,980 feet)		1,000 00
Elm street, land (18,000 feet)		3,600 00
Holland street (5 acres, 6,806 feet)		12,000 00
Gravel-land in Waltham (about 35 acres)		15,000 00
Gravel-land in Wakefield (about 1½ acres)		5,000 00
Gravel-land in Winchester (about 2 acres)		500 00
Gravel-land on North street		4,000 00
	<hr/>	
<i>Amount carried forward</i>		\$1,142,172 60

<i>Amount brought forward</i>	\$1,142,172 60
Somerville water-works (cost \$537,185.35)	535,576 59
Oliver street, land (63,069 feet)	7,500 00
Whipple street, land, lots Nos. 30 and 31 (15,240 feet),	388 27
	<hr/>
Total value of public property	\$1,685,637 46

TABLE B.
FUNDED DEBT DECEMBER 31, 1891.

CITY LOAN BONDS.

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
October 1, 1884.	721 to 798	4	Oct. 1, 1892.	\$1,000	\$78,000
October 1, 1889.	924 to 928	4	Oct. 1, 1892.	1,000	5,000
October 1, 1890.	1,013 to 1,022	4	Oct. 1, 1892.	1,000	10,000
October 1, 1890.	1,107 to 1,110	4	Oct. 1, 1892.	1,000	4,000
October 1, 1891.	1,147 to 1,153	4	Oct. 1, 1892.	1,000	7,000
July 1, 1885.	856 to 880	4	July 1, 1893.	1,000	25,000
October 1, 1884.	799 to 852	4	Oct. 1, 1893.	1,000	54,000
October 1, 1889.	929 to 933	4	Oct. 1, 1893.	1,000	5,000
October 1, 1890.	1,023 to 1,032	4	Oct. 1, 1893.	1,000	10,000
October 1, 1890.	1,111 to 1,114	4	Oct. 1, 1893.	1,000	4,000
October 1, 1891.	1,154 to 1,160	4	Oct. 1, 1893.	1,000	7,000
July 1, 1888.	887 to 909	4	July 1, 1894.	1,000	23,000
October 1, 1889.	934 to 938	4	Oct. 1, 1894.	1,000	5,000
October 1, 1890.	1,033 to 1,042	4	Oct. 1, 1894.	1,000	10,000
October 1, 1890.	1,115 to 1,118	4	Oct. 1, 1894.	1,000	4,000
October 1, 1891.	1,161 to 1,167	4	Oct. 1, 1894.	1,000	7,000
October 1, 1876.	190 to 194	5	Oct. 1, 1895.	1,000	25,000
October 1, 1876.	195 to 334	5	Oct. 1, 1895.	4,000	140,000
October 1, 1889.	939 to 943	4	Oct. 1, 1895.	1,000	5,000
October 1, 1890.	1,043 to 1,052	4	Oct. 1, 1895.	1,000	10,000
October 1, 1890.	1,119 to 1,122	4	Oct. 1, 1895.	1,000	4,000
October 1, 1891.	1,168 to 1,174	4	Oct. 1, 1895.	1,000	7,000
<i>Amount</i>	<i>carried forward</i>	. . .	. . . . .	. . . . .	\$449,000

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

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
<i>Amount brought forward</i>					\$449,000
October 1, 1889.	944 to 948	4	Oct. 1, 1896.	\$1,000	5,000
October 1, 1890.	1,053 to 1,062	4	Oct. 1, 1896.	1,000	10,000
October 1, 1890.	1,123 to 1,126	4	Oct. 1, 1896.	1,000	4,000
October 1, 1891.	1,175 to 1,181	4	Oct. 1, 1896.	1,000	7,000
July 1, 1888.	910 to 913	4	July 1, 1897.	1,000	4,000
October 1, 1889.	949 to 969	4	Oct. 1, 1897.	1,000	21,000
October 1, 1890.	1,063 to 1,072	4	Oct. 1, 1897.	1,000	10,000
October 1, 1890.	1,127 to 1,130	4	Oct. 1, 1897.	1,000	4,000
October 1, 1891.	1,182 to 1,188	4	Oct. 1, 1897.	1,000	7,000
October 1, 1889.	970 to 993	4	Oct. 1, 1898.	1,000	24,000
October 1, 1890.	1,073 to 1,082	4	Oct. 1, 1898.	1,000	10,000
October 1, 1890.	1,131 to 1,134	4	Oct. 1, 1898.	1,000	4,000
October 1, 1891.	1,189 to 1,195	4	Oct. 1, 1898.	1,000	7,000
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, 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, 1890.	1,143 to 1,146	4	Oct. 1, 1901.	1,000	4,000
October 1, 1891.	1,209 to 1,211	4	Oct. 1, 1901.	1,000	3,000
October 1, 1891.	1,212 to 1,214	4	Oct. 1, 1902.	1,000	3,000
October 1, 1891.	1,215 to 1,217	4	Oct. 1, 1903.	1,000	3,000
October 1, 1891.	1,218 to 1,220	4	Oct. 1, 1904.	1,000	3,000
October 1, 1891.	1,221 to 1,223	4	Oct. 1, 1905.	1,000	3,000
<i>Total</i>	<i>amount of City</i>	<i>Loan</i>	<i>Bonds</i>		\$635,000

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

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1876.	1 to 7	5	July 1, 1896.	\$5,000	\$35,000

WATER LOAN BONDS.

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
January 1, 1881.	66 to 76	5	Jan. 1, 1892.	\$1,000	\$11,000
July 1, 1888.	281	4	July 1, 1892.	1,000	1,000
October 1, 1881.	78 to 88	5	Oct. 1, 1892.	1,000	11,000
October 1, 1889.	309 to 311	4	Oct. 1, 1892.	1,000	3,000
October 1, 1890.	395 to 396	4	Oct. 1, 1892.	1,000	2,000
July 1, 1888.	282	4	July 1, 1893.	1,000	1,000
October 1, 1885.	89 to 99	5	Oct. 1, 1893.	1,000	11,000
October 1, 1889.	312 to 314	4	Oct. 1, 1893.	1,000	3,000
October 1, 1890.	397 to 398	4	Oct. 1, 1893.	1,000	2,000
July 1, 1888.	283	4	July 1, 1894.	1,000	1,000
October 1, 1881.	100 to 111	5	Oct. 1, 1894.	1,000	12,000
October 1, 1889.	315 to 317	4	Oct. 1, 1894.	1,000	3,000
October 1, 1890.	399 to 400	4	Oct. 1, 1894.	1,000	2,000
July 1, 1888.	284	4	July 1, 1895.	1,000	1,000
July 1, 1882.	112 to 124	5	July 1, 1895.	1,000	13,000
October 1, 1889.	318 to 320	4	Oct. 1, 1895.	1,000	3,000
October 1, 1890.	401 to 402	4	Oct. 1, 1895.	1,000	2,000
July 1, 1882.	125 to 136	5	July 1, 1896.	1,000	12,000
July 1, 1882.	137	5	July 1, 1896.	500	500
July 1, 1888.	285	4	July 1, 1896.	1,000	1,000
October 1, 1889.	321 to 323	4	Oct. 1, 1896.	1,000	3,000
October 1, 1890.	403 to 404	4	Oct. 1, 1896.	1,000	2,000
<i>Amount carried forward</i>					\$100,500

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

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
<i>Amount brought forward</i>		. .	. . . . .	. .	\$100,500
July 1, 1882.	138 to 151	5	July 1, 1897.	\$1,000	14,000
July 1, 1888.	286	4	July 1, 1897.	1,000	1,000
October 1, 1889.	324 to 326	4	Oct. 1, 1897.	1,000	3,000
October 1, 1890.	405 to 406	4	Oct. 1, 1897.	1,000	2,000
July 1, 1882.	152 to 166	5	July 1, 1898.	1,000	15,000
July 1, 1888.	287	4	July 1, 1898.	1,000	1,000
October 1, 1889.	327 to 329	4	Oct. 1, 1898.	1,000	3,000
October 1, 1890.	407 to 408	4	Oct. 1, 1898.	1,000	2,000
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
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
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
July 1, 1888.	290	4	July 1, 1901.	1,000	1,000
October 1, 1884.	203 to 212	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
October 1, 1889.	347 to 348	4	Oct. 1, 1902.	1,000	2,000
<i>Amount carried forward</i>		. .	. . . . .	. . . . .	\$233,500

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

Date.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
<i>Amount brought forward</i>		. .	. . . . .	. . . . .	\$233,500
October 1, 1890.	420 to 421	4	Oct. 1, 1902.	\$1,000	2,000
July 1, 1886.	239 to 256	4	July 1, 1903.	1,000	18,000
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
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
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.	1,000	10,000
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
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
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
<i>Amount carried forward</i>		. .	. . . . .	. . . . .	\$329,500

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

Date.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
<i>Amount</i>	<i>brought forward</i>	. . .	. . . . .	. . . . .	\$329,500
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, 1891.	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
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</i>	<i>amount of Water</i>	<i>Loan</i>	<i>Bonds</i> . . . . .	. . . . .	\$375,500

RECAPITULATION.

City Loan Bonds	\$835,000
Sewer Loan Bonds	35,000
Water Loan Bonds	375,500
	<hr/>
Total amount of funded debt	\$1,045,500

TABLE C.

STATEMENT OF ACCOUNTS SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO DEC. 31, 1891.

APPROPRIATIONS.

	CREDIT.	
Taxes, amount assessed	\$474,250 00	
Property and debt balance	87,000 00	
	<hr/>	
	\$561,250 00	
		DEBIT.
Fire Department		\$32,000 00
Gravel-land on North street		4,000 00
Health Department		7,000 00
Highland Schoolhouse addition		5,000 00
Highways		45,000 00
Indigent Soldiers and Sailors		500 00
Interest		55,000 00
Miscellaneous		6,500 00
Ordinances (revising)		500 00
Police		20,000 00
Police Station Incidentals		2,500 00
Public Library		3,000 00
Public Grounds		3,500 00
Printing and Stationery		6,000 00
Reduction of Funded Debt		57,000 00
Renewals of Funded Debt		42,000 00
Relief and Burial of Indigent Soldiers and Sailors		3,000 00
Salaries		28,200 00
		<hr/>
<i>Amounts carried forward</i>	\$320,700 00	\$561,250 00

<i>Amounts brought forward</i>	\$320,700 00	\$561,250 00
School Contingent	21,000 00	
School Fuel	7,500 00	
Schoolhouse Incidentals	13,550 00	
School Teachers' Salaries	102,000 00	
Sewers	10,000 00	
Sidewalks	10,000 00	
Street Lights	22,500 00	
Support of Poor	14,000 00	
Schoolhouse in Ward Two, Prospect Hill District	14,000 00	
Schoolhouse in Ward Three	12,000 00	
Watering Streets	4,000 00	
Water-works Extension	10,000 00	
		<u>\$561,250 00</u>

CASH.

CREDIT.

County of Middlesex	\$22,188 84
Funded Debt	99,000 00
Fire Department	36,105 87
Gravel-land on North street	4,000 00
Health Department	7,352 23
Highways	54,609 02
Highland Schoolhouse addition	5,891 03
Indigent Soldiers and Sailors	877 00
Interest	59,743 75
Miscellaneous	9,250 89
Ordinances (revising)	460 00
Police	36,677 32
Police Station Incidentals	2,889 23
Public Library	6,111 63
Public Grounds	2,954 90
Printing and Stationery	5,174 64
Relief and Burial of Indigent Soldiers and Sailors	3,421 96
<i>Amount carried forward</i>	<u>\$356,708 31</u>

<i>Amount brought forward</i>	\$356,708 31	
Sundry Persons	337 50	
State Aid	5,622 00	
Salaries	27,881 53	
School Contingent	26,939 25	
School Fuel	8,031 93	
Schoolhouse Incidentals	14,847 16	
School Teachers' Salaries	110,624 67	
Schoolhouse in Ward Two, Prospect Hill District	46,856 06	
Schoolhouse in Ward Three	38,046 11	
Sewers	22,319 68	
Sidewalks	20,035 11	
Street Lights	22,282 24	
Support of Poor	15,980 49	
State of Massachusetts	20,670 00	
Temporary Loans	698,000 00	
Watering Streets	12,116 22	
Water Maintenance	21,688 61	
Water Services	9,497 41	
Water-works Extension	41,038 31	
Balance to debit in account 1892	37,007 03	
	<hr/>	\$1,556,529 62

DEBIT.

Balance from 1890	\$20,285 15	
Fire Department	62 27	
Funded Debt	87,000 00	
Health Department	243 00	
Highways	9,440 07	
City of Boston, water rates	60,150 80	
City and Water Loan Bonds	194,000 00	
Interest	29,839 10	
Indigent Soldiers and Sailors	16 00	
Miscellaneous	2,982 23	
Police	4,912 81	
Police Station Incidentals	445 00	
	<hr/>	
<i>Amounts carried forward</i>	\$409,376 43	\$1,556,529 62

<i>Amounts brought forward</i>	\$409,376 43	\$1,556,529 62
Public Library	2,983 20	
Public Grounds	7 87	
Printing and Stationery	8 50	
State Aid	26 00	
School Teachers' Salaries	8 75	
School Contingent	76 55	
Schoolhouse Incidentals	53 13	
Sewers	425 88	
Sewer Assessments	8,697 69	
Sidewalk Assessments	10,997 92	
Support of Poor	2,168 94	
State of Massachusetts, State Aid	5,035 50	
State of Massachusetts, Indigent Soldiers and Sailors	661 00	
State of Massachusetts, Burial of In- digent Soldiers and Sailors	17 50	
Taxes	484,397 04	
Temporary Loans	613,000 00	
Watering Streets	6,914 79	
Water Maintenance	1,978 20	
Water Services	326 61	
Water Service Assessments	9,038 29	
Water-works Extension	329 83	
	\$1,556,529 62	

COUNTY OF MIDDLESEX.

CREDIT.

Taxes, amount assessed	\$22,188 ² / ₁₀₀ 84
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DEBIT.

Cash, paid county tax	\$22,188 84
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CITY AND WATER LOAN BONDS.

CREDIT.

Cash, received from sale of City Loan Bonds	\$139,000 00	
Water Loan Bonds	55,000 00	
	\$194,000 00	

DEBIT.

Balance, from 1891	\$194,000 00
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CITY OF BOSTON, WATER RATES.

CREDIT.

Cash, received of City of Boston return on water rates, 50 per cent. of \$120,301.60	\$60,150 80
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DEBIT.

Water Maintenance, transferred	\$20,000 00	
Water-works extension, "	35,000 00	
Water Loan Interest, "	5,150 80	
	-----	<u>\$60,150 80</u>

EXCESS AND DEFICIENCY.

CREDIT.

Indigent Soldiers and Sailors, credit balance of account	\$69 50	
Interest, credit balance of account	25,064 63	
Miscellaneous, credit balance of account	238 79	
Ordinances (revising), credit balance of account	40 00	
Police Station Incidentals, credit balance of account	55 77	
Public Grounds, credit balance of account	552 97	
Printing and Stationery, credit balance of account	833 86	
Salaries, credit balance of account	318 47	
Street Lights, credit balance of account	217 76	
Support of Poor, credit balance of account	188 45	
Overlay and Abatement, transferred	7,575 01	
	-----	<u>\$35,155 21</u>
<i>Amount carried forward</i>		<u>\$35,155 21</u>

Amount brought forward \$35,155 21

DEBIT.

Fire Department, debit balance of account	\$4,043 60	
Health Department, debit balance of account	109 23	
Highways, debit balance of account	168 95	
Police, debit balance of account	11,764 51	
Relief and Burial of Indigent Soldiers and Sailors, debit balance of account	386 96	
School Contingent, debit balance of account	5,862 70	
School Fuel, debit balance of account, Schoolhouse Incidentals, debit balance of account	531 93	
School Teachers' Salaries, debit balance of account	1,244 03	
Sewers, debit balance of account	8,615 92	
Watering Streets, debit balance of account	1,225 95	
	1,201 43	
	<u> </u>	<u>\$35,155 21</u>

FUNDED DEBT.

CREDIT.

Balance from 1891		\$1,057,500 00
Cash, received from sale of City Loan Bonds Nos. 1,147 to 1,223	\$77,000 00	
Water Loan Bonds Nos. 450 to 459	10,000 00	
	<u> </u>	87,000 00
		<u>\$1,144,500 00</u>

DEBIT.

Cash, paid sundry persons:—		
City Loan Bonds Nos. 647 to 720	\$74,000 00	
	<u> </u>	<u>\$1,144,500 00</u>
<i>Amounts carried forward</i>	\$74,000 00	\$1,144,500 00

<i>Amounts brought forward</i>	\$74,000 00	\$1,144,500 00
City Loan Bonds Nos. 919 to 923	5,000 00	
City Loan Bonds Nos. 1,003 to 1,012	10,000 00	
City Loan Bonds Nos. 1,103 to 1,106	4,000 00	
Water Loan Bond No. 280	1,000 00	
Water Loan Bonds Nos. 306 to 308	3,000 00	
Water Loan Bonds Nos. 393 to 394	2,000 00	
	<hr/>	
	\$99,000 00	
Balance to debit in account 1892	1,045,500 00	
		<hr/> <hr/>
		\$1,144,500 00

GRAVEL LAND ON NORTH STREET.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$4,000 00
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DEBIT.

Cash, paid Highways account, about 5.43 acres land on North street	<hr/> <hr/>
	\$4,000 00

FIRE DEPARTMENT.

CREDIT.

Appropriations, amount assessed	\$32,000 00
Cash, received of Lorenzo W. Dow, manure	\$54 00
Charles R. Simpson, discount on bill	6 00
Howe & Flint, discount on bill, <hr/>	2 27
Excess and Deficiency, balance to debit of account	62 27
	<hr/>
	4,043 60

Amount carried forward \$36,105 87

Amount brought forward \$36,105 87

DEBIT.

Cash, paid James R. Hopkins, chief engineer	\$1,400 04
Nathaniel C. Barker, assistant engineer	300 00
Two steamer engineers	2,160 00
One fireman	900 00
Seven drivers, five months	2,625 00
Ten drivers, seven months	5,250 00
William F. Perry, substitute driver	375 00
Frank A. Hersey, substitute driver	102 74
John Gillooly, substitute driver, Benjamin L. Daley, substitute driver	375 00
Charles H. Stearns, substitute driver	309 51
Frank L. Draper, substitute driver	375 00
C. P. Horton, substitute driver, Teaming and pipe	145 00
Edgar F. Shaw, substitute driver, Oscar F. Sheltus, substitute driver	33 87
John A. Shannon, services as engineer	8 75
M. R. Ricker, services as foreman	35 00
S. H. Stevens, fines	35 00
Steamer Co. No. 1, callmen	10 00
Steamer Co. No. 4, callmen	5 25
Hose Co. No. 1, callmen	7 50
Hose Co. No. 2, callmen	873 09
Hose Co. No. 3, callmen	865 58
Hose Co. No. 5, callmen	786 00
	738 50
	738 50
	691 00

Amounts carried forward \$19,145 33 \$36,105 87

<i>Amounts brought forward</i>	\$19,145 33	\$36,105 87
Hook and Ladder Co. No. 1, callmen	1,327 01	
Steamer Co. No. 1, Waltham, services rendered	20 00	
H. L. Bixby, use of horse	27 00	
Philip McGovern, use of horse	11 00	
Edward T. Backus, lineman	900 00	
Thomas Groom, stationery	14 50	
Somerville Journal Co., printing,	34 00	
Crane & Woods, premium of ins.	15 00	
Delaware Mutual Safety Ins. Co., premium of insurance	75 00	
D. W. Bennett & Co., premium of insurance	48 75	
Boston & Albany R. R., freight,	32 00	
N. C. Barker, telegrams, etc.	10 43	
H. D. & W. S. Durgin, ice	37 00	
Winter Hill Ice Co., ice	6 00	
Jordan, Marsh, & Co., sheets	6 56	
J. S. Merrill & Co., window shades	21 70	
J. Q. Twombly, painting	12 16	
W. S. Walker, painting	3 10	
W. J. Logan, glazing	1 00	
J. F. Burton, glazing	1 50	
S. W. Fuller, lumber	52 95	
John F. Ayer & Co., lumber	19 16	
A. Caswell, carpentering	86 00	
G. T. Burnham, carpentering	84 26	
Abbott Bros., carpentering	5 63	
F. C. Fuller & Co., carpentering and hardware	6 68	
Thomas Farnham, mason work,	40 73	
J. M. Burckes, mason work	101 56	
D. P. Bucknam, mason work	11 19	
W. F. Blanchard, mail box	1 75	
<i>Amounts carried forward</i>	\$22,158 95	\$36,105 87

<i>Amounts brought forward</i> . . .	\$22,158 95	\$36,105 87
Star Brass Manfg. Co., gauge, etc.	16 00	
Silsby Manfg. Co., repairs on steamer, etc.	1,642 19	
J. Hinman & Son, extinguishers	42 00	
S. M. Spencer, stencils	2 50	
George L. Baxter, lighters	5 00	
Parker & Field, grate	4 75	
Roberts Iron Works Co., repairing heater	7 73	
A. A. Sanborn, steam fitting	25 05	
Miller & Shaw, repairing steamer	89 32	
Cochran Chemical Co., vitriol	2 59	
E. & F. King & Co., vitriol	108 83	
Boston Chemical Co., disinfectant	4 00	
Oscar F. Howe, brushes	49 75	
Dover Stamping Co., ash barrels	5 75	
Young & Maynard, plumbing	9 63	
H. W. Cowell, plumbing	28 85	
James F. Davlin, plumbing	4 75	
Peter Forg, labor on wheel	4 75	
A. W. Mitchell, stamp, badges, etc.	16 65	
Boston Woven Hose Co., hose, etc.	311 20	
T. F. Gearty, harness work	3 00	
C. Callahan, hose, etc.	1,077 70	
W. T. Henderson, repairing wagon	77 75	
E. Teel & Co., wagon, etc.	128 25	
F. H. Flagg, repairing wagon	13 60	
F. W. Leavitt, repairing apparatus	118 90	
<i>Amounts carried forward</i> . . .	\$25,959 44	\$36,105 87

<i>Amounts brought forward</i>	\$25,959 44	\$36,105 87
I. H. Brown & Co., carpenter work	72 98	
Elijah Walker, carpenter work	189 64	
W. A. Snow & Co., iron floors	27 00	
Frank W. Leavitt, sleigh	22 00	
Pettingell, Andrews, & Co., wire	9 95	
James Bartley, oil, etc.	6 07	
William F. Nye, harness dressing	7 00	
George F. Roach, chairs	12 50	
New England Gamewell Co., electrical supplies	504 47	
Union Glass Co., jars	9 70	
W. J. Blaisdell, painting	41 00	
C. Hunter, carpenter work	267 50	
Whitney & Snow, hardware	1 15	
H. W. Burgess, oil, etc.	2 95	
S. A. Coombs, stove work	3 50	
Andrew J. Morse & Son, torch and cartridges	16 00	
Harry Hunt, repairing extinguishers	12 00	
F. Ivers & Son, repairing harness	9 50	
C. V. Cook, harness work	3 00	
E. Spalding, harness work	26 60	
Charles E. Berry, harness work	7 00	
D. J. Bennett, harness work	42 05	
Joseph Cogan, harness work	7 50	
McDormand, Warner, & Co., ladders, etc.	9 20	
A. S. Jackson, electrical supplies	135 65	
W. L. Snow, galvanized pipe, etc.	8 60	
H. A. Winship, supplies	2 50	
<i>Amounts carried forward</i>	\$27,416 45	\$36,105 87

<i>Amounts brought forward</i>	\$27,416 45	\$36,105 87
Scoville Manfg. Co., buttons, etc.	10 13	
J. E. Marshall, uniforms	11 25	
C. A. Taylor, insignia	6 75	
J. A. Durell, hardware	14 47	
Dodge, Haley, & Co., hardware,	15 10	
Fuller, Dana, & Fitz, hardware,	21 37	
W. I. Heald, hardware	4 94	
W. E. Plumer & Co., hardware,	47 01	
Charles A. Holmes, hardware	30 00	
W. C. Smith, hardware	10 00	
Howe & Flint, hardware	5 86	
E. Rogers & W. E. Decrow, hardware	9 40	
John L. Crafts, repairing ladder, etc.	32 00	
C. W. H. Moulton & Co., repair- ing ladder	24 00	
Seward Dodge, blacksmithing	147 56	
W. H. Richardson, horseshoe- ing	42 50	
Charles Maguire, horseshoeing	54 45	
C. W. Ingalls, horseshoeing	90 65	
Jacob Woodbury, horseshoeing,	12 00	
Edward O'Brien, horseshoeing,	41 25	
C. F. Scott, horseshoeing	49 33	
Charles L. Underhill, black- smithing	1 25	
George H. Cowdin, drugs	6 50	
H. D. Padelford, drugs	1 65	
Thomas Hollis, drugs, etc.	106 78	
E. F. Chaffee, drugs	3 20	
Charles R. Simpson, veterinary services	60 00	
John G. Lessure, veterinary ser- vices	10 33	
<i>Amounts carried forward</i>	\$28,286 18	\$36,105 87

<i>Amounts brought forward</i>	\$28,286 18	\$36,105 87
Hosmer, Crampton, & Hammond, hay, etc.	277 89	
Fulton O'Brion, hay and straw	257 37	
Plummer & Co., hay	413 78	
Powers & Co., straw	19 10	
A. M. Prescott, hay and grain	286 52	
Nathan Tufts & Son, hay and grain	796 34	
Charlestown Gas Co., gas	158 74	
Cambridge Gas Light Co., gas	474 56	
John P. Squire, oil	15 81	
W. H. Johnson, soap	8 00	
Joseph J. Blevins, roofing	20 19	
L. C. Seavey, roofing	7 02	
City of Boston, water for hydrants	2,898 00	
City of Boston, water for houses,	117 00	
B. F. Wild & Co., fuel	182 73	
L. G. Burnham & Co., fuel	179 18	
H. Wellington & Co., fuel	680 45	
G. M. Winslow & Co., fuel	368 58	
George L. Blackbird, labor	3 75	
J. McCarthy, labor	17 50	
T. F. Crimmings, labor	7 00	
Charles Taylor, labor	5 00	
Wilfred Young, labor	4 00	
Benjamin L. Pond, labor	7 50	
E. H. Bright, watching	2 00	
John Frizzell, watching	2 50	
Martin Lacy, watching	2 00	
Elisha Grant, watching	6 50	
Daniel Crocker, repairing clock,	2 00	
Edwin Prescott, tools	4 65	
Revere Rubber Co., wrenches, etc.	64 75	
Silas D. Carter, refreshments	70 00	
<i>Amounts carried forward</i>	\$35,646 59	\$36,105 87

<i>Amounts brought forward</i>	\$35,646 59	\$36,105 87
J. M. Loring, refreshments	2 15	
P. A. Garvey, refreshments	13 00	
A. F. Landers, refreshments	3 00	
Charles L. Davenport, salt	3 00	
New England Telephone & Telegraph Co., rentals and tolls	119 25	
Somerville Electric Light Co., braces	11 40	
Ray's Laundry, washing	84 19	
J. H. Thompson, carriage hire	32 50	
C. E. Farnham, expressing	41 11	
Glines & Co., expressing	3 00	
E. R. Perham, expressing	6 30	
Thorpe's Express, expressing	10 05	
Woodbridge & Co., expressing	25	
Highways account, driveway	16 20	
Sidewalk Assessments account, sidewalk on Prospect street,	48 03	
J. B. Prescott & Son, zincs	62 40	
S. J. Wood, filing saws	75	
Fitch & Ladd, hay and grain	2 70	
	<hr/>	<u>\$36,105 87</u>

HEALTH DEPARTMENT.

CREDIT.

Appropriations, amount assessed	\$7,000 00
Cash, received of W. P. Mitchell, permits to keep swine and goats and collect grease	243 00
Excess and Deficiency, balance to debit of account	109 23
	<hr/>
	\$7,352 23

DEBIT.

Cash, paid Caleb A. Page, salary as inspector	\$1,000 00
Disbursements	21 45
	<hr/>
<i>Amounts carried forward</i>	\$1,021 45
	<hr/>
	\$7,352 23

<i>Amounts brought forward</i>	\$1,021 45	\$7,352 23
Henry Gray, collecting offal	2,150 20	
Owen Cunningham, collecting ashes	1,559 52	
John F. Elkins, collecting ashes,	2,125 00	
New England Vaccine Co., virus,	17 00	
George H. Cowdin, peppermint tubes	14 05	
C. W. Lerner & Co., disinfec- tant	15 44	
C. H. Crane, sulphur	3 00	
Helotype Printing Co., maps	37 50	
Somerville Journal Co., printing,	20 25	
McDonnell Bros., printing	1 00	
John M. Corse, rent of P. O. box,	1 00	
Thomas N. Hart, rent of P. O. box	3 00	
Thomas Groom & Co., stationery,	8 00	
H. M. Weld & Co., carriage hire,	7 00	
Brown & Smith, carriage hire	10 50	
Howe & Flint, hardware	76 05	
Whitney & Snow, hardware	1 50	
T. M. Drown, services	25 00	
S. F. Coffin, services	6 00	
W. H. Way, services	2 00	
C. A. Southwick, services	4 00	
D. N. Willey, services	1 50	
Robert Chew, labor	65 02	
Edward L. Blackbird, labor	3 00	
James Brotchie, labor	3 50	
M. G. Staples, teaming	1 75	
Sundry persons, burying dead animals	169 00	
	<hr/>	<hr/> <hr/>
		\$7,352 23

HIGHWAYS.

CREDIT.

Appropriations, amount assessed		\$45,000 00
Cash, received of Gravel Land on North Street account, cost of land	\$4,000 00	
Sidewalks account, teaming, ma- terials, etc.	1,135 04	
Teaming	499 69	
Sewers account, bricks	11 25	
Fire Department, driveway	16 20	
William T. Henderson, sidewalk,	205 20	
Mulliken & Moore, sidewalk	65 80	
H. K. Woodward, sidewalk	13 50	
Walter S. Barnes, sidewalk	4 40	
J. M. Woods, sidewalk	122 46	
John L. Ambrose, sidewalk	47 25	
J. A. Litchfield, sidewalk	45 76	
F. W. Tuttle, sidewalk	88 25	
Nathan C. Carey, sidewalk	233 91	
North Packing and Provision Co., sidewalk	1,202 74	
Susan C. Ware, sidewalk	14 03	
Charles May, sidewalk	26 40	
C. E. Rymes, sidewalk	89 60	
James A. Littlefield, sidewalk	44 00	
W. I. Heald, sidewalk	22 22	
C. C. Brady, sidewalk	55 93	
Thomas Fortier <i>et al.</i> , sidewalk,	77 00	
Amanda A. Chandler, sidewalk,	15 84	
J. E. Herrick, sidewalk	57 08	
Charles S. Robinson, sidewalk	25 66	
Suther Blaikie, sidewalk	59 22	
James Garvin, sidewalk	61 97	
Jonathan Stone, sidewalk	48 00	
Lucius Slade, sidewalk	21 03	
Simon White, sidewalk	11 75	
<i>Amounts carried forward</i>	\$8,321 18	\$45,000 00

<i>Amounts brought forward</i>	\$8,321 18	\$45,000 00
William P. Blanchard, sidewalk,	54 88	
F. S. Mayo, sidewalk	25 67	
Mary J. Holt, sidewalk	23 80	
J. A. Tapley, sidewalk	32 50	
Robert Duddy, sidewalk	29 83	
First M. E. Church, sidewalk	181 27	
John Kelley, sidewalk	25 67	
W. J. McCleney, driveway	3 25	
John Manning, driveway	2 00	
Charles C. Allen, driveway	13 65	
Richard Falvey, driveway	3 52	
F. M. Kilmer, driveway	3 00	
A. L. Proctor, driveway	3 00	
H. L. Simpson, driveway	3 00	
Edward Cox, driveway	10 50	
Eva F. Christie, driveway	17 55	
Charles F. Simes, driveway	6 00	
George H. Lomax, driveway	15 60	
W. S. Moore, driveway	6 00	
Robert J. Rutherford, drive- way	15 15	
George D. Goodrich, driveway	13 00	
North Packing and Provision Co., use of steam road-roller,	25 00	
Irving L. Russell, manure	135 00	
Robert G. Barry, horses	150 00	
George McKenna, pasturage	50 00	
H. E. Bean, pasturage	120 00	
C. W. Norris, street sweepings	17 40	
Emanuel Medina, street sweep- ings	25 00	
Thomas Ormand, rent	72 00	
Arthur Murley, rent	32 00	
Cambridge Gas Light Co., labor,	3 65	
Excess and Deficiency, balance to debit of account		9,440 07
		168 95
<i>Amount carried forward</i>		\$54,609 02

Amount brought forward \$54,609 02

DEBIT.

Cash, paid Thomas H. Eames, salary as superintendent	\$1,500 00
Board of horses	418 07
Laborers	26,545 75
Fitch & Ladd, hay and grain	2,356 95
Hosmer, Crampton, & Ham- mond, hay and grain	1,265 15
Fulton O'Brien, hay and grain,	670 64
N. M. Coffin & Co., bricks	920 00
W. A. Sanborn, bricks	279 36
Sanborn & Hatch, bricks	60 20
Parry Bros. & Co., bricks	65 25
John Thresher, bricks	310 85
S. W. Fuller, lumber	166 03
J. F. Ayer & Co., lumber	23 47
John F. Elkins, teaming	85 00
T. F. Crimmings, teaming	62 50
Owen Cunningham, teaming	200 00
Christopher Burke, teaming and stone	604 25
Martin Gill, teaming	120 00
George McKenna, teaming	355 00
James Hughes, stone	1,388 60
Dennis Shea, stone	1,006 40
John Turner & Co., stone	380 32
Mass. Broken Stone Co., stone,	79 09
West End Street Railway Co., stone, etc.	71 12
Jeremiah McCarthy, flagging stone	3,792 78
Fresh Pond Ice Co., sand	323 50
T. O'Sullivan, sand	75 40
John Birmingham, sand	18 75
Seward Dodge, horseshoeing, etc.	237 30

Amounts carried forward \$43,381 73

\$54,609 02

<i>Amounts brought forward</i>	\$43,381 73	\$54,609 02
A. Clement, horseshoeing	222 67	
Edward O'Brien, horseshoeing,	222 52	
Charles F. Scott, horseshoeing,	56 27	
J. B. Rufer, horseshoeing . . .	5 35	
C. W. Ingalls, horseshoeing . . .	1 95	
John Kellogg, horseshoeing . . .	51	
F. Dooris, blacksmithing	231 80	
C. L. Underhill, blacksmithing,	11 40	
L. A. Wright, blacksmithing . . .	5 60	
F. H. Flagg, wheelwright work, etc.	43 40	
David W. Crocker, wheelwright work, etc.	109 65	
James Miller, wheelwright work, etc.	117 70	
George Tyler & Co., repairing steam road-roller	62 40	
D. J. Bennett, harness work . . .	189 40	
E. Spalding, harness work	61 23	
T. F. Geaty, harness work	12 00	
W. H. Bustin, harness work	26 00	
Whitney & Snow, hardware	250 45	
W. I. Heald, hardware	47 85	
J. A. Durell, hardware	37 58	
F. C. Fuller & Son, hardware . . .	26 34	
F. A. Chandler, carpentering . . .	206 67	
J. K. Ricker, carpentering	33 70	
James F. Davlin, plumbing	121 84	
W. L. Snow, plumbing	11 19	
N. E. Fitz & Co., wharfage	218 50	
Parker & Wood, tools	42 91	
F. G. Gifford, tools	9 65	
James McKusker, tools	5 00	
Perrin, Seamans, & Co., tools . . .	8 38	
Samuel Walker Oil Co., oil	42 45	
Adams & Harrington, oil	55 10	
<i>Amounts carried forward</i>	\$45,879 19	\$54,609 02

<i>Amounts brought forward</i>	\$45,879 19	\$54,609 02
George H. Sampson, powder	135 02	
H. Wellington & Co., fuel	369 05	
Farrell Foundry and Machine Co., repairs on crusher	173 22	
Miller & Shaw, machine work	318 67	
Boston Belting Co., belting	79 59	
Boston Woven Hose Co., hose	9 84	
Dodge, Haley, & Co., tools	14 56	
Jordan & Christie, brushes	4 30	
J. W. Johnson, solder	12 05	
C. Hunter, glass	31 75	
Edward H. Bradshaw, packing,	17 33	
A. M. Loker, broom stock	10 00	
Morss & Whyte, wire netting	5 90	
J. A. Litchfield, salt	20	
Charles H. Tufts, painting	20 00	
Derby & Kilmer Desk Co., re- pairing desk	13 60	
S. J. Wright, filing saws	7 45	
S. J. Wood, keys, etc.	3 20	
John Stutson, street signs	37 27	
Somerville Journal Co., printing, etc.	53 31	
Citizen Publishing Co., printing, etc.	19 94	
J. E. Herrick, mason work	128 75	
Snow Flake Axle Grease Co., grease	79 00	
A. J. Herrick, veterinary ser- vices	217 02	
B. F. Freeman, photographs	7 00	
N. E. Telephone and Telegraph Co., rentals and tolls	71 10	
Charles Booth, weighing	2 00	
James T. Fitzgerald, use of team	4 00	
<i>Amounts carried forward</i>	<u>\$47,724 31</u>	<u>\$54,609 02</u>

<i>Amounts brought forward</i>	\$47,724 31	\$54,609 02
Henry Gray, cart	185 00	
Sturtevant Bros., horses	575 00	
Edgar Snow & Co., horse	146 00	
George Van Dyke, horses	450 00	
Gilman's Express Co., express- ing	1 85	
E. R. Perham, expressing	1 30	
Barker & Tibbetts, expressing	25	
Frank W. Bickford, labor	9 35	
C. W. Lerner & Co., disinfectant,	22 40	
City of Boston, water	72 80	
Hartford Steam Boiler Inspec- tion and Insurance Co., pre- miums of insurance	100 00	
Smith & Robinson, premiums of insurance	225 00	
Henry F. Woods, gravel land on North street	4,018 63	
Town of Medford, half cost of maintaining Middlesex-avenue bridge	536 40	
Laura B. Hawes, compensation for damages	100 00	
W. M. Curtis, compensation for damages	125 00	
Israel C. Earle, compensation for damages	125 00	
E. E. Woodbury, compensation for damages	8 00	
Town of Winchester, taxes	10 78	
Town of Wakefield, taxes	29 40	
City of Waltham, taxes	119 00	
Sewers account, edgestones	2 38	
Water Service account, piping	11 50	
Sidewalk Assessments, sidewalk on Chauncey avenue and Hol- land street	9 67	
	<hr/>	<u>\$54,609 02</u>

HIGHLAND SCHOOLHOUSE ADDITION.

CREDIT.

Balance from 1890		\$1,209 06
Appropriations, amount appropriated by borrowing on funded debt account		5,000 00
		<u>\$6,209 06</u>

DEBIT.

Cash, paid George N. Starbird on account of contract	\$4,436 00	
Account of extras	239 03	
Smead Warming and Ventilating Co., on account of heating apparatus	600 00	
Samuel D. Kelley, services as architect	616 00	
	<u>\$5,891 03</u>	
Balance to credit of account 1892	318 03	
		<u><u>\$6,209 06</u></u>

INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriation, amount assessed		\$500 00
State of Massachusetts, Indigent Soldiers and Sailors, one-half of amount paid in 1891		430 50
		<u>\$930 50</u>

DEBIT.

Cash, paid sundry persons	\$861 00	
Excess and Deficiency, balance to credit of account	69 50	
	<u>\$930 50</u>	

INTEREST.

CREDIT.

Appropriations, amount assessed		\$55,000 00
Cash, received on deposits in banks	\$1,053 44	
State Treasurer, national bank tax	4,221 82	
Corporation tax	12,635 81	
Brewster, Cobb, & Estabrook, premium on bonds	2,353 30	
Accrued interest on bonds	3,703 56	
Sundry persons, on taxes and assessments	5,871 17	
Real-estate liens on property sold for non-payment of assess- ments	96 78	29,935 88
	<hr/>	<hr/>
		\$84,935 88

DEBIT

Cash, paid on funded debt :—

\$729,000 one year at 4 per cent.,	\$29,160 00
\$1,000 six months at 4 per cent.,	20 00
\$327,500 one year at 5 per cent.,	16,375 00
\$10,000 one year at 5½ per cent.,	550 00

\$46,105 00

Less coupons unpaid 127 50

\$45,977 50

Sundry persons, coupons unpaid, 127 50

\$46,105 00

On temporary loans :—

Commonwealth of Massachu- setts, on note of \$75,000 three months at 4½ per cent.	\$843 75
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<i>Amounts carried forward</i>	\$843 75	\$84,935 88
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<i>Amounts brought forward</i>	\$843 75	\$84,935 88
F. S. Moseley & Co., on note of \$50,000 six months at $5\frac{1}{4}$ per cent.	1,312 50	
The Boston Five Cents Savings Bank, on note of \$100,000 six months at $4\frac{3}{4}$ per cent.	2,375 00	
Somerville Hospital, on note of \$13,000 four months at 6 per cent.	260 00	
Nellie A. Hutchings, guardian, on note of \$10,000 four months at 6 per cent.	200 00	
Nellie A. Hutchings, guardian, on note of \$15,000 four months at 6 per cent.	300 00	
Commonwealth of Massachu- setts, on note of \$75,000 three months at 4 per cent.	750 00	
Boston Five Cents Savings Bank, on note of \$50,000 six months at $5\frac{3}{4}$ per cent.	1,437 50	
Boston Five Cents Savings Bank, on note of \$10,000 six months at $5\frac{3}{4}$ per cent.	287 50	
Sinking Fund Commissioners of City of Boston, on note of \$100,000 six months at $4\frac{1}{2}$ per cent.	2,250 00	
Sinking Fund Commissioners of City of Boston, on note of \$100,000 five months at $4\frac{1}{2}$ per cent.	1,875 00	
Sinking Fund Commissioners of City of Boston, on note of \$100,000 five months at $4\frac{1}{2}$ per cent.	1,875 00	
	<hr/>	
	\$13,766 25	
<i>Amount carried forward</i>		<hr/> \$84,935 88

<i>Amount brought forward</i>		\$84,935 88
On funded debt	\$46,105 00	
On temporary loans	13,766 25	
	<hr/>	
	\$59,871 25	
Excess and Deficiency, balance to credit of account	25,064 63	
	<hr/>	
		<u>\$84,935 88</u>

MISCELLANEOUS.

CREDIT.

Appropriations, amount assessed		\$6,500 00
Cash, received of sundry persons, costs on property sold and prepared for sale for non-payment of taxes and assessments	\$985 58	
Sundry persons, liquor licenses,	23 00	
Sundry persons, licenses to ped- dle	25 00	
Thomas Cunningham, milk in- spector's fees	151 00	
Dennis C. Collins and M. Terry, damages paid Lindsey in 1890 refunded	337 15	
G. W. Mills, discount on bill	2 50	
William A. Sanborn, rifle-range buildings	40 00	
F. DeWitt Lapham, returned premium	2 40	
George M. Starbird, land on Oliver street	156 60	
Real-estate liens, costs on prop- erty sold	7 45	
	<hr/>	
<i>Amounts carried forward</i>	\$1,730 68	<u>\$6,500 00</u>

<i>Amounts brought forward</i> . . .	\$1,730 68	\$6,500 00
George I. Vincent, city clerk :—		
Recording mortgages, \$446 75		
Marriage certificates, 238 50		
Licensing dogs . . . 251 00		
Junk licenses . . . 74 00		
Liquor licenses . . . 23 00		
Auctioneers' licenses, 28 00		
Amusements . . . 96 00		
Fire-works . . . 53 00		
Billiards and pool . . . 26 00		
Intelligence offices . . . 20 00		
Naturalization fees . . . 50		
Copy of records . . . 2 25		
	<hr/>	
	1,259 00	2,989 68
	<hr/>	<hr/>
		\$9,489 68

DEBIT.

Cash, paid F. A. Chandler, carpentering,	\$99 39	
F. C. Fuller & Son, carpentering,	38 25	
G. M. Fortin, carpentering . . .	27 01	
I. H. Brown & Co., carpentering,	29 24	
Whitney & Snow, hardware . . .	64 42	
J. A. Durell, hardware	8 43	
F. L. Snow, hardware	12 00	
Howe & Flint, hardware	75	
A. J. Wilkinson, hardware	80	
W. E. Plumer & Co., hardware,	3 85	
Young & Maynard, plumbing	4 05	
S. W. Mann & Son, plumbing	18 42	
Silas D. Carter, horsekeeping	480 16	
Robert Duddy, horsekeeping	45 00	
Seward Dodge, horseshoeing	58 50	
F. Dooris, blacksmithing	3 64	
C. L. Underhill, blacksmithing	1 35	
Jacob Woodbury, blacksmithing,	3 71	
E. Spalding, harness work	16 00	
	<hr/>	
<i>Amounts carried forward</i>	\$914 97	\$9,489 68

<i>Amounts brought forward</i>	\$914 97	\$9,489 68
D. J. Bennett, harness work	1 25	
Charles E. Hancock, veterinary services	6 00	
Jabez R. Gott, veterinary services	5 00	
L. H. Brown, carriage hire	20 00	
J. H. Thompson, carriage hire	4 00	
H. M. Chase, carriage hire	4 00	
A. M. Prescott, teaming	45 00	
Union Square Carriage Co., repairing buggy	9 75	
Frost & Adams, engineers' supplies	70 40	
Bigelow & Dowse, engineers' supplies	27 29	
Lovell Arms Co., engineers' supplies	1 25	
Pettingill, Andrews, & Co., electrical supplies	54	
Albert L. Russell, electrical supplies	11 00	
I. D. Corthell, electrical supplies, Buff & Berger, repairing transit, Derby & Kilmer Desk Co., furniture	68 00	
Jackson Caldwell & Co., furniture	30 00	
W. W. White & Co., maps	4 50	
L. W. Bowen & Co., frame	6 50	
Sprague & Hathaway Co., frame, R. W. Karnan, dry goods	3 60	
J. H. Brooks, dry goods	2 80	
W. M. McCrillis, signs	3 50	
Frederick R. Cutter, clock, etc., George W. Bragdon, repairing furniture	28 00	
	1 00	
<i>Amounts carried forward</i>	<u>\$1,283 80</u>	<u>\$9,489 68</u>

<i>Amounts brought forward</i>	\$1,283 80	\$9,489 68
William Watson, repairing stamp,	50	
C. W. Lyman & Co., boxes	124 00	
Oliver Whyte & Co., wire-work,	8 45	
Hills, Turner, & Co., glass	3 25	
P. F. McGann, brass-work	3 00	
Ingalls & Kendricken, steam-fitting	91 97	
Thomas Groom & Co., stationery,	12 90	
Somerville Journal Co., advertising	60	
Citizen Publishing Co., advertising	25	
F. A. White, rent of ward room,	15 00	
Philip Eberle, rent of ward room,	25 00	
Ward officers	1,088 00	
Alice T. Sleeper, clerical services	335 65	
Kate W. Wood, clerical services,	123 00	
Cora F. Lewis, clerical services,	102 00	
K. A. Kelley, clerical services	21 00	
Charles G. Brett, clerical services	30 00	
Charles S. Robertson, clerical services	37 00	
F. E. Merrill, clerical services,	33 50	
W. P. Pitman, clerical services,	21. 00	
A. P. Marsh, car fares, etc.	2 80	
F. W. D. Dunklee, car fares, etc.	4 65	
C. R. Hulsman, car fares, etc.	8 20	
P. H. Everett, car fares, etc.	9 70	
Dana E. Perkins, car fares, etc.	8 30	
E. W. Bailey, car fares, etc.	8 45	
W. A. Greenough & Co., directories	8 00	
M. L. Vinal, directories	2 00	
George K. Boyle, numbering	11 00	
<i>Amounts carried forward</i>	<u>\$3,422 97</u>	<u>\$9,489</u>

<i>Amounts brought forward</i>	\$3,422 97	\$9,489 68
F. A. Lewis, numbering	12 00	
J. E. Herrick, setting city scales, Fairbanks, Brown, & Co., city scales and repairs	70 50 275 42	
Federal Ballot Box Co., repairs, Warren T. Butler, repairing bal- lot boxes	7 00 6 10	
W. H. Pool, repairing gas-fix- tures	4 20	
C. W. Cahalan, gas piping	23 84	
James Bartley, soap, etc.	12 13	
J. Q. Twombly, glazing, etc.	4 61	
Fred A. Norris, glazing, etc.	2 50	
C. H. Tufts, painting	2 50	
Germania Electric Co., lamps	9 20	
Charles D. Elliot, surveying	13 00	
A. Parker, stone bounds	7 50	
J. M. Corse, rent of P. O. box, Thos. N. Hart, rent of P. O. box, Post 139, G. A. R., contribution for observance of Memorial Day	1 00 3 00 300 00	
F. O. Reed <i>et al.</i> , rent of rifle- range	112 50	
Bufford's Sons' Lithograph Co., printing bonds	75 00	
Beacon Lithograph Co., printing bonds	55 00	
C. M. Blake, newspapers	6 00	
M. A. Mann, laundry, etc.	26 50	
F. G. Ray & Son, laundry	50	
H. A. Chick & Co., repairing furniture	2 65	
G. M. Winslow & Co., fuel	177 12	
B. F. Wild & Co., fuel	46 00	
W. H. Brine, ventilators	5 50	
<i>Amounts carried forward</i>	\$4,684 24	\$9,489 68

<i>Amounts brought forward</i>	\$4,684 24	\$9,489 68
City of Lowell, board of truants,	213 74	
City of Boston, water	40 50	
Somerville Electric Light Co., lighting	324 80	
Cambridge Gas Light Co., gas	82 88	
N. E. Telephone and Telegraph Co., rentals and tolls	153 43	
Ammiel Colman, sealer of weights and measures	100 00	
Charles A. Small, pound-keeper,	25 00	
George Cullis, affidavits of post- ing	54 50	
James A. McLane, posting	87 90	
S. H. Libby, services as auc- tioneer	6 30	
George L. Blackbird, labor	1 00	
Frank A. Hersey, labor	4 00	
C. A. Southwick, labor	44 70	
E. T. Cook, labor	9 00	
B. F. Sheridan, labor	9 00	
Daniel H. Rinn, labor	4 00	
James L. Whitaker, labor	8 00	
Patrick O'Brien, labor	4 00	
William H. Kelley, labor	4 35	
Patrick O'Connell, labor	22 73	
N. L. Pennock, labor	4 00	
John Battles, labor	4 00	
W. H. Denton, labor	6 00	
C. S. Decker, awnings	13 50	
Lamphrill & Marble, flag	38 40	
Thomas Hollis,* drugs	1 00	
Boyd Byron, abstracts	12 50	
H. D. & W. S. Durgin, ice	35 00	
S. J. Wood, keys, etc.	2 25	
F. DeWitt Lapham, premium of insurance	6 00	
<i>Amounts carried forward</i>	\$6,006 72	\$9,489 68

<i>Amounts brought forward</i>	\$6,006 72	\$9,489 68
Conant's Express, expressing	1 80	
C. E. Farnham, expressing	4 55	
E. R. Perham, expressing	18 70	
Gilman's Express, expressing	60	
Thorpe's Express, expressing	90	
Jairus Mann, watching and dis- bursements	128 50	
Sewers account, setting stone bounds	39 44	
Sewer Assessments account, sewer on Whipple street	19 04	
Clarence C. Ryder, turkeys	142 25	
F. L. Card, turkeys	35 08	
M. L. King, turkeys	58 25	
George S. Wilson, turkeys	94 00	
S. Z. Bowman, disbursements	70 26	
Charles B. Stevens, recording	13 05	
J. H. Colbath, ringing bell	9 00	
William S. Gray, ringing bell	9 00	
Frederick A. Young, ringing bell	9 00	
George W. Jacobs, ringing bell, S. A. Strahan, ringing bell	8 00	
G. W. Littlefield, ringing bell	6 00	
R. L. Lane, return of births	6 50	
John F. Couch, return of births, A. B. Dearborn, return of births, John A. Gregg, return of births, H. B. McIntire, return of births, F. W. Taylor, return of births	52 25	
H. P. Makechnie, return of births	7 50	
A. E. Merrill, return of births	3 50	
George W. Mills, return of births, Frank B. Norwood, return of births	3 00	
	95 00	
<i>Amounts carried forward</i>	\$6,861 39	\$9,489 68

<i>Amounts brought forward</i>	\$6,861 39	\$9,489 68
John M. Schroeder, return of births	123 75	
A. Ward Follett, return of births,	6 00	
Alfred E. Mann, return of deaths,	13 25	
H. D. Runey, return of deaths	26 00	
W. A. Flaherty, return of deaths,	39 00	
E. H. Marsh, return of deaths	24 75	
P. H. Rafferty & Co., return of deaths	18 75	
C. H. Lockhart, return of deaths,	12 50	
Burrill & Dutton, sharpening cutter	50	
McCloskey & Harty, compensation for damages	125 00	
Benjamin R. Omand, compensation for damages	300 00	
Walter H. Snow, compensation for damages	1,500 00	
D. E. Hennessey, horse	200 00	
	<hr/>	
	\$9,250 89	
Excess and Deficiency, balance to credit of account	238 79	
	<hr/>	
		<u>\$9,489 68</u>

OVERLAY AND ABATEMENT.

CREDIT.

Balance from 1890	\$12,207 77
Taxes, amount added to the amount of taxes assessed as fractional divisions for convenience in apportionment, to be applied to abatement on taxes	22,018 26
	<hr/>
	\$34,226 03

DEBIT.

Taxes, for amount of abatements on taxes	\$13,535 58
Excess and Deficiency, transferred	7,575 01
Balance to credit in account 1892	13,115 44
	<hr/>
	<u>\$34,226 03</u>

OVERPLUS ON TAX SALES.

CREDIT.

Balance from 1890	\$102 13
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DEBIT.

Balance to 1892	<u>\$102 13</u>
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ORDINANCES (REVISING).

CREDIT.

Appropriation, amount assessed	\$500 00
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DEBIT.

Cash, paid S. Z. Bowman, for clerical assistance revising ordinances,	\$460 00	
Excess and Deficiency, balance to credit of account	40 00	
	<u>40 00</u>	<u>\$500 00</u>

PROPERTY AND DEBT BALANCE.

CREDIT.

Balance from 1890		\$489,667 93
Public Property, property acquired dur- ing the year 1891	\$138,469 53	
Reduction of funded debt	57,000 00	
Renewals of funded debt	42,000 00	
	<u>237,469 53</u>	<u>\$727,137 46</u>

DEBIT.

Appropriations, amount borrowed on funded debt account	\$87,000 00	
Balance to credit in account 1892	640,137 46	
	<u>640,137 46</u>	<u>\$727,137 46</u>

PUBLIC PROPERTY.

CREDIT.

Balance to 1892		\$1,685,637 46
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DEBIT.

Balance from 1890	\$1,547,167 93	
Property and Debt Balance, property acquired during the year 1891,	138,469 53	
	<hr/>	\$1,685,637 46

PUBLIC LIBRARY.

CREDIT.

Balance from 1890		\$131 91
Appropriations, amount assessed		3,000 00
Cash, received of J. O. Hayden, County Treasurer, return on the amount received of the city for dog licenses in 1891	\$2,596 68	
H. A. Adams, librarian, fines	358 06	
Catalogues	24 12	
Howe & Flint, discount on bill, Cambridge Gas Light Co., dis- count on bill	1 50	
	2 84	
	<hr/>	2,983 20
		<hr/>
		\$6,115 11

DEBIT.

Cash, paid Little, Brown, & Co., books,	\$951 18	
Estes & Lauriat, books	863 39	
George E. Littlefield, books	771 40	
H. S. Inman, books	49 00	
S. S. Brastow, books	12 00	
Alexander T. T. Hicks, books	6 00	
William Towker, books	7 50	
A. S. Clark, books	2 60	
James H. Lamb, books	6 00	
E. K. Johnson, books	1 50	
Joseph G. Cupples, books	10 00	
	<hr/>	
<i>Amounts carried forward</i>	\$2,680 57	\$6,115 11

<i>Amounts brought forward</i> . . .	\$2,680 57	\$6,115 11
George H. Walker & Co., books,	15 00	
D. Appleton & Co., books . . .	6 00	
N. E. Magazine, books . . .	3 00	
A. F. Hudson, books . . .	4 00	
Weekly Magazine, books . . .	3 00	
Salem Press, History and Genea- logical Record books . . .	1 50	
W. A. Greenough, directory . . .	2 00	
Babb & Stephens, printing . . .	277 00	
J. G. Roberts & Co., binding books	231 65	
Bradley & Woodruff, binding books	4 25	
G. Kennedy Creighton, care of branch office	25 00	
H. S. Garcelon, care of branch office	75 00	
Cambridge Gas Light Co., gas,	176 76	
City of Boston, water	26 10	
B. F. Wild & Co., fuel	18 00	
Geo. M. Winslow, fuel	187 90	
Harrison, Beard, & Co., book- cases	163 75	
Thomas Groom & Co., stationery,	10 23	
W. B. Clark & Co., stationery . . .	2 15	
H. A. Chick, repairing furniture,	2 00	
George W. Bragdon, repairing furniture	1 25	
F. A. Chandler, carpentering . . .	3 45	
C. A. Slager, carpentering . . .	3 00	
Lawrence, Wilde, & Co., steps . . .	37 50	
L. C. Seavey, roofing	8 93	
A. C. Winning, mason work	8 75	
G. M. Fortin, painting, etc.	5 75	
J. Q. Twombly, glazing	2 05	
Whitney & Snow, dusters, etc. . .	19 63	
<i>Amounts carried forward</i> . . .	\$4,005 17	\$6,115 11

<i>Amounts brought forward</i>	\$4,005 17	\$6,115 11
Howe & Flint, hardware	23 15	
Young & Maynard, plumbing	5 26	
S. J. Wood, locksmith work	1 75	
E. Spalding, straps	1 75	
M. L. Chamberlain, ribbon	1 00	
Morss & Whyte, mats	5 52	
C. M. Blake, newspapers	6 00	
Citizen Publishing Co., news- papers	4 00	
R. W. Karnan, towels	1 50	
Gilman's Express, expressing	51 75	
E. R. Perham, expressing	58 75	
C. C. Farnham, expressing	33 20	
H. A. Adams, librarian	800 00	
A. L. Stone, assistant	400 00	
M. J. Warren, assistant	400 00	
E. A. Woodman, assistant	81 58	
M. G. Knapp, assistant	101 95	
E. H. Hunter, assistant	38 45	
H. B. Bullen, assistant	57 65	
M. Davenport, assistant	21 00	
G. S. Desmond, assistant	3 70	
F. M. Norcross, assistant	8 50	
	<hr/>	
	\$6,111 63	
Balance to credit of account 1892	3 48	
	<hr/>	
		<u>\$6,115 11</u>

PUBLIC GROUNDS.

CREDIT.

Appropriations, amount assessed		\$3,500 00
Cash, received of John White, error in pay-roll	\$7 00	
John Hallasey, error in pay-roll,	87	
	<hr/>	
		7 87
<i>Amount carried forward</i>		<u>\$3,507 87</u>

<i>Amount brought forward</i>		\$3,507 87
	DEBIT.	
Cash, paid laborers	\$1,886 74	
Somerville Electric Light Co., lighting	218 40	
Joseph Young, repairing mowers,	27 25	
Seward Dodge, repairing mowers,	75	
M. J. Coneeny, plants	75 00	
Walter Bates & Son, concreting,	108 90	
Whitney & Snow, hardware	24 02	
J. A. Durell, hardware	12 64	
Howe & Flint, hardware	18 54	
C. F. Pond, painting	119 20	
G.W. Manning, labor on flagstaff,	20 00	
M. A. Mann, repairing flag	3 00	
M. D. Jones & Co., repairing settees	4 40	
John F. Ayer & Co., lumber	37 49	
Joseph Breck & Sons, tools	14 10	
D. W. Lewis, grates, etc.	12 00	
S. J. Wood, filing saws	1 00	
Franklin Henderson, manure	30 75	
John T. Molloy, manure	74 49	
Peter Savage, manure	5 25	
Frank G. Williams, manure	5 25	
T. F. Crimmings, teaming	77 16	
A. M. Prescott, teaming, etc.	84 76	
J. H. Thompson, carriage hire	6 00	
John F. Hurley, police duty	19 50	
Robert Fuller, police duty	10 00	
John A. Dadman, police duty	37 50	
Osgood B. Dane, labor	12 00	
R. E. Archibald, labor	7 46	
I. H. Brown, lumber	1 35	
	<hr/>	
	\$2,954 90	
Excess and Deficiency, balance to credit of account	552 97	
	<hr/>	
		<u>\$3,507 87</u>

PRINTING AND STATIONERY.

CREDIT.

Appropriations, amount assessed		\$6,000 00
Cash, received Sidewalks account, advertising		8 50
		<hr/>
		\$6,008 50

DEBIT.

Cash, paid Thomas Groom & Co., stationery, etc.	\$1,804 54	
Somerville Journal Co., printing and advertising	2,888 81	
Citizen Publishing Co., printing and advertising	234 69	
McDonnell Bros., advertising	89 10	
Beacon Lithograph Co., printing,	59 50	
Babb & Stephens, printing	63 00	
Robert Burlen, binding plans,	9 00	
W. W. White & Co., mounting maps	1 00	
Sampson, Murdock, & Co., directories	15 00	
S. M. Spencer, stamp	10 00	
	<hr/>	
	\$5,174 64	
Excess and Deficiency, balance to credit of account	833 86	
	<hr/>	
		\$6,008 50

POLICE.

CREDIT.

Appropriations, amount assessed		\$20,000 00
Cash, received of H. A. Chapin, clerk of court, officers' fees, fines, etc.,	\$4,726 81	
John M. Fisk, Master of H. of C., fines, etc.	185 00	
Henry G. Cushing, fines	1 00	
	<hr/>	
	\$4,912 81	
Excess and Deficiency, balance to debit of account	11,764 51	
	<hr/>	
		16,677 32
<i>Amount carried forward</i>		<hr/>
		\$36,677 32

Amount brought forward \$36,677 32

DEBIT.

Cash, paid M. C. Parkhurst, chief,	\$1,700 00
R. R. Perry, captain	1,425 00
Samuel R. Dow, sergeant	1,125 00
Edward McGarr, sergeant	1,125 00
C. C. Cavanagh, sergeant	1,125 00
John S. Johnson, patrolman	1,026 75
Eugene A. Carter, "	1,026 75
George L. Smith, "	1,026 75
Edward M. Carter, "	1,026 75
Samuel A. Brown, "	1,026 75
John E. Fuller, "	1,026 75
George W. Bean, "	1,026 75
George A. Bodge, "	1,026 75
Phineas W. Skinner, "	1,026 75
Hubert H. Miller, "	1,024 00
Edward E. Hamblen, "	1,026 75
John Hafford, "	1,026 75
Albion L. Staples, "	1,026 75
Myron H. Kinsley, "	1,026 75
Dennis Kelley, "	1,026 75
George H. Carleton, "	1,026 75
Judson W. Oliver, "	1,026 75
Francis A. Perkins, "	1,026 75
Charles S. Thrasher, "	1,026 75
William H. Johnston, "	1,024 00
Charles L. Ellis, "	776 25
Charles E. Woodman, "	1,026 75
Arthur E. Keating, "	1,026 75
John G. Knight, "	1,026 75
Stephen S. Smith, "	1,026 75
Jacob W. Skinner, "	1,019 00
Theodore E. Heron, "	981 25
Zeba F. Coffin, patrolman, special,	244 00
Robert F. Fuller "	332 00
William Kelley, "	59 00

Amounts carried forward \$34,548 00 \$36,677 32

<i>Amounts brought forward</i>	\$34,548 00	\$36,677 32
James Vaughn, patrolman, special,	47 25	
William Dunn,	40 00	
William Pinsey,	40 50	
W. H. Denton,	2 00	
Joseph Upton,	10 00	
James H. Smith,	37 00	
Alfred M. Sibley,	9 00	
George C. Foss,	9 00	
John McLeod,	9 00	
Peter Savage,	9 00	
Davis P. Bucknam,	9 00	
John A. Dadman,	31 00	
Joseph F. Hurley,	4 00	
N. L. Pennock,	7 00	
Michael Buckley,	7 00	
Daniel H. Rinn,	7 00	
P. J. Fitzpatrick,	7 00	
George Cullis,	7 00	
A. A. Lewis,	7 00	
A. S. Arnold,	7 00	
Fred S. Young,	3 50	
Joseph Young,	7 00	
David A. Bolton,	77 50	
Jeremiah Leary,	35 75	
Jeremiah J. Meany,	4 00	
L. M. Maynard,	3 50	
M. C. Parkhurst, Lock-up keeper,	75 00	
M. C. Parkhurst, disbursements,	75 69	
S. R. Dow, disbursements	46 92	
Dennis Kelley, disbursements	24 88	
E. M. Carter, disbursements	11 97	
F. A. Perkins, disbursements	1 20	
Lemuel H. Snow, disbursements,	3 38	
Arthur E. Keating, disbursements	75	
E. B. Vreeland, hay, grain, etc.,	84 89	
<i>Amounts carried forward.</i>	\$35,309 68	\$36,677 32

<i>Amounts brought forward</i>	\$35,309 68	\$36,677 32
Fulton O'Brion, hay, grain, etc.,	142 91	
Albert L. Russell, electrical supplies	68 00	
Municipal Signal Co., electrical supplies	34 71	
Pettingill, Andrews, & Co., electrical supplies	127 54	
Sturtevant Brothers, supplies	7 22	
J. V. Porter, meals for prisoners,	17 96	
Frank N. Adams, meals for prisoners	9 85	
F. D. Snow, meals for prisoners,	10 00	
H. D. & W. S. Durgin, ice	30 00	
The Germicide Co., disinfectant,	16 65	
E. Spalding, harness work	10 90	
W. T. Henderson, wagon	65 00	
C. B. Cheney, photographs	1 50	
Frank Shepard, law books	2 00	
Little, Brown, & Co., law books,	3 00	
Thomas Groom & Co., stationery	26 50	
Somerville Journal Co., printing,	36 75	
N. E. Telephone & Telegraph Co., rentals and tolls	522 20	
D. Cutter, repairing badges	1 00	
Joseph E. Power, police badges,	15 00	
Scoville Manfg. Co., police buttons	13 51	
Somerville Electric Light Co., lighting	24 00	
Union Square Carriage Co., repairs	8 50	
Union Glass Co., supplies	6 50	
George H. Cowdin, drugs	2 90	
S. J. Wood, keys	1 25	
J. N. Pride, carriage hire	3 00	
<i>Amounts carried forward</i>	\$36,518 03	\$36,677 32

<i>Amounts brought forward</i>	\$36,518 03	\$36,677 32
James T. Fitzgerald, carriage hire	5 25	
L. H. Brown, carriage hire	13 50	
C. M. Blake, newspapers	7 30	
E. E. Schuebeler, towels	3 00	
Lizzie Avery, washing	15 24	
F. G. Ray & Son, washing	2 71	
W. E. Plumer & Co., hardware	30 31	
Howe & Flint, hardware	5 05	
Whitney & Snow, hardware	98	
Edward O'Brien, horseshoeing	22 63	
H. Wellington & Co., fuel	10 40	
George M. Winslow & Co., fuel,	39 72	
Charles E. Farnham, expressing,	2 95	
Gilman Express Co., expressing,	25	
	<hr/>	\$36,677 32
		<hr/> <hr/>

POLICE STATION INCIDENTALS.

CREDIT.

Appropriations, amount assessed		\$2,500 00
Cash, received of Commonwealth of Massachusetts, rent of armory,	\$400 00	
Somerville Co-operative Bank	45 00	
	<hr/>	445 00
		<hr/>
		\$2,945 00

DEBIT.

Cash, paid William Hayden, janitor	\$850 00	
Cambridge Gas Light Co., gas	788 48	
George M. Winslow & Co., fuel,	308 05	
H. Wellington & Co., fuel	78 00	
Sturtevant Bros., matches, etc.	3 59	
	<hr/>	
<i>Amounts carried forward</i>	\$2,028 12	\$2,945 00

<i>Amounts brought forward</i>	\$2,028 12	\$2,945 00
F. A. Chandler, carpenter work,	15 75	
D. P. Bucknam, mason work	8 25	
James F. Davlin, plumbing	3 50	
Young & Maynard, plumbing	1 25	
J. Q. Twombly, glazing	19 85	
Cunningham Iron Works, labor,	7 65	
Oliver H. Plumer, repairing chairs	3 00	
Jackson Caldwell & Co., repair- ing chairs	1 00	
A. A. Sanborn, boiler and steam fitting	575 72	
A. J. Wilkinson, door springs	6 75	
J. F. Ayer & Co., lumber	17 26	
Charles A. Holmes, ash barrels,	9 00	
W. E. Plumer & Co., hard- ware	13 78	
Whitney & Snow, hardware	9 77	
George H. Hills & Co., mugs	48	
George H. Cowdin, drugs	90	
W. L. Fox, compound	1 25	
Magic Chemical Co., compound,	2 50	
The Germicide Co., disinfectant,	33 30	
N. E. Telephone & Telegraph Co., tolls	1 45	
E. R. Perham, expressing	1 50	
Hartford Steam Boiler Inspec- tion and Insurance Co., in- surance	50 00	
City of Boston, water rates	72 70	
L. Arnold, compensation for damages	4 50	
	<hr/>	
	\$2,889 23	
Excess and Deficiency, balance to credit of account	55 77	
	<hr/>	
		<u>\$2,945 00</u>

REAL-ESTATE LIENS.

CREDIT.

Balance to 1892	\$888 40
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DEBIT.

Balance from 1890	\$55 44	
Sewer Assessments, title deeded to the city for non-payment of sewer assessments	728 73	
Interest on titles deeded to the city for non-payment of sewer assess- ments	96 78	
Miscellaneous, costs on titles deeded to the city for non-payment of sewer assessments	7 45	
	<u>7 45</u>	<u>\$888 40</u>

REDUCTION OF FUNDED DEBT.

CREDIT.

Appropriations, amount assessed	\$57,000 00
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DEBIT.

Property and Debt Balance, amount of reduction of funded debt in 1891	<u>\$57,000 00</u>
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RENEWALS OF FUNDED DEBT.

CREDIT.

Appropriations, amount assessed	\$42,000 00
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DEBIT.

Property and Debt Balance, amount of funded debt renewed in 1891	<u>\$42,000 00</u>
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RELIEF AND BURIAL OF INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriations, amount assessed		\$3,000 00
State of Massachusetts, one-half of amount paid for burials in 1891,	\$35 00	
Excess and Deficiency, balance to debit of account	386 96	
	<u> </u>	421 96
		<u>\$3,421 96</u>

DEBIT.

Cash, paid monthly pay-rolls	\$3,222 50	
Worcester Lunatic Hospital, board of soldiers	167 60	
Lewis Guthrie, board of soldiers,	31 86	
	<u> </u>	\$3,421 96

STATE AID.

CREDIT.

State of Massachusetts, amount paid in 1891 charged to State		\$5,596 00
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DEBIT.

Cash, paid monthly pay-rolls		<u>\$5,596 00</u>
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STATE OF MASSACHUSETTS.

CREDIT.

Appropriations, amount assessed		\$20,670 00
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DEBIT.

Cash, paid State Treasurer, State tax for 1891		<u>\$20,670 00</u>
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STATE OF MASSACHUSETTS, STATE AID.

CREDIT.

Cash, received of State Treasurer		\$5,035 50
Balance, Dec. 31, 1891, due from State Dec. 10, 1892, to debit in account		5,480 00
<i>Amount carried forward</i>		<u>\$10,515 50</u>

Amount brought forward \$10,515 50

DEBIT.

Balance from 1890	\$4,919 50	
State Aid, amount paid in 1891	5,596 00	
	<u> </u>	\$10,515 50

STATE OF MASSACHUSETTS, INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Cash, received of State Treasurer	\$661 00	
Balance, Dec. 31, 1891, due from State Dec. 10, 1892, to debit in account	418 50	
	<u> </u>	\$1,079 50

DEBIT.

Balance from 1890	\$649 00	
Indigent Soldiers and Sailors, one-half of amount paid in 1891	430 50	
	<u> </u>	\$1,079 50

STATE OF MASSACHUSETTS, BURIAL OF INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Cash, received of State Treasurer	\$17 50	
Balance, Dec. 31, 1891, due from State Dec. 10, 1892, to debit in account	87 50	
	<u> </u>	\$105 00

DEBIT.

Balance from 1890	\$70 00	
Relief and Burial of Indigent Soldiers and Sailors, one-half of amount paid in 1891	35 00	
	<u> </u>	\$105 00

SUNDRY PERSONS.

CREDIT.		
Balance from 1890		\$372 60
Interest, coupons due and unpaid		127 50
		<hr/>
		\$500 10
DEBIT.		
Cash, paid sundry persons, amounts due them	\$337 50	
Balance, to credit in account 1892	162 60	
		<hr/>
		<u>\$500 10</u>

SALARIES.

CREDIT.		
Appropriations, amount assessed		\$28,200 00
DEBIT.		
Cash, paid Charles G. Pope, mayor,	\$1,000 00	
George I. Vincent, city clerk	2,700 00	
John F. Cole, city treasurer and collector of taxes	3,900 00	
Horace L. Eaton, city engineer,	2,300 00	
Selwyn Z. Bowman, city solicitor,	1,500 00	
Alvah B. Dearborn, city physi- cian	950 00	
Charles S. Robertson, city auditor	450 00	
Charles S. Robertson, clerk of Common Council	200 00	
William P. Mitchell, clerk of assessors and committees	1,500 00	
Albert B. Fales, assistant clerk of assessors and committees,	1,100 00	
Jairus Mann, city messenger	1,300 00	
Thomas R. Roulstone, superin- tendent of buildings and street lights	1,800 00	
		<hr/>
<i>Amounts carried forward</i>	\$18,700 00	<hr/> <u>\$28,200 00</u>

<i>Amounts brought forward</i>	\$18,700 00	\$28,200 00
James R. Hopkins, inspector of buildings	92 07	
Thomas Cunningham, inspector of milk	300 00	
George W. Hadley, assessor	700 00	
Benjamin T. Thompson, assessor,	700 00	
Samuel T. Richards, assessor	700 00	
Joshua H. Davis, assistant assessor	250 00	
William A. Flaherty, assistant assessor	250 00	
Edgar T. Mayhew, assistant assessor	250 00	
Henry A. True, assistant assessor,	250 00	
Beulah M. Peirce, department clerk	700 00	
W. H. Whitcomb, janitor of City Hall and Public Library	750 00	
Cromwell G. Rowell, registrar of voters	200 00	
Charles P. Lincoln, registrar of voters	200 00	
William B. Hawes, registrar of voters	200 00	
George I. Vincent, registrar of voters	200 00	
George O. Shaw, street clerk	76 00	
F. W. Gallagher, street clerk	26 00	
S. M. Backall, street clerk	21 00	
T. M. Clancey, street clerk	13 00	
E. G. Wiswell, street clerk	56 00	
Engineer's assistants	3,247 46	
	<hr/>	
	\$27,881 53	
Excess and Deficiency, balance to credit of account	318 47	
	<hr/>	
		<u>\$28,200 00</u>

STREET LIGHTS.

CREDIT.

Appropriations, amount assessed		\$22,500 00
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DEBIT.

Cash, paid Somerville Electric Light Company, lighting	\$22,155 19	
Labor	12 00	
Mast arms	70 00	
Wheeler Reflector Co., lighting	40 05	
P. O'Connell, labor	2 00	
O. A. Conant, labor	2 25	
F. A. Chandler, expressing	75	
	<hr/>	
	\$22,282 24	
Excess and Deficiency, balance to credit of account	217 76	
	<hr/>	
		<u>\$22,500 00</u>

SIDEWALKS.

CREDIT.

Appropriations, amount assessed	\$10,000 00	
Sidewalk Assessments, assessments levied	10,035 11	
	<hr/>	
		\$20,035 11

DEBIT.

Cash, paid laborers	\$4,141 50	
Jeremiah McCarthy, edgestones,	6,834 18	
John Thrasher, bricks	4,032 18	
W. A. Sanborn, bricks	2,117 92	
Sanborn & Hatch, bricks	980 80	
Somerville Journal Co., adver- tising	109 77	
Citizen Publishing Co., advertis- ing	83 62	
	<hr/>	
<i>Amounts carried forward</i>	\$18,299 97	<u>\$20,035 11</u>

<i>Amounts brought forward</i>	\$18,299 97	\$20,035 11
Printing and Stationery account, advertising	8 50	
Highways account, teaming, etc.	1,634 73	
Sewers account, edgestones	49 41	
Christopher Burke, teaming	12 50	
T. F. Crimmings, teaming	5 00	
John F. Elkins, teaming	5 00	
Martin Gill, teaming	5 00	
George McKenna, teaming	7 50	
Owen Cunningham, teaming	7 50	
	<hr/>	<u>\$20,035</u>

SIDEWALK ASSESSMENTS.

CREDIT.

Cash, received of sundry persons, assessments	\$10,997 92
Balance to debit in account 1892	3,585 43
	<hr/>
	\$14,583 35

DEBIT.

Balance from 1890	\$4,548 24
Sidewalks, assessments levied	10,035 11
	<hr/>
	<u>\$14,583 35</u>

SEWERS.

CREDIT.

Appropriations, amount assessed	\$10,000 00
Cash, received of Massachusetts Gen- eral Hospital, annual fee for permission to enter Fitchburg- street sewer	\$50 00
Christopher Burke, stone	50 00
City of Boston, stone bounds	39 44
Miscellaneous account, setting stone bounds	39 44
	<hr/>
<i>Amounts carried forward</i>	\$178 88
	<u>\$10,000 00</u>

<i>Amounts brought forward</i>	\$178 88	\$10,000 00
Highways account, edgestones	2 38	
Sidewalks account, edgestones	49 41	
West End Street Railway Co., labor and materials	15 16	
J. B. Wilbur, labor	2 43	
Charles Robinson, labor	11 19	
Dennis Ryan, labor	10 49	
Charles A. Mongan, puddling	5 62	
Richard Falvey, puddling	1 12	
A. W. Byrne, puddling	5 79	
North Packing & Provision Co., catch-basins, etc.	143 41	
	<hr/>	425 88
Sewer Assessments, assessments levied		10,667 85
Excess and Deficiency, balance to debit of ac- count		1,225 95
		<hr/>
		\$22,319 68
DEBIT.		
Cash, paid laborers	\$4,966 39	
George D. Goodrich, drain pipes,	3,314 68	
A. Parker, catch-basin stones	920 63	
Barbour, Stockwell, & Co., traps,	111 55	
Osgood & Hart, catch-basin covers	65 00	
Miller & Shaw, iron work	16 25	
Charles L. Underhill, black- smithing	5 30	
F. Dooris, blacksmithing, etc.	1 00	
Berry & Ferguson, drain pipe	359 52	
W. A. Sanborn, bricks	203 60	
Sanborn & Hatch, bricks	291 60	
Parry Brothers & Co., bricks	15 00	
Somerville Journal Co., adver- tising	44 13	
Highways account, bricks	11 25	
H. Wellington & Co., cement	147 95	
Jeremiah McCarthy, stone	7 00	
	<hr/>	
<i>Amounts carried forward</i>	\$10,480 85	\$22,319 68

<i>Amounts brought forward</i> . . .	\$10,480 85	\$22,319 68
E. Fitzgerald, sand	5 00	
City of Boston, water	36 00	
Edson Manfg. Co., diaphragm	2 20	
James Bartley, salt	60	
L. Arnold, carpenter work	2 00	
Boston Woven Hose Co., hose	77 94	
Howe & Flint, hardware	4 75	
Whitney & Snow, hardware	42 21	
W. E. Plumer & Co., hardware	2 60	
S. J. Wood, filing saws	25	
John Fisher, pails	3 45	
McDormand, Warner, & Co., ladder	2 55	
F. H. Flagg, catch-basin covers, I. H. Brown, lumber	6 95	
F. W. Gilbert, rubber boots, etc., A. M. Prescott, teaming, labor, etc.	47 00	
T. Edward Eames, car fares, etc., L. Roger Wentworth, services	1,496 26	
City of Cambridge, five-ninths of expense of cleaning outlet at Bridge-street sewer	4 42	
Dennis C. Collins & Maurice Terry, balance for construct- ing sewer in Highland avenue, Christopher Burke, constructing sewer in Lowell street	10 00	
Willard B. Bryne, constructing sewer in Cypress street	1,234 77	
Willard B. Bryne, constructing sewer in Alpine street	434 53	
Willard B. Bryne, constructing sewer in Williams street	895 87	
Willard B. Bryne, constructing sewer in Elston street	125 84	
	902 54	
	900 06	
	208 38	
<i>Amounts carried forward</i>	<hr/>	<hr/>
	\$16,931 22	\$22,319 68

<i>Amounts brought forward</i> . . .	\$16,931 22	\$22,319 68
Willard B. Bryne, constructing sewer in Spring street . . .	212 02	
Willard B. Bryne, constructing sewer in Windom street . . .	144 76	
Charles A. Mongan, constructing sewer in Pleasant and Vinal avenues	173 20	
Charles A. Mongan, constructing sewer in Runey place . . .	123 68	
Charles A. Mongan, constructing sewer in Atherton street . .	238 62	
Charles A. Mongan, constructing sewer in Taylor street . . .	133 60	
Charles A. Mongan, constructing sewer in Whipple street . . .	139 60	
Charles A. Mongan, constructing sewer in West street . . .	37 60	
Charles A. Mongan, constructing sewer in Roberts street . . .	68 57	
Charles A. Mongan, constructing sewer in Waldo street . . .	108 63	
Charles A. Mongan, constructing sewer in Carver street . . .	71 28	
Charles A. Mongan, constructing sewer in Benton avenue . . .	130 15	
Charles A. Mongan, constructing sewer in Cook street . . .	60 80	
Richard Falvey, constructing sewer in Sargent avenue . . .	210 68	
Richard Falvey, constructing sewer in Ayer avenue . . .	379 30	
Richard Falvey, constructing sewer in Belmont street . . .	411 82	
Richard Falvey, constructing sewer in Burnside avenue . . .	723 46	
<i>Amounts carried forward</i> . . .	<u>\$20,298 99</u>	<u>\$22,319 68</u>

<i>Amounts brought forward</i>	\$20,298 99	\$22,319 68
Maurice Buttimer, constructing sewer in Lawrence street	116 46	
Maurice Buttimer, constructing sewer in Wigglesworth street,	309 76	
Maurice Buttimer, constructing sewer in Stone avenue	470 29	
Dennis Ryan, constructing sewer in Nashua street	81 00	
Dennis Ryan, constructing sewer in Miner street	88 65	
Dennis Ryan, constructing sewer in Newbury street	116 11	
Dennis Ryan, constructing sewer in Conwell avenue and Francis street	239 34	
Dennis Ryan, constructing sewer in Calvin street	277 10	
Dennis Ryan, constructing sewer in Concord avenue	144 26	
Dennis Ryan, constructing sewer in Broadway	173 72	
Charles A. Mongan, labor	4 00	
	<hr/>	<u>\$22,319 68</u>

SEWER ASSESSMENTS.

CREDIT.

Cash, received of sundry persons	\$8,697 69
Real-Estate Liens, titles to the city for non-payment of sewer assessments	728 73
Balance to debit in account 1892	8,172 53
	<hr/>
	\$17,598 95

DEBIT.

Balance from 1890	\$6,931 10
Sewers, assessments levied	10,667 85
	<hr/>
	<u>\$17,598 95</u>

SUPPORT OF POOR.

CREDIT.

Appropriations, amount assessed		\$14,000 00
Cash, received for support of paupers:—		
Of State of Massachusetts	\$840 39	
Of City of Boston	449 05	
Of City of Cambridge	119 75	
Of City of Lowell	19 25	
Of City of Gloucester	4 50	
Of City of Waltham	16 50	
Of City of Malden	83 90	
Of City of Woburn	19 00	
Of City of Newburyport	1 25	
Of Town of Arlington	28 15	
Of Town of Medford	3 30	
Of Town of Milford	30 20	
Of Town of Revere	33 50	
Of Town of Stoneham	47 74	
Of Town of Sandwich	10 50	
State of Massachusetts, burial of state paupers	150 00	
L. R. Wentworth, guard, aid fur- nished	126 75	
John C. Harris, aid furnished	169 46	
Sarah J. Barsanter, aid furnished, Eugene McCarty, aid furnished,	9 75 6 00	
	<hr/>	2,168 94
		<hr/>
		\$16,168 94

DEBIT.

Cash, paid for support of paupers:—		
Commonwealth of Massachusetts,	\$965 60	
Massachusetts School for the Feeble-minded	338 86	
Worcester Lunatic Hospital	2,324 78	
Worcester Insane Asylum	519 98	
Westboro Insane Hospital	1,062 68	
Taunton Lunatic Hospital	169 46	
	<hr/>	
<i>Amounts carried forward</i>	\$5,381 36	\$16,168 94

<i>Amounts brought forward</i>	\$5,381 36	\$16,168 94
Danvers Lunatic Hospital	734 04	
House of the Angel Guardian	144 00	
City of Boston	793 39	
City of Cambridge	48 35	
City of Chelsea	67 50	
City of Lowell	63 00	
City of Malden	182 00	
City of Newton	13 00	
Town of Chelmsford	33 00	
Town of Everett	6 75	
Town of Medford	277 35	
Town of Peabody	608 45	
Town of Raynham	110 00	
Carney Hospital	124 00	
Mary E. Burke, rent	72 00	
Julia Casey, rent	48 00	
Ellen Driscoll, rent	48 00	
E. H. Elliott, rent	72 00	
Thomas Flemming, rent	48 00	
John McGonagle, rent	71 00	
Mary O'Hare, rent	54 00	
Bridget Reynolds, rent	7 00	
Emily E. Rice, rent	72 00	
Mary Schultz, rent	72 00	
Sarah Gill, rent	72 00	
Michael Conlon, rent	72 00	
Antois A. Costa, rent	48 00	
Lydia H. Fisher, rent	104 30	
A. E. Viles, executor, rent	60 00	
William Waters, rent	8 00	
Julia Herbert, rent	7 00	
Bridget Maher, rent	35 00	
Eliza Golden, rent	6 00	
Emily A. Munroe, rent	44 00	
Edward Foster, rent	48 00	
Ann Kelly, board	104 30	
<i>Amounts carried forward</i>	<hr/> \$9,758 79	<hr/> \$16,168 94

<i>Amounts brought forward</i>	\$9,758 79	\$16,168 94
Hannah M. Mayo, board	169 45	
Ellen M. O'Donnell, board	104 30	
Datie G. Sawin, board	52 17	
Catherine Earle, board	106 00	
Fred'k J. Miller, board	15 00	
Philip Eberle, board	130 00	
Martin Toye, board	13 14	
Preston Cheney, board	212 17	
George Clapp, board	212 17	
Morris Barry, board	26 29	
C. H. Dunbar, board	195 86	
Charles Hutchinson, board	52 14	
James Hepney, board	20 00	
Laura Tousan, board	16 00	
Margaret Guthro, board	25 00	
Catherine Cronin, board	24 00	
G. H. Hills & Co., groceries and provisions	503 26	
William S. Ward, groceries and provisions	403 50	
Sturtevant Bros., groceries and provisions	289 50	
Charles A. Small, groceries and provisions	243 00	
North Packing & Provision Co., provisions	116 00	
D. E. Watson, groceries and provisions	64 00	
James Bartley, groceries and provisions	8 00	
Charles S. Butters, groceries and provisions	17 50	
Christopher Bros., groceries and provisions	24 00	
H. E. Rand, groceries and provisions	27 50	
<i>Amounts carried forward</i>	<u>\$12,828 74</u>	<u>\$16,168 94</u>

<i>Amounts brought forward</i>	\$12,828 74	\$16,168 94
A. Munroe, groceries and provisions	72 00	
A. L. Knowles, groceries and provisions	84 05	
Henry Gray, milk	10 64	
A. Fiske, crackers	25 04	
Somerville Clothing Co., clothing	6 10	
Charles F. Brine, dry goods	4 25	
J. H. Brooks, dry goods	29 36	
H. Wellington & Co., fuel	637 09	
H. W. Jones, groceries	68 00	
J. D. Collins, groceries	6 50	
F. H. Turner & Co., groceries	23 61	
Jackson Caldwell & Co., clothing	1 75	
Philip Eberle, boots and shoes	75 05	
F. W. Gilbert, boots and shoes	31 25	
J. H. Mongan, boots and shoes,	3 75	
W. J. Emerson, boots and shoes,	1 00	
Aaron R. Gay, stationery	5 50	
Thomas Groom & Co., stationery	4 75	
Somerville Journal Co., printing,	25 50	
A. L. Haskell, printing	3 00	
William A. Flaherty, services as undertaker	100 00	
Alfred E. Mann, services as undertaker	80 00	
P. H. Rafferty & Co., services as undertaker	15 00	
H. D. Runey, services as undertaker	25 50	
Joseph J. Kelley, services as undertaker	10 00	
A. D. Dennett, services as nurse,	20 00	
<i>Amounts carried forward</i>	<u>\$14,197 38</u>	<u>\$16,168 94</u>

<i>Amounts brought forward</i>	\$14,197 38	\$16,168 94
James Griffin, services as nurse,	18 00	
Charles S. Viles, carriage hire	22 50	
Howard Lowell, carriage hire	5 00	
L. H. Brown, carriage hire	5 50	
Brown & Smith, carriage hire	6 00	
James McCuin, expressing	10 00	
A. M. Prescott, expressing	3 00	
M. G. Staples, expressing	1 50	
Young & Maynard, plumbing	5 50	
J. McCaffrey, carpentering	3 75	
A. B. Dearborn, truss	3 00	
Fisk & Arnold, artificial limb	75 00	
City of Cambridge, water	4 50	
J. A. Cummings Printing Co., printing	3 00	
S. H. Libby, premium of insur- ance	15 00	
C. C. Folsom, salary as agent	1,200 00	
Disbursements	137 81	
W. D. Hayden, services as agent,	14 00	
Frank W. Kaan, salary as clerk,	250 00	
	<u>\$15,980 49</u>	
Excess and Deficiency, balance to credit of account	188 45	<u>\$16,168 94</u>

SCHOOL FUEL.

CREDIT.

Appropriations, amount assessed	\$7,500 00
Excess and Deficiency, balance to debit of account	531 93
	<u>\$8,031 93</u>

DEBIT.

Cash, paid George M. Winslow & Co., fuel	\$5,683 50
Horatio Wellington & Co., fuel,	1,327 47
B. F. Wild & Co., fuel	1,020 96
	<u>\$8,031 93</u>

SCHOOL TEACHERS' SALARIES.

CREDIT.

Appropriations, amount assessed	\$102,000 00
Excess and Deficiency, balance to debit of account	8,615 92
	<hr/>
	\$110,615 92

DEBIT.

Cash, paid salaries	\$110,615 92
	<hr/>

SCHOOL CONTINGENT.

CREDIT.

Appropriations, amount assessed	\$21,000 00
Cash, received of City of Boston, discount on water bill	\$11 05
Charles Furlong, tuition of non-resident pupil	6 00
Cyrus K. Wood, tuition of non-resident pupil	15 00
John S. W. Nichols, tuition of non-resident pupil	12 50
Wilbur T. Warren, tuition of non-resident pupil	24 00
Albert S. Teele, tuition of non-resident pupil	8 00
	<hr/>
	76 55
Excess and Deficiency, balance to debit of account	5,862 70
	<hr/>
	\$26,939 25

DEBIT.

Cash, paid Clarence E. Meleney, salary as superintendent of schools, Disbursements	\$2,500 00
Janitors	108 39
L. H. Snow, truant officer	8,543 61
Jairus Mann, truant officer	900 00
	50 00
	<hr/>
<i>Amounts carried forward</i>	\$12,102 00
	<hr/>
	\$26,939 25

<i>Amounts brought forward</i> . . .	\$12,102 00	\$26,939 25
Effingham, Maynard, & Co., books	35 95	
Silver, Burdett, & Co., books . . .	1,024 45	
Ginn & Co., books	535 14	
American Book Company, books, Boston School Supply Co., books	2,329 74	
Thompson, Brown, & Co., books, J. B. Lippincott & Co., books . . .	390 31	
University Publishing Co., books, Leach, Shewell, & Co., books . . .	190 91	
Lee, Shepard, & Co., books	74 01	
Houghton, Mifflin, & Co., books, William H. Zinn, books	330 24	
Allyn & Bacon, books	1,002 70	
Bay State Publishing Co., books, Edward E. Babb & Co., books . . .	407 29	
D. Appleton & Co., books	129 58	
Warren T. Adams, books	17 30	
Massachusetts Bible Society, books	14 15	
E. J. Enebuske, books	4 80	
Interstate Publishing Co., books, Carl Schoenhoff, books	123 37	
B. A. Fowler & Co., books	147 20	
John B. Alden, books	150 00	
Charles W. Seaver, books	2 63	
Eldridge & Bro., books	4 80	
D. C. Heath & Co., books	5 50	
William Ware & Co., books	18 29	
E. H. Butler & Co., books	90 39	
Frost & Adams, supplies	12 45	
George S. Perry, supplies	142 10	
J. L. Hammett, supplies	463 92	
The Prang Educational Co., supplies	504 75	
	491 37	
<i>Amounts carried forward</i> . . .	<hr/> \$21,055 77	<hr/> \$26,939 25

<i>Amounts brought forward</i>	\$21,055 77	\$26,939 25
George L. King & Merrill, supplies	2,309 15	
W. E. Plumer & Co., supplies,	448 00	
Thorp & Adams Mfg. Co., supplies	65 13	
Murphy, Leavens, & Co., supplies	371 02	
Wadsworth, Howland, & Co., supplies	13 01	
Smith & White, supplies	32 00	
Library Bureau, supplies	3 00	
L. W. Bowen & Co., supplies	1 75	
Pulsifer, Jordan, & Co., supplies,	21 45	
James Bartley, supplies	5 00	
Paul A. Garey & Co., supplies	19 25	
Whitney & Snow, supplies	4 90	
Milton, Bradley, & Co., supplies,	11 72	
D. T. Ames & Co., supplies	17 07	
A. G. Whitcomb, supplies	40 95	
Carlos L. Page, supplies	37 79	
Joseph Watrous, supplies	158 42	
Peabody, Whitney, & Co., supplies	10 50	
Winkley, Dresser, & Co., supplies	2 70	
H. Lattimer & Co., supplies	2 74	
Henry J. Gleason, supplies	3 90	
Eagle Pencil Co., supplies	37 50	
Annie Coffin, supplies	3 50	
H. E. Richardson, supplies	1 04	
J. L. Whitaker, supplies	1 70	
H. C. Diamond & Co., supplies,	1 09	
J. G. Roberts & Co., binding books	8 50	
American Book Co., N. Y., books	24 00	
<i>Amounts carried forward</i>	<u>\$24,712 55</u>	<u>\$26,939 25</u>

<i>Amounts brought forward</i>	\$24,712 55	\$26,939 25
Stewart & Co., clay	4 15	
T. Lynam & Sons, mats	80 50	
E. C. Spooner, barometer	4 50	
E. F. Daniels, tuning pianos	10 75	
Citizen Publishing Co., printing, ing, etc.	161 21	
Somerville Journal Co., printing, etc.	210 25	
McDonnell Bros., advertising	7 80	
J. A. Durell, supplies	2 28	
Thomas N. Hart, rent of P. O. box	3 00	
John M. Corse, rent of P. O. box	2 00	
City of Boston, water	594 47	
City of Cambridge, water	21 60	
Cambridge Gas Light Co., gas	195 20	
Charlestown Gas Co., gas	153 15	
Somerville Electric Light Co., lighting	82 44	
N. E. Telephone & Telegraph Co., rentals and tolls	42 50	
Boston Bank Note & Lithograph Co., diplomas	69 87	
C. A. French, filling in diplomas, First M. E. Church, use of edifice	100 00	
George L. Baxter, ribbon	4 52	
Charles E. Brainard, ribbon, etc.	10 81	
John S. Hayes, ribbon, etc.	22 31	
George E. Nichols, ribbon	3 00	
M. J. Wendall, ribbon, etc.	5 75	
F. W. Shattuck, ribbon, etc.	8 35	
R. H. Stearns, ribbon	6 70	
J. W. Mandell, flowers	2 09	
<i>Amounts carried forward</i>	<u>\$26,585 10</u>	<u>\$26,939 25</u>

<i>Amounts brought forward</i>	\$26,585 10	\$26,939 25
H. L. White, flowers	2 60	
Brown & Smith, carriage hire	39 00	
Boston Cab Co., carriage hire	6 00	
J. A. McLane, posting	15 00	
Holland & Daniels, mounting maps	2 50	
Edwin A. Davis, repairing flag	2 00	
S. J. Wood, repairing flag	75	
Hayward Hartwell, labor	5 18	
W. H. Rinn, labor	6 00	
Mrs. Hartness, labor	3 00	
A. M. Prescott, teaming	35 75	
Thorpe's Express, expressing	48 26	
Charles E. Farnham, expressing,	25 05	
F. H. Tibbetts, expressing	19 00	
Barker & Tibbetts, expressing	3 90	
Gilman Express Co., expressing,	6 10	
M. G. Staples, expressing	6 75	
George Morton, expressing	10 00	
J. B. Eastman, supplies	1 10	
Eastern Educational Bureau, charts	30 45	
Silver, Burdett, & Co., books	85 76	
	<hr/>	<u>\$26,939 25</u>

SCHOOLHOUSE INCIDENTALS.

CREDIT.

Appropriations, amount assessed		\$13,550 00
Cash, received of F. Timney, old iron,	\$28 13	
Perkins-street Baptist Church, rent	25 00	
	<hr/>	53 13
Excess and Deficiency, balance to debit of account		1,244 03
		<hr/>
<i>Amount carried forward</i>		\$14,847 16

<i>Amount brought forward</i>		\$14,847 16
DEBIT.		
Cash, paid F. A. Chandler, carpenter work	\$643 02	
G. W. Trefren, Jr., carpenter work	169 41	
J. E. Herrick, carpenter work	102 09	
Gillis Bros., carpenter work	127 99	
John D. Hills, carpenter work	98 79	
George E. Ricker, carpenter work,	24 04	
John R. Thompson, carpenter work	20 79	
S. J. Wright, carpenter work	12 00	
H. S. Brackett, carpenter work	14 26	
C. A. Slager, carpenter work	23 63	
Thomas Gordon, carpenter work,	3 20	
A. D. Brackett, carpenter work	1 50	
D. P. Bucknam, mason work	170 60	
A. C. Winning, mason work	137 08	
J. M. Burckes & Son, mason work	15 15	
J. E. Bell, blackboards	279 83	
G. F. Ericson, repairing furniture,	104 20	
H. W. Covell, plumbing	46 05	
C. W. Cahalan, plumbing	40 11	
James F. Davlin, plumbing	117 92	
D. G. Green, plumbing	66 83	
F. L. Mellen, plumbing	10 88	
W. B. Holmes, plumbing	32 34	
J. W. Johnston, plumbing	37 80	
J. E. Parsons, plumbing	20 53	
Charles A. Holmes, plumbing	165 15	
Young & Maynard, plumbing	36 49	
W. L. Snow, plumbing	3 50	
J. A. Durell, hardware	601 97	
W. I. Heald, hardware	68	
Howe & Flint, hardware	331 63	
<i>Amounts carried forward</i>	\$3,459 46	\$14,847 16

<i>Amounts brought forward</i>	\$3,459 46	\$14,847 16
Whitney & Snow, hardware	58 06	
W. E. Plumer & Co., hardware	46 30	
F. C. Fuller & Son, hardware	81 78	
S. M. Howes & Co., hardware	36 50	
Norton Iron Co., hardware	1 45	
F. D. Snow, hardware	56 00	
J. Lincoln Collins, gate	45 00	
I. H. Brown & Co., lumber	30 67	
S. W. Fuller, lumber	89 66	
Walter Bates & Son, concreting,	250 20	
Jacob Woodberry, blacksmithing,	31 59	
Seward Dodge, blacksmithing	3 06	
Charlestown Gas Co., pipe	10 25	
Somerville Electric Light Co., electrical work	29 00	
J. L. Corthell, electrical work	13 63	
A. A. Sanborn, steam-fitting	53 25	
S. W. Mann & Son, steam-fitting,	128 65	
Braman, Dow, & Co., steam- fitting	1,425 00	
W. L. Sullivan, lettering	150 00	
L. L. Sellev, pine and screws	3 97	
Hinckley Brothers & Co., pine and screws	6 21	
American Sanitary Association, carbolic liquid	3 00	
Charles H. Tufts, painting	147 38	
Fred A. Norris, painting	137 85	
J. Q. Twombly, painting	72 30	
W. J. Logan, painting	10 50	
John T. Sellon, painting	1 90	
J. F. Burton, glazing	34 85	
D. W. McDermott, glazing	9 60	
A. Fisher, glazing	3 00	
Patrick O'Connell, labor	191 47	
Patrick J. Curley, labor	15 00	
<i>Amounts carried forward</i>	\$6,636 54	\$14,847 16

<i>Amounts brought forward</i>	\$6,636 54	\$14,847 16
William H. Kelly, labor	15 88	
N. L. Pennock, labor	5 00	
James Deacon, labor	30 10	
F. A. Wellman, labor	32 50	
E. R. Perham, expressing	36 75	
Conant's Express, expressing	16 40	
M. G. Staples, expressing	3 50	
S. J. Wood, fitting keys, etc.	60 00	
Mary A. Brazillian, rent	190 00	
A. Haderbolets, rent	259 00	
Union-square Baptist Church, rent	175 00	
James L. Whitaker, rent	225 00	
Jeremiah McCarthy, edgestones,	9 50	
Page & Littlefield, mouldings	9 00	
S. Collins, teaming	3 50	
George McKenna, teaming	25 00	
A. M. Prescott, teaming	15 00	
R. M. Johnston, removing soil,	120 00	
J. H. Thompson, carriage hire,	5 00	
P. Derby & Co., furniture	147 35	
Winchester Furniture Co., furni- ture	1,541 61	
A. G. Whitcomb, furniture	1,727 65	
S. Collins, furniture	8 50	
Joel Goldthwait & Co., carpets,	44 86	
W. H. Brine, window shades	252 25	
Samuel Baker, window shades	224 45	
C. W. Lyman & Co., foot rests	12 00	
Frederick R. Cutter, clocks and repairing	137 00	
Moulton C. Libby, clocks and repairing	28 50	
Daniel Crocker, clocks and re- pairing	37 50	
<i>Amounts carried forward</i>	\$12,034 34	\$14,847 16

<i>Amounts brought forward</i>	\$12,034 34	\$14,847 16
H. C. Manning, clocks and re- pairing	26 50	
Charles A. Pearson, papering	6 86	
J. A. Merrifield, stove work	167 39	
N. A. King, reseating chairs	2 75	
E. E. Finan, reseating chairs	75	
Thomas Dowd, plastering	25 95	
L. C. Seavey, roofing	83 70	
H. G. Collins, repairing tools	75	
S. M. Fuller, moving coal	3 00	
John Kennedy, plastering	13 80	
Isaac B. Kendall, premium of insurance	112 50	
Henry H. Baker, premium of insurance	123 75	
Irving S. Perry, premium of in- surance	165 00	
Smith & Robertson, premium of insurance	112 50	
Delaware Insurance Co., pre- mium of insurance	225 00	
Hartford Steam Boiler Insurance Co., premium of insurance	300 00	
D. W. Bennett & Co., premium of insurance	497 25	
Arthur T. Hatch, premium of insurance	112 50	
Crane & Woods, premium of in- surance	645 37	
S. H. Libby, premium of insur- ance	187 50	
	<hr/>	\$14,847 16

SCHOOLHOUSE IN WARD TWO.

CREDIT.

Balance from 1890	\$600 00
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DEBIT.

Balance to 1892	\$600 00
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SCHOOLHOUSE IN WARD TWO, PROSPECT HILL DISTRICT.

CREDIT.

Balance from 1890		\$33,712 32
Appropriations, amount appropriated by borrowing on funded debt account		14,000 00
		<hr/>
		\$47,712 32

DEBIT.

Cash, paid James McNeil on account of contract	\$43,112 36	
Smead Warming & Ventilating Co., heating and ventilating apparatus	2,670 00	
Loring & Phipps, architects	900 00	
Walter Bates & Son, concreting,	173 70	
	<hr/>	
	\$46,856 06	
Balance to credit of account 1892	856 26	
	<hr/>	
		\$47,712 32

SCHOOLHOUSE IN WARD THREE.

CREDIT.

Balance from 1890		\$26,819 98
Appropriations, amount appropriated by borrowing on funded debt account		12,000 00
		<hr/>
		\$38,819 98

DEBIT.

Cash, paid John B. Wilson, on account of contract	\$32,500 00	
Extra work	1,589 60	
O. S. Kendall & Co., heating and ventilating apparatus	2,970 00	
Loring & Phipps, architects	885 37	
Walter Bates & Son, concreting,	101 14	
	<hr/>	
	\$38,046 11	
Balance to credit of account 1892	773 87	
	<hr/>	
		\$38,819 98

TEMPORARY LOANS.

CREDIT.

Balance from 1890		\$323,000 00
Cash, borrowed by authority of the City Council on city notes, as follows, viz. : —		
Commonwealth of Massachu- setts, on three months, at 4 per cent.	\$75,000 00	
The Somerville Hospital, on eight months, at 4½ per cent.,	13,000 00	
Nellie A. Hutchins, guardian, on eight months, at 4½ per cent.	10,000 00	
Nellie A. Hutchins, guardian, on eight months, at 4½ per cent.	15,000 00	
Sinking Fund Commissioners of City of Boston, on six months, at 4½ per cent.	100,000 00	
Sinking Fund Commissioners of City of Boston, on five months, at 4½ per cent.	100,000 00	
Sinking Fund Commissioners of City of Boston, on five months, at 4½ per cent.	100,000 00	
Commonwealth of Massachu- setts, on six months, at 4½ per cent.	50,000 00	
Commonwealth of Massachu- setts, on four months, at 4½ per cent.	100,000 00	
Nellie A. Hutchins, guardian, on four months, at 4½ per cent.	30,000 00	
Brewster, Cobb, & Estabrook, on four months, at 4½ per cent.	20,000 00	
	<hr/>	613,000 00
<i>Amount carried forward</i>		<hr/> \$936,000 00

Amount brought forward \$936,000 00

DEBIT.

Cash, paid as follows :—

Commonwealth of Massachusetts, note dated Nov. 22, 1890	\$75,000 00
F. S. Moseley & Co., note dated Sept. 30, 1890	50,000 00
The Boston Five Cents Savings Bank, note dated Sept. 30, 1890,	100,000 00
Somerville Hospital, note dated Dec. 12, 1890	13,000 00
Nellie A. Hutchins, guardian, note dated Dec. 12, 1890	10,000 00
Nellie A. Hutchins, guardian, note dated Dec. 17, 1890	15,000 00
Commonwealth of Massachusetts, note dated Feb. 24, 1891	75,000 00
The Boston Five Cents Savings Bank, note dated Dec. 30, 1890	60,000 00
Sinking Fund Commissioners of the City of Boston, note dated May 23, 1890	100,000 00
Sinking Fund Commissioners of the City of Boston, note dated June 19, 1890	100,000 00
Sinking Fund Commissioners of the City of Boston, note dated July 2, 1891	100,000 00
	<hr/>
	\$698,000 00
Balance to credit in account 1892	238,000 00
	<hr/>

\$936,000 00

TAXES.

CREDIT.

Cash, received for taxes in 1886	\$4 00	
" " " " 1887	18 44	
" " " " 1888	133 20	
" " " " 1889	25,909 00	
" " " " 1890	68,565 60	
" " " " 1891	389,766 80	
	<hr/>	\$484,397 04

Overlay and Abatement :—

Abatements on taxes in 1885	\$5,041 62	
" " " " 1886	6 00	
" " " " 1887	25 76	
" " " " 1888	29 00	
" " " " 1889	299 40	
" " " " 1890	546 20	
" " " " 1891	7,587 60	
	<hr/>	13,535 58

Balance to debit in account 1892 :—

Being uncollected taxes of 1886	\$4,832 90	
" " " " 1887	5,057 36	
" " " " 1888	4,781 90	
" " " " 1889	6,331 90	
" " " " 1890	43,050 50	
" " " " 1891	141,772 70	
	<hr/>	205,827 26
		<hr/>
		\$703,759 88

DEBIT.

Balance from 1890	\$164,632 78	
Appropriations, amount assessed for current expenses	474,250 00	
State of Massachusetts, amount assessed for state tax	20,670 00	
County of Middlesex, amount as- sessed for county tax	22,188 84	
Overlay and Abatement, amount added by the assessors	22,018 26	
	<hr/>	\$703,759 88
		<hr/>

WATER MAINTENANCE.

CREDIT.

City of Boston water rates, transferred		\$20,000 00
Cash, received of Middlesex Bleachery and Dye Works, pipe, fittings, and labor	\$1,047 19	
American Tube Works, pipe, fittings, and labor	89 03	
Fresh Pond Ice Company, pipe, fittings, and labor	376 15	
North Packing and Provision Co., pipe, labor, and fittings	205 49	
I. H. Brown & Co., pipe, fittings, etc.	39 16	
Irving L. Russell, pipe, fittings, etc.	5 92	
John E. Sylvester, old pipe	2 40	
John Nixon, old pipe	2 00	
John P. Squire & Co., clamps	2 00	
Town of Arlington, clamps	18 00	
S. B. Locke & Co., old iron	40 50	
Frank P. Herrick, old iron	4 58	
F. E. Merrill, old lumber	75	
L. W. Dow, manure	12 00	
Abram French, error in bill	50	
Patrick Quinn, error in pay-roll, Watering Streets account, repair on stand-pipes	10 50	
Water Services, transferred	309 99	
	<hr/>	2,288 19
		<hr/>
		\$22,288 19

DEBIT.

Cash, paid laborers	\$11,426 12	
Nathaniel Dennett, salary as superintendent	1,500 00	
Disbursements	58 52	
	<hr/>	
<i>Amounts carried forward</i>	\$12,984 64	\$22,288 19

<i>Amounts brought forward</i>	\$12,984 64	\$22,288 19
Frank E. Merrill, salary as clerk	900 00	
Disbursements	22 10	
Sidney E. Hayden, salary as engineer	1,100 04	
Fulton O'Brion, grain	248 65	
Hosmer, Crampton, & Hammond, hay and grain	202 67	
Somerville Iron Foundry, castings	98 46	
Osgood & Hart, castings	212 27	
Davis & Farnum Manfg. Co., castings	207 14	
Jaques Bros., pattern work	394 45	
Whittier Machine Co., gates, etc.	133 75	
Holyoke Hydrant & Iron Works, hydrants	74 87	
Star Brass Manfg. Co., brass work	24 00	
Cunningham Iron Works, iron work	17 69	
Boston Bolt Co., bolts	24 60	
Peet Valve Co., gates, etc.	55 00	
Henry R. Worthington, repairs,	6 65	
Worthington Manfg Co., repairs,	1 31	
A. W. Russell, packing	13 96	
Colton & Davis, repairs	1 50	
Dodge, Haley, & Co., tools	25	
J. Baker & Co., tools	1 50	
Julius Baker, tools	2 95	
Edson Manfg. Co., repairs	2 90	
Cary Manfg. Co., repairs	23 20	
Alfred Morgan, frame	2 50	
Boston Lead Manfg. Co., lead	270 28	
Braman, Dow, & Co., bolts	1 04	
<i>Amounts carried forward</i>	\$17,028 37	\$22,288 19

<i>Amounts brought forward</i>	\$17,028 37	\$22,288 19
Chapman Valve Manfg. Co., gates	33 76	
Walworth Manfg. Co., tools	18 04	
American Tube Works, pipe	26 66	
George D. Goodrich, drain pipe,	4 41	
E. R. & E. H. Tarbell, tubing	1 60	
Boston Woven Hose Co., hose	3 00	
Boston Belting Co., packing	2 74	
George B. Buxton, packing	35 16	
James Barker, packing	9 85	
Jenkins Bros., oil cups	23 36	
Samuel Walker & Co., oil	21 69	
E. H. Bradshaw, oil	8 00	
Alden Spear's Sons & Co., oil	9 87	
Howe & Flint, wicking, etc.	3 23	
Andrew J. Morse & Son, hose	32 40	
Waldo Bros., cement, etc.	34 15	
W. M. Hadley, cement, etc.	20 80	
Berry & Ferguson, cement	2 24	
James Baker, marline	50	
George H. Sampson, wire	11 72	
H. Harvey, hardware	10 90	
Whitney & Snow, hardware	87 06	
J. W. Johnson, hardware	3 65	
W. E. Plumer & Co., hardware	139 75	
A. J. Wilkinson & Co., hardware,	4 40	
T. Higgins, hardware	1 00	
W. I. Heald, hardware	40	
James Bartley, barrels, etc.	9 06	
Sewall & Day Cordage Co., manila	17 47	
Chelmsford Foundry Co., iron	1 50	
W. H. Wood & Co., lumber	21 74	
S. W. Fuller, lumber	185 36	
George A. Richards, lumber	8 05	
I. H. Brown, lumber	13 05	
<i>Amounts carried forward</i>	<u>\$17,834 94</u>	<u>\$22,288 19</u>

<i>Amounts brought forward</i> . . .	\$17,834 94	\$22,288 19
Perrin, Seamans, & Co., tools, etc.	40 40	
Thomas Allen, chip stone . . .	11 00	
George W. Trefren, carpenter work	238 03	
F. Ivers & Son, repairing wagon,	13 00	
Brown & Call, repairing wagon .	13 05	
D. W. Crocker, repairing wagon,	23 50	
H. D. Brown, repairing sleigh,	1 75	
D. J. Bennett, harness work . .	35 00	
E. Spaulding, harness work . .	31 50	
Seward Dodge, blacksmithing,	198 82	
F. Dooris, blacksmithing . . .	102 85	
Charles L. Underhill, black- smithing	39 00	
Charles Maguire, horseshoeing,	33 75	
John Kellogg, blacksmithing . .	2 80	
Miller & Shaw, blacksmithing,	21 35	
James F. Davlin, plumbing . . .	70 21	
Davis P. Bucknam, mason work,	14 00	
Wood & Lee, mason work . . .	8 00	
William E. Bucknam, mason work,	5 44	
J. Q. Twombly, glazing	16 48	
Charles F. Pond, painting . . .	146 01	
E. H. Buxton, painting	8 50	
R. Walsh, painting	50	
George McKenna, teaming . . .	40 50	
Daniel Hoar, teaming	469 50	
James Hoar, teaming	16 00	
John Walsh, teaming	22 00	
Owen Cunningham, teaming . .	19 25	
A. B. Prichard, teaming	10 00	
Jeremiah Donovan, labor . . .	2 00	
Union Glass Co., chimneys . . .	25	
Globe Gas Light Co., torch . . .	3 85	
James Breck & Sons, seed . . .	6 20	
J. A. Litchfield, soap, etc . .	10 09	
<i>Amounts carried forward</i> . . .	\$19,509 52	\$22,288 19

<i>Amounts brought forward</i> . . .	\$19,509 52	\$22,288 19
George H. Cowdin, drugs . . .	2 79	
Thomas Hollis, sponges . . .	4 50	
Elias Lathrop, ointment . . .	2 00	
H. Wellington & Co., fuel . . .	444 50	
B. F. Wild & Co., fuel . . .	805 00	
S. M. Fuller, fuel . . .	17 70	
Charles Booth, fuel . . .	5 00	
J. J. Underhill, fuel . . .	1 75	
S. S. Young, fuel . . .	4 13	
P. T. Gayton, charcoal . . .	12 25	
Cambridge Gas Light Co., gas . . .	69 38	
Somerville Electric Light Co., lighting . . .	56 58	
Standard Thermometer Co., thermometer . . .	3 00	
F. W. Barry, Beale, & Co., books, . . .	11 10	
Thomas Groom & Co., stationery, . . .	45 90	
Somerville Journal Co., printing, . . .	4 50	
Citizen Publishing Co., printing, . . .	5 70	
W. A. Greenough & Co., direc- tory . . .	2 50	
Richard Dowd, stove, etc. . .	42 60	
N. E. Telephone & Telegraph Co., rental and tolls . . .	187 18	
G. K. Creighton, use of telephone, . . .	25	
F. E. Studley, use of telephone, . . .	10 40	
V. A. Cook, transmitter . . .	2 50	
H. C. Dodge, brush . . .	5 00	
J. H. Brooks, flannel . . .	3 45	
P. Eberle, rubber boots . . .	12 00	
S. J. Wood, filing saws, etc. . .	7 75	
A. Coleman, weighing . . .	10 43	
Charles R. Simpson, veterinary services . . .	17 00	
Boston & Maine Railroad, labor on Cross-street bridge . . .	35 00	
<i>Amounts carried forward</i> . . .	\$21,341 36	\$22,288 19

<i>Amounts brought forward</i>	\$21,341 36	\$22,288 19
Fitchburg Railroad Co., labor	14 00	
Boston & Albany Railroad Co., labor	11 00	
West End Street Railway Co., gravel and labor	14 31	
E. P. Perham, expressing	50	
Thorpe's Express, expressing	50	
Charles E. Farnham, expressing,	55	
Barker & Tibbetts, expressing	30	
Matthew McCormick, watching,	6 00	
Sundry persons, reporting leaks,	9 00	
City of Boston, water	22 40	
Hartford Steam Boiler Inspec- tion & Ins. Co., insurance	50 00	
Crane & Woods, premium of in- surance	30 00	
Nancy Carleton, compensation for damages	15 00	
Herbert S. Kingman, compensa- tion for damages	75 00	
Eliza P. Munroe, compensation for damages	17 00	
Samuel F. Teele, compensation for damages	20 00	
Sidewalk Assessments, sidewalk on Belmont street	61 69	
	<hr/>	
	\$21,688 61	
Balance to credit in account 1892	599 58	
	<hr/>	
		<u>\$22,288 19</u>

WATER-WORKS EXTENSION.

CREDIT.

Appropriations, amount appropriated by borrowing on funded debt account	\$10,000 00
City of Boston water rates, transferred	35,000 00
	<hr/>
<i>Amount carried forward</i>	\$45,000 00

<i>Amount brought forward</i>		\$45,000 00
Cash, received of North Packing and Provision Co., pipe, fittings, etc.	\$178 46	
Charles M. Hinckley, part cost of laying pipe	100 00	
Middlesex Bleachery & Dye Works, pipe, fittings, etc.	32 37	
Thomas Allen, stone	19 00	
	<hr/>	329 83
Balance from 1890		131 89
		<hr/>
		\$45,461 72

DEBIT.

Cash, paid laborers	\$10,423 78	
Boston Lead Manfg. Co., lead	1,318 60	
Chadwick Lead Works, lead	930 58	
McNeal Pipe & Foundry Co., iron pipe	8,492 12	
R. D. Wood & Co., iron pipe	7,150 65	
Warren Foundry & Machine Co., iron pipe	2,108 90	
Sunner & Goodwin, pipe	195 27	
City of Newton, iron pipe	357 07	
Holyoke Hydrant & Iron Works, hydrants	1,373 65	
Somerville Iron Foundry, cast- ings	574 70	
Osgood & Hart, castings	307 02	
Davis & Farnum Manfg. Co., castings	1,546 57	
Walworth Manfg. Co., castings,	581 32	
Chapman Valve Co., gates	1,315 11	
Peet Valve Co., gates	921 00	
Sewall & Day Cordage Co., packing	69 55	
H. H. Harvey, tools	39 49	
	<hr/>	
<i>Amounts carried forward</i>	\$37,705 38	\$45,461 72

<i>Amounts brought forward</i>	\$37,705 38	\$45,461 72
Perrin, Seamans, & Co., tools	82 40	
Scrannage Bros. & Cook, air valves	7 35	
Samuel Walker Oil Co., oil	9 85	
Cunningham Iron Works, painting stand-pipe	250 00	
Walter Bates, concreting	328 09	
Boston & Maine Railroad, freight	779 51	
Fitchburg Railroad Co., freight,	5 00	
J. E. Mullen, freight on pipe	492 37	
G. W. Whitman, inspecting pipe,	100 00	
George H. Sampson, powder	44 29	
George W. Trefren, carpentering,	28 28	
George A. Richards, lumber	8 00	
Henry Dainty, lumber	1 00	
H. C. Dodge, brush	5 00	
Whitney & Snow, hardware	22 33	
Bernard Cahill, filling	2 05	
W. A. Bertsch, use of derrick	15 00	
F. Dooris, blacksmithing	31 51	
Seward Dodge, blacksmithing	96 24	
H. G. Collins, blacksmithing	34 44	
Miller & Shaw, blacksmithing	70 53	
Charles L. Underhill, blacksmithing	1 75	
Fulton O'Brion, hay and grain	136 87	
Cambridge Gas Light Co., coke,	9 70	
J. A. Porter & Co., fuel	5 00	
George C. Emerson, fuel	3 00	
J. McCarthy's Sons, charcoal	70	
George D. Goodrich, drain pipe,	1 63	
Owen Cunningham, teaming	360 11	
Daniel Hoar, Jr., teaming	213 00	
George F. McKenna, teaming	75 00	
T. F. Crimmings, teaming	30 75	
<i>Amounts carried forward</i>	\$40,956 13	\$45,461 72

<i>Amounts brought forward</i>	\$40,956 13	\$45,461 72
G. S. & W. F. Howe, teaming	49 18	
John Welch, teaming	20 00	
Charles Faulkner, teaming	10 00	
John C. H. Snow, compensation for damages	3 00	
	<hr/>	
	\$41,038 31	
Balance to credit of account in 1892	4,423 41	
	<hr/>	
		<u>\$45,461 72</u>

WATER SERVICES.

CREDIT.

Cash, received of George H. Derby, valve, labor, etc.	\$3 50	
Richard Dowd, pipe	9 30	
Fresh Pond Ice Co., pipe, fittings, etc.	56 02	
James T. Fitzgerald, pipe, fittings, etc.	29 10	
D. C. Griffin, service pipe	15 00	
R. E. Gilman, service pipe	19 52	
Elmer N. Hutchins, stone	8 00	
W. A. Muzzey, pipe, fittings, etc.	19 50	
Malcolm McLane, fittings, etc.	12 20	
James McNeil, service pipe	19 77	
L. B. Pillsbury, service pipe	15 80	
Thomas Spelman, service pipe	30 40	
Tucker & Titus, pipe	16 38	
Hazen Sturtevant, service pipe	14 70	
W. W. Vaughn, lining pipe	19 60	
L. P. Wyman, pipe, fittings, etc.	26 32	
Highways account, fittings, etc.	11 50	
	<hr/>	
	\$326 61	
Water Service Assessments, cost of services laid	9,480 79	
	<hr/>	
		\$9,807 40
<i>Amount carried forward</i>		<u>\$9,807 40</u>

<i>Amount brought forward</i>		\$9,807 40
	DEBIT.	
Cash, paid laborers	\$4,088 69	
Somerville Iron Foundry, cast-ings	1,107 00	
Sumner & Goodwin, pipe and fittings	2,586 15	
Fred. H. Holton & Co., fittings,	443 18	
Henry McShane & Co., fittings,	221 67	
Dalton, Ingersoll, & Co., fittings,	1 76	
Boston Lead Manfg. Co., lead pipe	218 43	
George K. Paul & Co., pipe	329 35	
Chadwick Lead Works, lead pipe,	42 98	
A. A. Sanborn, pipe	2 38	
Walworth Manfg. Co., fittings	137 77	
Sylvester & Co., keys	23 52	
Osgood & Hart, gate boxes	57 37	
Boston Belting Co., washers	12 72	
Boston Bolt Co., fittings	6 24	
Chapman Valve Manfg. Co., valve	3 13	
W. M. Hadley, cement	20 80	
Waldo Brothers, cement	30 00	
Berry & Ferguson, cement	6 72	
Stoughton Rubber Co., gloves	12 27	
William T. Wood & Co., tools	6 00	
James Bartley, naphtha	30	
Thomas Groom & Co., stationery	5 50	
William B. Holmes, plumbing	4 04	
Howe & Flint, plumbing	4 79	
James F. Davlin, plumbing	15 92	
Charles Maguire, blacksmithing,	11 25	
Fulton O'Brion, hay and grain,	97 48	
	<hr/>	
	\$9,497 41	
Water Maintenance, balance transferred	309 99	
	<hr/>	
		<u>\$9,807 40</u>

WATER SERVICE ASSESSMENTS.

CREDIT.

Cash, received of sundry persons, water services		\$9,038 29
Balance to debit in account 1892		2,638 95
		<hr/>
		\$11,677 24

DEBIT.

Balance from 1890	\$2,196 45	
Water Services, service pipes laid in 1891	9,480 79	
	<hr/>	\$11,677 24

WATERING STREETS.

CREDIT.

Appropriations, amount assessed		\$4,000 00
Cash, received of abutters	\$6,889 79	
George F. McKenna, old water- ing cart	25 00	
	<hr/>	6,914 79
Excess and Deficiency, balance to debit of account		1,201 43
		<hr/>
		\$12,116 22

DEBIT.

Cash, paid N. C. Barker, overseeing	\$392 50	
Disbursements	11 05	
Christopher Burke, watering	450 00	
Frank Buttimer, watering	450 45	
T. F. Crimmings, watering	400 50	
Owen Cunningham, watering	514 35	
J. F. Elkins, watering	532 80	
Richard Falvey, watering	459 90	
Charles Faulkner, watering	456 30	
Henry Gray, watering	434 70	
Martin Gill, watering	517 50	
A. M. Prescott, watering	558 45	
A. B. Prichard, watering	438 29	
George McKenna, watering	529 20	
	<hr/>	
<i>Amounts carried forward</i>	\$6,145 99	\$12,116 22

<i>Amounts brought forward</i>	\$6,145 99	\$12,116 22
Henry McEvoy, watering	448 65	
Jeremiah McCarthy, watering	447 30	
John Walsh, watering	517 95	
City of Boston, water	3,300 34	
Proctor Brothers & Billings, watering cart	365 00	
Harry T. Walsh, watering cart	350 00	
L. A. Wright, repairing cart	29 00	
J. L. & H. K. Potter, repairing cart	125 00	
Charles W. Ingalls, repairing cart,	18 35	
F. H. Flagg, repairing cart	23 25	
James Miller, repairing cart	4 30	
W. J. Logan, painting carts	108 00	
Boston Woven Hose Co., hose	42 13	
Seward Dodge, blacksmithing	45 29	
W. E. Plumer & Co., hardware	39	
James F. Davlin, plumbing	75	
Charles L. Underhill, repairing stand-pipe	3 50	
Thomas Groom & Co., books	1 00	
McDonnell Bros., advertising	6 00	
Somerville Journal Co., advertis- ing	6 00	
Citizen Publishing Co., advertis- ing	6 00	
Water Maintenance account, re- pairs on stand-pipes	122 03	
	<hr/>	<u>\$12,116 22</u>

WATER LOAN INTEREST.

CREDIT.

City of Boston water rates, transferred	\$5,150 80
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DEBIT.

Balance to credit in account 1892	\$5,150 80
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TABLE D.

BALANCES DECEMBER 31, 1891.

Cash	\$37,007 03	
Public Property	1,685,637 46	
Real-Estate Liens	888 40	
State of Massachusetts, State Aid	5,480 00	
State of Massachusetts, Indigent Soldiers and Sailors	418 50	
State of Massachusetts, Burial of Indigent Soldiers and Sailors,	87 50	
Sidewalk Assessments	3,585 43	
Sewer Assessments	8,172 53	
Taxes	205,827 26	
Water Service Assessments	2,638 95	
Funded Debt		\$1,045,500 00
Highland Schoolhouse Addition,		318 03
Overlay and Abatement		13,115 44
Overplus on Tax Sales		102 13
Property and Debt Balance		640,137 46
Public Library		3 48
Sundry Persons		162 60
Schoolhouse in Ward Two		600 00
Schoolhouse in Ward Two, Pros- pect Hill District		856 26
Schoolhouse in Ward Three		773 87
Temporary Loans		238,000 00
Water Maintenance		599 58
Water-works extension		4,423 41
Water Loan Interest		5,150 80
	<u>\$1,949,743 06</u>	<u>\$1,949,743 06</u>

REPORT
OF THE
SCHOOL COMMITTEE.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, }
February 10, 1892. }

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence. .

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 11, 1892.

Referred to the committee on printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

SCHOOL COMMITTEE, 1891.

HON. CHARLES G. POPE, Mayor, Chairman, *ex officio*.

FRANK E. DICKERMAN, President of the Common Council, *ex officio*.

MEMBERS.

WARD ONE.

S. NEWTON CUTLER, 28 Flint Street	Term expires 1891.
HORACE C. WHITE, M. D., 149 Perkins Street	“ “ 1892.
SANFORD HANSCOM, M. D., 1 Webster Street	“ “ 1893.

WARD TWO.

A. H. CARVILL, M. D., 18 Bow Street	Term expires 1891.
JAMES F. BEARD, 17 Prospect Hill Avenue	“ “ 1892.
T. M. DURELL, M. D., 23 Bow Street	“ “ 1893.

WARD THREE.

NORMAN W. BINGHAM, 235 School Street	Term expires 1891.
Q. E. DICKERMAN, Highland Avenue	“ “ 1892.
HELEN J. SANBORN, 383 Broadway	“ “ 1893.

WARD FOUR.

Mrs. ADDIE B. UPHAM, 36 Newbury Street	Term expires 1891.
GILES W. BRYANT, M. D., 396 Highland Avenue	“ “ 1892.
MARTIN W. CARR, Craigie Street	“ “ 1893.

C. E. MELENEY, Superintendent and Secretary, 40 Greenville Street.

Office, 4 Walnut Street. Office hours, from 4 to 5 P. M., each day that the schools are in session.

STANDING COMMITTEES, 1891.

High School. — MESSRS. BINGHAM, Q. E. DICKERMAN, CARVILL, DURELL, WHITE, CUTLER, CARR, MRS. UPHAM.

Schools in East Somerville District. — MESSRS. CUTLER, HANSCOM, WHITE.

Schools in Prospect Hill District. — MR. BEARD, MAYOR POPE, MESSRS. CARVILL, DURELL.

Schools in Winter Hill District. — MESSRS. Q. E. DICKERMAN, F. E. DICKERMAN, MISS SANBORN, MR. BINGHAM.

Schools in Spring Hill District. — MR. CARR, MRS. UPHAM, DR. BRYANT.

Schools in West Somerville District. — MRS. UPHAM, MESSRS. CARR, BRYANT.

Rules and Regulations. — MESSRS. CUTLER, BRYANT, Q. E. DICKERMAN.

Examination of Teachers. — MRS. UPHAM, MESSRS. Q. E. DICKERMAN, HANSCOM.

Text-Books. — MESSRS. Q. E. DICKERMAN, HANSCOM, CARR, MISS SANBORN, MESSRS. WHITE, DURELL, BEARD.

Music. — DR. DURELL, MRS. UPHAM, DR. HANSCOM, MISS SANBORN.

Evening Schools. — MESSRS. CARR, Q. E. DICKERMAN, HANSCOM, CARVILL.

Drawing and Penmanship. — MISS SANBORN, MESSRS. BEARD, Q. E. DICKERMAN, DURELL.

Industrial Education. — DR. CARVILL, MRS. UPHAM, MISS SANBORN, MESSRS. CARR, BEARD, CUTLER.

Approval of Private Schools. — MESSRS. F. E. DICKERMAN, BEARD, BRYANT.

School Supplies. — MESSRS. WHITE, BINGHAM, CARVILL, CARR.

Finance. — MESSRS. BEARD, F. E. DICKERMAN, HANSCOM.

Salaries. — MESSRS. BRYANT, CUTLER, BINGHAM, DURELL.

Repairs and Heating Apparatus. — MESSRS. HANSCOM, CARVILL, CUTLER, BRYANT.

Additional School Accommodations. — MAYOR POPE, MESSRS. CUTLER, BEARD, Q. E. DICKERMAN, CARR.

Fuel. — MESSRS. CARVILL, F. E. DICKERMAN, BINGHAM.

Examination of Ninth Class. — MESSRS. BRYANT, CARVILL, HANSCOM.

Examination of Eighth Class. — MESSRS. BEARD, Q. E. DICKERMAN.

Examination of Seventh Class. — MESSRS. CARR, WHITE.

Examination of Sixth Class. — MISS SANBORN, MR. CUTLER.

Examination of Fifth Class. — MESSRS. Q. E. DICKERMAN, DURELL.

Examination of Fourth Class. — MRS. UPHAM, MR. BINGHAM.

SCHOOL COMMITTEE, 1892.

HON. WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.

ISAIAH H. WILEY, President of the Common Council, *ex officio*.

MEMBERS.

WARD ONE.

HORACE C. WHITE, M. D., 149 Perkins Street	Term expires 1892.
SANFORD HANSCOM, M. D., 1 Webster Street	“ “ 1893.
S. NEWTON CUTLER, 28 Flint Street	“ “ 1894.

WARD TWO.

JAMES F. BEARD, 17 Prospect Hill Avenue	Term expires 1892.
THOMAS M. DURELL, M. D., 23 Bow Street	“ “ 1893.
ALVAH B. DEARBORN, M. D., 34 Bow Street	“ “ 1894.

WARD THREE.

Q. E. DICKERMAN, 85 Central Street	Term expires 1892.
HELEN J. SANBORN, 383 Broadway	“ “ 1893.
NORMAN W. BINGHAM, 235 School Street	“ “ 1894.

WARD FOUR.

GILES W. BRYANT, M. D., 396 Highland Avenue	Term expires 1892.
MARTIN W. CARR, 74 Craigie Street	“ “ 1893.
PROF. BENJAMIN G. BROWN, 38 Professors' Row	“ “ 1894.

C. E. MELENEY, Superintendent and Secretary, 40 Greenville Street.

Office, 4 Walnut Street. Office hours from 4 to 5 P. M., each day that the schools are in session.

STANDING COMMITTEES, 1892.

- High School.* — MESSRS. DICKERMAN, BEARD, DURELL, WHITE, CUTLER, CARR, BROWN, BINGHAM.
- Schools in East Somerville District.* — MESSRS. HANSCOM, WHITE, WILEY, CUTLER.
- Schools in Prospect Hill District.* — MESSRS. DURELL, BEARD, DEARBORN.
- Schools in Winter Hill District.* — MISS SANBORN, MR BINGHAM, MAYOR HODGKINS, MR. DICKERMAN.
- Schools in Spring Hill District.* — MESSRS. CARR, BRYANT, BROWN.
- Schools in West Somerville District.* — MESSRS. BRYANT, BROWN, CARR.
- Rules and Regulations.* — MESSRS. BRYANT, DICKERMAN, CUTLER.
- Finance.* — MESSRS. CARR, HANSCOM, WILEY, BEARD.
- Additional School Accommodations.* — MAYOR HODGKINS, MESSRS. HANSCOM, DURELL, MISS SANBORN, MR. CARR.
- Repairs.* — MESSRS. WHITE, BRYANT, BINGHAM, BEARD.
- Supplies.* — MESSRS. BINGHAM, CARR, DURELL, WHITE.
- Text-Books.* — MESSRS. HANSCOM, CARR, MISS SANBORN, MESSRS. WHITE, DURELL, BEARD, DICKERMAN.
- Industrial Education.* — MR. BEARD, MISS SANBORN, MESSRS. CARR, CUTLER, DICKERMAN.
- Music.* — MISS SANBORN, MESSRS. HANSCOM, CARR, DEARBORN.
- Examination of Teachers.* — MESSRS. BROWN, DICKERMAN, HANSCOM.
- Salaries* — MESSRS. CUTLER, BINGHAM, DEARBORN, BROWN.
- Evening Schools.* — MESSRS. DURELL, DICKERMAN, HANSCOM, CARR.
- Examination of Ninth Class.* — MESSRS. DICKERMAN, BEARD.
- Examination of Eighth Class.* — MESSRS. WHITE, CARR.
- Examination of Seventh Class.* — MR. CUTLER, MISS SANBORN.
- Examination of Sixth Class.* — MESSRS. DURELL, DICKERMAN.
- Examination of Fifth Class.* — MESSRS. BINGHAM, BROWN.
- Examination of Fourth Class.* — MESSRS. DEARBORN, HANSCOM, BRYANT
- Private Schools.* — MESSRS. DEARBORN, BRYANT, WILEY.

SUPERINTENDENT'S REPORT.

To the School Committee of the City of Somerville:—

LADIES AND GENTLEMEN, — In compliance with the rules of the School Board, I have the honor of submitting my fourth annual report of the public schools of this city for the year 1891, this being the twentieth annual report of the superintendent of schools.

A summary of the statistics shows the following:—

Population of the city, United States census, 1890	40,117
Number of persons in the city between five and fifteen years of age in May last	6,800
East Somerville District	1,258
Prospect Hill District	2,603
Winter Hill District	1,016
Spring Hill District	1,036
West Somerville District	887
Total	6,800
	Increase.
	45
	126
	19
	60
	81
	331
Number between eight and fourteen years of age	4,249
Whole number of different pupils registered	8,510
Average whole number belonging	6,502
Average attendance	6,091
Valuation of the city May 1, 1891	\$36,843,400 00
Real estate	\$32,767,200 00
Personal estate	4,076,200 00
Rate of taxation	.014
Estimated value of school property	
Expenditures by the school board	\$137,546 12
Teachers' salaries	\$110,615 92
Salaries of officers and janitors	11,993 61
Books, supplies, water, and light	14,936 59
Expenditures by the city government	113,672 29
Buildings and improvements	90,793 20
Repairs, etc. (Schoolhouse Incidental account)	14,847 16
Fuel	8,031 93
Total	\$251,218 41

SECTION I.

REVIEW OF THE MINUTES.

The School Board of 1891 organized with a new *ex-officio* member, the president of the Common Council, Mr. F. E. Dickerman, and two elected members, Dr. Thomas M. Durell, of Ward Two, and Miss Helen J. Sanborn, of Ward Three.

The following subjects have occupied the attention of the board and its committees during the year :—

- Rules and Regulations.
- Course of Study.
- Text-books.
- Salaries.
- Industrial Education.
- Additional School Accommodations.

RULES AND REGULATIONS.

April 27. The board accepted the following recommendation made by the committee on rules at the previous meeting: The pay of substitutes shall be as follows: For first or second year's experience, \$1.50 a day; for second or third year's experience, \$2.00 a day; for fifth year's experience, \$2.50 a day; which shall be the maximum.

May 25. The committee on rules submitted a final report on revision of the rules, which was adopted as reported; amendments relating to spring vacations and sessions of the High School having been voted down.

COURSE OF STUDY.

September 28. Mr. Dickerman, chairman of the special committee on course of study, submitted the proposed new course in manuscript.

Mr. Cutler moved that the committee take into consideration the advisability of introducing the elective system in the High School, and the addition to the course of study for the ninth grade of the subjects of geometry, algebra, and Latin.

October 26. The report of the committee on course of study was presented in the form of proof copies of the prepared course.

After discussion, it was moved that the committee be enlarged to five, and the report be referred back to the committee, with instructions to report at the next meeting. Voted. Dr. Hanscom and Miss Sanborn were added to the committee.

November 30. The committee reported that they had agreed upon the course of study presented at the last meeting, and it was moved that it be adopted, and that the committee have power to make any change in the phraseology that might be necessary after the proofs came from the printer. Carried.

Dr. Hanscom moved that the committee on supplies have power to have the course of study printed in such manner and number as should seem to them desirable. Voted.

TEXT-BOOKS.

March 30. The committee on text-books submitted a report with the following recommendations:—

1. That the charts of the Normal System of Music, with the accompanying manuals, be adopted for use in the first, second, and third grades of the schools.

2. That King's Geographical Reader, No. 2, be added to the list of supplementary reading for use in the fifth grade.

3. That Blaisdell's "How to Keep Well" be purchased in sets of fifty for use as a reader in the three highest grammar grades, and that the committee on supplies be authorized to furnish a set to each building having seventh grade classes.

The report was considered in detail. The first recommendation was adopted, ten for, one against. The second and third adopted by unanimous vote.

May 25. The committee on text-books reported, recommending—

1. That a change of geographies be postponed.

2. That the Information Reader be adopted for the sixth grade as a supplementary reader.

3. That the board authorize the purchase of three sets of blocks for teaching mensuration.

4. That Southworth and Goddard's Elements of Composition and Grammar be supplied to the seventh grades; and that Swinton's Language Lessons be discontinued in the sixth and seventh.

The report was accepted and the several recommendations adopted.

June 29. The committee on text-books reported in favor of the adoption of Southworth and Goddard's First Lessons in Language for use in the fifth and sixth grades, one set to be furnished to each building, and desk copies for teachers of the fourth grade; also, that Mowry's Elements of Civil Government be adopted for use in the ninth grade. The report was received and the recommendations adopted.

September 28. The committee on text-books submitted the following report, which was accepted and the recommendations adopted, viz.:—

1. That Barnes' Elementary Geography be added to the list of supplementary text-books for the fourth grade, to be purchased in sets of twenty-five.

2. That Maury's Physical Geography be supplied as a desk-book for the teachers of the seventh, eighth, and ninth grades.

3. That Harper's New Elementary Geography be supplied to the fifth and sixth grades; and

4. That Harper's New School Geography be supplied to the seventh and eighth grades.

November 30. The committee on text-books recommended that the First Normal Music Reader be adopted in the fourth grade.

SUPPLEMENTARY READING.

February 20. The committee on supplies spoke in favor of establishing a plan for circulating some of the sets of supplementary reading, and moved that they have power to order boxes made for the books. Voted.

SALARIES.

June 29. The committee on salaries recommended that the salaries of janitors be at the rate of sixty dollars a room per annum, with the exception of the janitor of the High School, which was to remain as at present. Accepted and adopted.

September 28. The salary of the janitor was raised \$100, making it \$700; and the salaries of the janitors of the Bingham, Burns, and Lincoln Schools were fixed October 26 at \$300 each per annum.

INDUSTRIAL EDUCATION.

February 20. The report of the committee on industrial education was accepted, and the following recommendations adopted, viz. :—

That the committee on supplies be empowered to supply the boys of the sixth and seventh grades with drawing kits.

That the finance committee be instructed to include \$500 in the salary account for a teacher of elementary tool instruction.

That the City Government be requested to appropriate \$200 to defray the expenses of holding a summer school in wood-work.

June 30. It was voted that the committee on drawing be authorized to select and nominate a director of drawing, the salary not to exceed \$700 (Miss Herrick having resigned).

ADDITIONAL SCHOOL ACCOMMODATION.

February 20. The committee on additional school accommodations presented the following report, viz. :—

At the meeting of the School Board held January 12, 1891, three matters were referred to this committee :—

1st. A petition from residents of Ward Four, asking for the erection of a schoolhouse in that ward on the south side of the Fitchburg Railroad.

2d. A request from the East Somerville District committee, that the needs of that district be considered with special reference to increasing the accommodations of the Edgerly School.

3d. The subject of increased accommodations for the High School.

After careful consideration, the undersigned, a majority of the committee, beg to offer the following recommendations :—

1st. That the petition from Ward Four be placed on file for future consideration.

2d. That the City Council be requested to erect an addition of four rooms to the Edgerly schoolhouse.

(Signed)

S. NEWTON CUTLER.

MARTIN W. CARR.

Q. E. DICKERMAN.

The undersigned, a minority of the committee on additional school accommodations, offer the following recommendations:—

1st. That the petition from Ward Four be placed on file for future consideration.

2d. That the City Council be requested to erect a new High School house on Central Hill Park, said building to be arranged for use chiefly as an English High School, with laboratories and equipments, including also accommodations for the departments of industrial education and military drill.

Respectfully,

S. NEWTON CUTLER.

JAMES F. BEARD.

MARTIN W. CARR.

The first recommendation was adopted, as were also the recommendations in regard to the Edgerly and High Schools.

June 29. The committee on High School reported recommending that the City Government be requested to provide additional accommodations for the High School and improve the ventilation of the building. Accepted and adopted.

October 26. The superintendent presented a report on the crowded condition of the High School, with a table of figures showing the comparative numbers in several high schools of the State, and urged that some action be taken to relieve the pressure. The report was accepted and referred to the committee on High School.

November 30. The High School committee reported recommending that the board request the City Government to fit up the Brastow building for two High School classes. Accepted and approved.

The superintendent read a report on the growth and size of the High School, making comparisons with other schools of the State, and showing that there is great need of a new building and greater facilities to meet the wants of a growing city.

Dr. White spoke of the crowded condition of the High School, and advocated making a united effort to have a new High School building.

The matter was referred to the committee on additional school accommodations.

VENTILATION.

September 28. The committee on High School recommended that the City Government be requested to take action at once to secure more thorough ventilation for the High School, and to allow the proprietors of "Germicide" to put their apparatus into the building on the conditions named by them. Adopted.

MILITARY DRILL.

There has been considerable discussion and legislation by the board during the year on the subject of military drill in the High School, particularly with reference to the purchase of guns and equipments.

On March 30 the committee on supplies was directed to purchase guns of such weight and in such numbers as should be approved by a special committee, consisting of the physicians of the board.

The members of the committee reported individually at the April meeting, and the matter was laid on the table. At the next meeting the subject was taken from the table and the purchase by the committee on supplies authorized.

On June 29, at the recommendation of the committee on supplies, it was voted to request the City Government to provide a suitable place for storing and keeping 200 guns and equipments for the High School Battalion.

On September 28, the City Government not having responded to this request, the High School committee recommended that (in view of this fact and other unfavorable circumstances) the military drill be suspended for the present.

RECESS.

January 12. Voted, that in the grammar and primary schools, under the direction of the district committees, the recess may be occupied in gymnastic exercises, at the option of the principal, provided that those pupils who need to leave the room during the session are allowed to do so without restraint of any kind.

MISCELLANEOUS.

February 20. A letter was read from Mr. John M. Woods, offering a set of specimens of wood used in the arts to each of the grammar schools, and a prize of \$10.00 for the best essay on forests.

The superintendent announced that he had accepted the first offer, and the specimens had been received.

The board voted to accept the second offer, and instructed the superintendent to express the thanks of the board.

April 27. A communication was received from W. C. Kinsley Post, G. A. R., inviting the High School Battalion to join in the parade on Decoration Day, which was received and referred to the High School committee, with power.

April 27. The superintendent presented a report on the finances, and submitted a table showing the comparative expenditures of twenty-five cities and towns, which was accepted and placed on file.

August 31. A communication was received from Councilman W. L. Barber, offering a flag for the Glines School. The gift was accepted with the thanks of the board.

October 26. Mr. Beach announced that a fine marble clock had been placed in the Charles G. Pope School by his honor the mayor, in appreciation of the naming of the school for him, and moved that the thanks of the board be conveyed to him for the same, which was voted.

November 30. Mr. Beard, chairman of the finance committee, moved that the City Government be requested to make provision for the school contingent account, and that the secretary be directed to make a statement of the demands on that account. Voted.

November 30. The superintendent made a statement in regard to the appointment of teachers, and requested that a special committee be appointed to take into consideration the training of teachers.

Mr. Beard moved that a committee consisting of one from each ward be appointed for this purpose.

The chair appointed Mr. Beard, Mr. Cutler, Mr. Dickerman, and Mr. Carr.

There have been thirteen resignations of teachers, twenty-one transfers, twenty-seven elections of new teachers, and five teachers have been granted leave of absence.

RESIGNATIONS OF TEACHERS, 1891.

High School, Mabell S. Clark, Sept. 28.
 Forster School, Clara A. Jordan, April 27.
 Bingham School, Mary A. Osborne, March 30.
 Edgerly School, Mrs. Enola C. Brainard, June 29.
 L. V. Bell School, Nellie A. Knowlton, Sept. 28.
 Lilian A. Wellington, Aug. 31.
 Alice L. Curtis, Nov. 30.
 Prospect Hill School, Ellen Ledyard, May 25.
 Kate R. Miles, Aug. 31.
 Highland School, Mary E. Brown, Nov. 30.
 Lilias M. Bryden, Aug. 31.
 Lincoln School, Annie C. Thayer, June 29.
 Supervisor of Drawing, Lizzie A. Herrick, June 29.

TEACHERS GRANTED LEAVE OF ABSENCE.

High School, George L. Baxter, Principal, Nov. 30, three months.
 Prospect Hill School, Ellen Ledyard, March 30, for rest of year.
 O. S. Knapp School, Rubie M. Stetson, June 29.
 Morse School, Anna Pushee, May 25, one year.
 Mary A. Haley, Aug. 31, one year.

NEW TEACHERS APPOINTED.

Winter Hill District.

High School, Daisy Hoyt, March 30.
 Annie E. French, Sept. 28.
 Forster School, Blanche E. Heard, March 30.
 Margaret A. Orr, June 29.
 Glines School, Annie J. Reed, Aug. 31.
 Nellie A. Boynton, Sept. 28.
 Bingham School, Hattie L. Devereau, Principal, Aug. 31.
 Florence E. Baxter, June 29.
 Cedar-street School, Elizabeth G. Boardman, Sept. 28.

East Somerville District.

Edgerly School, Annie L. Dimpsey, June 29.
 Martha M. Power, June 29.
 Emma L. Zeigler, Aug. 31.

Prospect Hill District.

L. V. Bell School, Alice L. Curtis, Aug. 31.
 Anna L. Alger, Aug. 31.
 Martha E. Daniels, Aug. 31.
 Charles G. Pope School, George M. Wadsworth, Principal,
 Aug. 31.
 O. S. Knapp School, Maizie E. Blaikie, May 25.
 Minnie A. Perry, May 25.
 Emma Frye, June 29.
 Dorcas C. Higgins, Sept. 28.
 Prospect Hill School, Clara B. Sackett, June 29.
 Kate R. Miles, May 25.

Spring Hill District.

Morse School, Lizzie E. Hill, June 29.
 Beech-street School, Emma T. Tower, Jan. 26.

West Somerville District.

Highland School, Mary H. Knight, Feb. 20.
 Mary E. Brown, Aug. 31.
 Hallie M. Hood, Sept. 28.

TRANSFER OF TEACHERS.

	From	To
Mrs. C. H. Dimpsey,	Bingham School,	J. T. Glines School.
Florence E. Baxter,	Bingham School,	J. T. Glines School.
Margaret A. Orr,	Forster School,	J. T. Glines School.
Emma Burckes,	Brazillian Hall,	J. T. Glines School.
Amy C. Hudson,	Edgerly School,	Morse School.
Alice I. Norcross,	L. V. Bell School,	C. G. Pope School.
Frances A. Wilder,	L. V. Bell School,	C. G. Pope School.
Ellen P. Longfellow,	O. S. Knapp School,	C. G. Pope School.

	From	To
Maizie E. Blaikie,	O. S. Knapp School,	C. G. Pope School.
Mary C. Jones,	Prospect Hill School,	C. G. Pope School.
Clara B. Sackett,	Prospect Hill School,	C. G. Pope School.
Maria Miller,	Prospect Hill School,	C. G. Pope School.
Emily G. Arnold,	Prospect Hill School,	C. G. Pope School.
Lizzie W. Parkhurst,	Brastow School,	C. G. Pope School.
Lillian C. Albee,	Brastow School,	C. G. Pope School.
Florence O. Bean,	Bennett School,	Prospect Hill School.
Lena G. Allen,	Jackson School,	O. S. Knapp School.
Minnie A. Perry,	Union School,	O. S. Knapp School.
Hallie M. Hood,	Morse School,	Highland School.
Florence B. Ashley,	Harvard School,	Beech-street School.
Eula M. Byrns,	Harvard School,	L. V. Bell School.

At the beginning of the year a new rule went into effect, requiring the several committees having charge of work requiring the expenditure of money to inform the committee on finance how much should be asked for to run the schools during the year. These committees met, and, with all the information available, made out their estimates, in some cases cutting down the figures submitted by the clerk, and in all cases making a very conservative budget. The school teachers' salaries footed up \$107,000, and the total of school contingent amounted to \$27,529. The finance committee reported an estimate of \$105,000 for school teachers' salaries, and \$25,000 for the school contingent. The appropriation made by the city government was: For teachers' salaries, \$102,000; and for school contingent, \$21,000. It was apparent at the outset that the schools could not be maintained on these appropriations.

When the first pay-rolls of the year were received at the City Hall, his honor the mayor requested an interview with me, in which he wished me to explain the large pay-roll on school teachers' salary account and the school contingent account. Recognizing this as right and proper on the part of the chief magistrate of our city and the chairman of the School Board, I replied as best I could, and before the next meeting of the board prepared a report on the subject, accompanied with a table of comparative statistics, showing the standing of Somerville in comparison with twenty-four other cities in the State.

With a knowledge of the exact state of affairs, and with an

earnest desire to meet the financial situation at the City Hall, your committees have curtailed every possible expense. Requisitions from the principals have been cut down or laid over again and again. The reopening of the Highland School last January necessitated a large expenditure to replace books that had been destroyed during the progress of the alterations in the building. The equipment of two new schools this year entailed a heavy expenditure for books and everything that is required for the successful running of a school. Further than this, your committees have expended nothing above the ordinary every-day needs. The result is that the October pay-rolls on school contingent account showed an over draft, and the November pay-rolls have not been provided for. Is it not possible to secure the coöperation of the City Government in the matter of the appropriations, in order that salaries and just bills may be paid when due, and thus save the credit and good name of the city?

THE SCHOOL DISTRICTS.

The plans adopted by the City Government of 1890 for the erection of two new school buildings have been carried out by the present administration. The Charles G. Pope School, on Washington street, in Ward Two, and the Jacob T. Glines School, on Jaques street, Ward Three, were opened October 26. A full description of the buildings is to be found in the last annual report. By this opening we have been able to relieve the greatly crowded schools in these wards. None but the committee of the Prospect Hill District could possibly realize the need of a new grammar school in Ward Two, and none but those more closely connected with the schools in that district could comprehend the difficulty of the situation when the Bell School was the centre of the system which embraced the schools in ten buildings and taught by forty-six teachers. When the district was reorganized this summer it was found necessary to retain the eighth class at the Knapp, thus making it a full grammar school, besides organizing the Pope School with nine grades and occupying the whole building. It was also necessary to continue thirteen classes at the Bell School and four at the Prospect Hill, which left the Brastow (two rooms) and the Union (one room) vacant. Two of the classes at the Prospect Hill belong to the Knapp School—the fifth and sixth grades. This arrangement is very unsatisfactory, but

was the best that could be made. It is hoped that some provision may soon be made by which they may attend the Knapp School. This should have been a twelve-room building, and its enlargement seems to be only a question of time. The section of the city in which the school is situated is growing very fast, and must be provided for.

The report of my predecessor for the year 1887 contained the following statement of the wish of the School Board for that year: "For the accommodation of pupils residing south of the Fitchburg Railroad . . . the School Board at their meeting in February last passed an order requesting the City Council to construct in Ward Two and south of the Fitchburg Railroad a school building that will contain eight school-rooms, and to construct it in such a manner that *four* school-rooms may be added whenever the necessities of the neighborhood where it will be located may require them."

The wisdom and foresight of the School Board is now vindicated. The necessities of the neighborhood now require the additional four rooms, and we hope the plan of the building will admit of its enlargement by the addition of four rooms.

The opening of the Glines School, with five classes, has relieved the crowded condition of the Forster School, but has not provided for the increase of the Bingham, caused by the rapid growth of that section. It became necessary to open the other room in the Cedar-street building, and sixty pupils are now enrolled in the two rooms.

The enlargement of the Bingham School, suggested in the last report, will, before long, demand attention.

The schools in the East Somerville District have increased since the year began, and the demands made by the local committee and the citizens last year are emphasized by the conditions now presented. The Prescott, Edgerly, and Davis schools have all called for additional assistants in the primary classes as the one practical means of accomplishing the work to be done with the increased numbers. The relief of the Edgerly School, recommended last year, is still a matter for consideration.

The problems of the accommodation of the Spring Hill District, which we supposed to have been settled by the enlargement of the Morse building, are again coming up for reconsideration. In May, 1890, the Spring Hill and Beech-street buildings were closed, and the schools absorbed into the Morse. Last spring one room was

reopened in the Beech-street, and in September the other was also occupied by the overflow from the Franklin. At the same time the Harvard was obliged to shelter two classes instead of one. The Burns was supplied with an extra assistant, and the Morse has now filled the extra room and the little recitation room on the first floor. The Beech-street building is no more fit for school purposes than when it was condemned two years ago, and the Franklin and Harvard buildings have not improved since the old-time judgment passed upon them years ago. The district south of the Fitchburg Railroad is rapidly filling up, and the citizens are calling loudly for a new school.

The city has been doing a grand work in the erection of new buildings and the enlargement of old ones; but we must not forget that the city is growing very fast and that something must be done each year. In no other way can we keep pace with our growth. We must not content ourselves because of the erection of two new buildings and suppose that the problem is solved for years to come.

The Highland School has already filled the additional four rooms, and this growing section will before long demand a new building.

It will be clear by this outlook that the city must not expect to pause in the building of schoolhouses. Every year that goes by without action will only embarrass future administrations. New buildings in all the school districts will be imperatively demanded within a few years. It is necessary, therefore, to take immediate steps towards the erection of

A NEW HIGH SCHOOL.

For several years the growth of the High School has called the attention of the board and the City Government to the urgent need of providing more room and better facilities for this important department. It has, in fact, become an old story. Something must now be done. I have recently presented to you some facts in regard to the experience of other cities, and some comparative tables showing the condition and progress of high schools of the State.

These I will not repeat at this time. The solution of problems in other cities similar to ours ought to furnish valuable information to enable us to come to an intelligent decision as to what ought to be done.

In the East the establishment of English High Schools is coming to be recognized as a wise expedient. In the West there is no longer any discussion upon the subject, as every city of the size of Somerville has its English or Manual Training High School. Boston long ago recognized the principle. Cambridge and Lynn have two flourishing schools. Worcester is building a new English High School.

Fall River, in its fine memorial High School, costing half a million dollars, is provided with all possible courses. Lowell is now agitating the subject. These are the cities larger than Somerville in school membership. Our school is so large that it cannot be accommodated in the present building, and is too large for any one building. The most practical method for its relief is a division by courses into a classical and an English school. This subject has been so fully treated in former reports and so carefully considered by the committees, that I will be very brief in this presentation of the case. In deciding upon the wisdom of the establishment of an English High School in a building separate and apart from the regular high school, school boards have been guided from the educational point of view, mainly by the following considerations. This is practically a consensus of the views of those experienced in these matters :—

1. There is no longer any doubt that such a school is demanded by the requirements of the times and by the people, who desire a higher education than the grammar schools afford. Such a school is sure to live, and does not need to be started experimentally as an adjunct to a regular high school.

2. It is capable of attaining equal honor and furnishing as ample and comprehensive education, even to the extent of preparing boys for college, as the ordinary high school. It, consequently, demands a place of equal rank, which it could not attain as a mere department.

3. The pupils taking the course prescribed are equal to any in honor, in intelligence, and in their possibilities, which, however, are not recognized in students of an English course in the same institution with classical students.

4. As a rule, high-school teachers are not inclined to esteem students of an English course as highly as they do those of a classical course, nor do they take so deep an interest in the studies and work

of such a department. Consequently, the English courses suffer at the expense of the classical; whereas the existence of a separate school would guarantee a faculty wholly in sympathy with its courses and its students. There would also be a healthy rivalry, stimulating to both.

5. The average classical teacher does not recognize all the studies of the English High School as essential, nor does he sympathize with the methods employed. It is, consequently, impossible to secure and maintain the work of an English High School under the management of the regular high-school teachers. This might not be the case here, but it is the generally accepted opinion.

6. The work of the English High School is so different in many subjects from that of a classical school that one would interfere with the other or would be interrupted in its progress. There would be many disturbances. The progress now being made in the matter of elective courses would also tend to complicate the programme of exercises in one large school, whereas it would be greatly simplified in two buildings. Students should be in a building with those who are most closely associated with them in the courses pursued. They should have the same interests in common; the atmosphere of the school should be of one clime, as it were, and not charged with conflicting and disintegrating elements.

These are not merely my theories, drawn from imagination or from observation of our present conditions, but the common views held by many who have given attention to the subject, gathered and summarized from reports, articles, and conferences.

There are other considerations of a local nature which every city has to recognize in concluding such an important matter, such as the size of the school, the present building, the possibility of enlargement, the availability of lots, the community, etc. I have no doubt that the board will carefully consider all arguments, thoroughly investigate the situation, and learn the experience of other cities that have had this problem to solve.

I will not at this time attempt to outline the courses that ought to be provided in an English High School, nor to describe the methods that would be employed in carrying out the work. The committee will have ample opportunity to study the institutions similar to this now in operation. There need be no experimenting at this late day; courses are already well established. The elective principle would

have to be adopted, for which there are already many precedents. A detailed description of building, class-rooms, laboratories, etc., should be made when courses are marked out, and this should be done only after a very careful examination of other similar buildings. It would not be safe to intrust such a responsibility to an architect who had not inspected similar institutions, or who had simply tried to solve the problem how best to contrive a structure to fit into a certain lot, or to join on to a given building, or to furnish a given number of rooms for a stated appropriation. The building should be planned, constructed, and furnished to meet the educational requirements of the school. This is presumably the design of every schoolhouse plan; but, unfortunately, many buildings are erected without much study of the educational needs or without consultation with those who are to use them. It is confidently hoped that the City Government will approve the plans recommended by the School Board, and provide a building that will satisfy the needs of the city in this special department of education.

CARE OF THE BUILDINGS.

The new city ordinances provide that the appointment of janitors, their salaries, and their responsibility shall rest with the committee on public property of the City Government. This is an experiment which we hope will work to the advantage of the schools. So far as their obligations extended, the janitors have been efficient and painstaking employees of the city. Their meagre salaries have not allowed the janitors of small buildings to give much of their time to the service, and those of the large buildings have not been able to hire help to do the work as thoroughly as is necessary. Our school buildings, as a rule, have not been kept as clean as is desirable. Sweeping at intervals of three or four days is not enough during most of the months of school. Consequently, teachers have often been obliged to sweep their own rooms or have it done by the boys. It is easier and better to keep mud out than to sweep it out. Acting upon this principle, mats have been provided in abundance, and teachers have tried to train children to come in with clean shoes. Everything is done to lighten the work of the janitor, but, nevertheless, constant cleaning is necessary. Every room should be examined daily by the janitor, and swept in parts, or throughout if

necessary. Desks and furniture should also be dusted daily, not by the teacher or by chosen pupils, but by the janitor. The suggestion that there should be a woman to clean each school every day is a good one. By such an arrangement the janitor would be free to attend to the heating, ventilating, cleansing of the basement, and general care of the premises. It is to be assumed that the janitors are still to remain directly responsible to the principals of the buildings. Windows should be cleaned once each month, and oftener if necessary. The cleanliness of the school-rooms enters so powerfully as a factor into the training of the children to habits of neatness and good breeding, it is such an excellent object lesson to those who are to grow up to be the care-takers of the homes, especially the house-keepers, and the lack of cleanliness so strongly counteracts the efforts of the teachers to secure cleanliness of person and clothing on the part of the children, and especially neutralizes all the influences to cultivate the moral and æsthetic tastes and faculties of the children, and is such a cause of discouragement to a refined woman who strives to furnish all the means and influences for refining the sensibilities, that it is confidently hoped that the City Government will provide the necessary help and the adequate compensation for bringing about this most desirable end. By so doing, the administration which has accomplished this change will merit and receive the lasting gratitude of a small army of earnest teachers and an appreciative community.

THE SCHOOLS.

The year just closing has seen great activity in school matters. Never in my experience here has there been greater demands upon the several committees and the superintendent. Forty-three changes of teachers have been made, either by resignation or transfer. These, with the opening of new schools, necessitated many new appointments. The organization of new school districts, the assignment and transfer of teachers and pupils, and the equipment of these schools with supplies has been a great tax upon the time of the committees. The size of the High School and the difficulties in its classification, the absence of the principal, the resignations and selection of new teachers, permanent and temporary, has demanded much time and attention. Considering all the conditions, we may say that commendable work has been done. No deviation has been

made from the course pursued during the previous year. No changes in the work or the instructors took place previous to the summer vacation. Progress along the whole line was made up to that time. Since September the absence of directors of drawing, and physical culture have made considerable difference in those departments, and we cannot say that, as a whole, progress has been made in these particulars. The falling off has necessarily been in the schools where new teachers are employed. Many of the schools have kept up the physical exercises with enthusiasm, but the drawing has suffered decidedly thus far. The delay in opening the Pope and Glines schools occasioned great inconvenience, and greatly hindered the progress of the work in those districts. None but those intimately connected with the work can realize how great a cost in the instruction and the administration of the schools such delays are. Surely the experience of this year, added to that of the Morse and Highland school improvements, should furnish valuable lessons for the future. In other respects the work has progressed steadily.

The contemplated changes in the course of studies for the primary and grammar grades retarded the issue of outlines and postponed the regular grade meetings, which should have taken place during the early months of the school year. But no delay in the regular work has been allowed. Change can now be made without disturbing progress, which is a desirable condition. The teachers will be supplied with the outlines of studies immediately after the vacation.

CHANGES IN THE COURSE OF STUDY.

A comparison of the new course with the last one printed in 1886 will show considerable change in detail; but in view of recent work done leading up to it, nothing radical has been attempted, and very little deviation will be made from what we are now doing. A course of study is necessarily a thing of life, so to speak. It grows year by year as the conditions of the schools change and the possibilities of progress demand. It will be found impossible to keep within strict bounds of the work laid down year by year, and it will be found necessary to act upon another course in the near future.

An attempt has been made to co-ordinate the several subjects of instruction, for it is only in this way that it is possible to include in the course all the material that ought to be used as means of instruc-

tion and training, and it is only by studying subjects in their relation that a child is able to make practical the fundamental truth of all knowledge. Between the actual fields of the several thought studies there lies a broad border territory, into which related knowledge stretches out, mingling and intermingling its elements into a perfect network. Not only is it impossible to draw absolute boundary lines, but such a process would fatally sever the vital connecting arteries that supply the life of the system. By recognizing this inter-relation, the studies may be so taught as to reinforce each other, and the facts acquired under one branch may harmonize and confirm what is learned in another. Thus many topics in elementary geography depend upon and grow out of the elements of botany, mineralogy, physics, and chemistry; the legitimate work in geography embraces these subjects. Mathematical and commercial geography cannot be separated from form, geometry and arithmetic; and drawing is a comprehensive band which binds all together. Political geography is current history, and is inevitably linked with history and political science. Arithmetic is closely allied to form and the various branches of science. Language, including reading and composition, must have for a basis the thought studies which embrace all the knowledge of which language and drawing are forms of expression.

There is a principle involved in making a course of study, one which underlies any scheme or system of education, which must not be overlooked in considering the work of the schools, but which is often overlooked when we are prescribing the subjects that embrace a course of study, and that is the development of power or the training of the faculties. The acquirement of knowledge is nothing if it has not developed the power and love of acquiring more, and making use of what is known. The completion of the studies of geography, history, arithmetic, etc., so far as learning is concerned, is vain if there has not been developed symmetrical and well-balanced mind. The details of a course of study are immaterial in comparison with the spirit of work, the love of research, power of application, the method of study, the proper use of books, and all the facilities for procuring knowledge.

How many men owe their success in life to the stock of knowledge they learned in school? No, it is not how much or what a child learns, but the discipline he underwent in learning. How many of us would be willing to go through life with only the knowledge we

learned at school? No, it is the power and desire for acquiring more. It is, then, not *what* we learn, but *how*.

I enter into no contest with those who wish to prescribe what should be taught, provided they do not limit me to narrow fields, but leave me free to teach according to right principles and methods.

We should, therefore, lock upon the subjects in the course of study as material which the teacher may use in training the minds of the children and helping them to become self-teachers. Right habits of observation, study, reading; simple practical methods of acquiring, or recording, or storing away knowledge; right thinking, accurate discernment of the truth, a discriminating judgment, good taste, ready expression, and use of knowledge are the things to be looked for in the way of results.

In issuing the course of study it is proposed to preface each subject with a few suggestions on the general principles, aims, or methods to be kept in view. These may be of interest in this connection.

NATURAL SCIENCE.

In my last annual report I discussed at length the object and necessity of this subject as a part of the elementary school curriculum. We have put into the hands of the teachers suggestive outlines for guidance in this work. Many of them have undertaken its introduction, using the limited time assigned to it in our time schedule. Some very excellent work is being done, especially in the primary grades. Teachers have reported to me that it is an inspiration to many children, and has awakened an interest that was hardly dreamed of. Other cities around us are making great progress in this department, some even having appointed specialists as supervisors. I announced the principles upon which this and other subjects claim admission to a course of study, one of which I will here repeat as a text for what I wish to use, from the pen of an eminent specialist, and which I will leave with you as the only contribution to the subject in this report.

“Among the studies that ought to be pursued in school are those which throw the greatest amount of *light* upon the *environments of life*, in order that the education of the school may be continued by these environments in after-life,” says Professor W. S. Jackman, of Cook County Normal School.

“Natural science, concerned largely with the earth and the tiny things it supports, affords the earliest school only dried means of introducing the child to his earthly habitation. The life, health, and happiness of the individual is dependent upon his knowledge of the things about him, and upon the understanding that he has of their relation to each other and to himself. This knowledge and apprehension of relations can only be acquired by actual personal contact and experience with the things and forces which make up and govern the universe.

“The final motive for the study of science is to bring the pupil by degrees to a strong personal realization that he is the focus of innumerable forces about him, which so bear upon him and so limit his life and comfort as to render the knowledge of how they may be resisted, guided, and controlled an absolute necessity. Life, ultimately his own life, is the great centre of all his interest in the world. And this motive will co-ordinate his interest in nature exactly with his interest in his own existence. This will give him life in the broadest and best sense, which is the ultimate aim of all education. Thus science instruction takes its place in the common schools with a motive at once pure and beneficial, and with an irresistible appeal to all to become life-long students. All phenomena of earth and air are pregnant with deepest interest when one finds himself threatened through his ignorance and his inability to interpret them.”

The vital importance to man of a thorough knowledge and understanding of the elements of science and the phenomena and forces of nature has been forcibly and beautifully pictured by Professor Huxley, thus: “Suppose it were perfectly certain that the life and fortune of every one of us would one day or other depend upon our winning or losing a game of chess. Don't you think that we should all consider it a primary duty to learn, at least, the names and moves of the pieces; to have a notion of a gambit, and a keen eye for all the means of giving and getting out of check? Do you not think that we should look with disapprobation, amounting to scorn, upon a father who allowed his son, or the state which allowed its members, to grow up without knowing a pawn from a knight? Yet it is a very plain and elementary truth that the life, fortune, and the happiness of every one of us do depend upon our knowing something of the rules of a game infinitely more difficult and complicated than chess. It is a game which has been played for untold ages, every man and

every woman of us being one of the two players in a game of his or her own. The chessboard is the world, the pieces are the phenomena of the universe, the rules of the game are what we call the laws of nature. The player on the other side is hidden from us. We know that his play is always fair, just, and patient. But, also, we know to our cost that he never overlooks a mistake or makes the smallest allowance for ignorance. To the man who plays well the highest stakes are paid, with that sort of overflowing generosity with which the strong shows delight in strength; and one who plays ill is checkmated, without haste, but without remorse. My metaphor will remind some of you of the famous picture in which Retzsch has depicted Satan playing chess with a man for his soul. Substitute for the mocking fiend in that picture a calm, strong angel, who is playing for love, as we say, and would rather lose than win, and I should accept it as an image of human life."

PHYSICAL TRAINING.

We are accustomed to consider the educational values of a system of teaching in the light of *knowledge* and power, — that is, the amount and character of the knowledge acquired, and the development of the faculties to be trained. Correspondingly, we may measure the value of physical training by the *growth* of *structure* and the development of *faculty*.

It seems that these two considerations are of value; but it should not be necessary for me to discuss the first, since development of strength and symmetrical growth may fairly be taken for granted. "Gymnastics become pedagogical when the movements become manifestations of the power of the mind to govern the body." The pupil must form a clear idea of what is to be done before doing it. A clear thought before action is the essence of training; this is pedagogical. It corresponds with every other work of the school that has educational value, whether of instruction or training. The exercise trains perceptive thought and expression. The movements that we see are the evidence of movements that we do not see. The inner results, the development of faculty in joints, muscles, nerve filaments, nerve centres, brain cells, and will power, are indicated by what we observe in the action and life of the children. I have witnessed the attention, the alertness, the watchfulness, thoughtfulness, promptness, energy,

vitality, exactness, and willingness of the pupil during the physical drill, and in other departments of the school work.

A test of the value of any feature of education is its influence upon the child in other lines of work and in conduct generally. Its effect is to be seen in the position, whether sitting, standing, or walking, and in the general pose and carriage of the body. A test of educational value is *interest*. I have noticed that the children are interested. Let me simply mention some of the features of the system that make it interesting: *First*, every movement has a *name*, and can be called for and recognized; the children know what each movement is designed to accomplish; they learn something of physiology in connection with it; they appreciate the value of the physical drill; the exercises call for constant attention; they are constantly varying, — never following in the same order; there is a continuous expectancy of something new. The movements, and especially the marching and forming, or, I might say, the crystallizing into various shapes during the drill, is pleasing; and if an inspection day comes, the day will make a good show. I can testify that the teachers are interested. I have seen this in the teachers' meetings week after week, where they take the lecture on the theory and philosophy of the system, and go through the drill which they are to use in the schools. They testify to the benefit it has been to them physically; they comprehend the reasons for every movement; they have a system that enables them to keep the class under complete control; they can by command bring about any movement or arrangement they wish; they can drill upon any exercise that will remedy any defect. For instance, certain bodily or physical defects are common to children, such as toeing in, or an awkwardness in standing. There are exercises that can be employed to correct these faults, which the teacher can use repeatedly. Individual cases can thus be reached. The teachers feel that they are getting results. They have a system that can be used in a class-room with any grade of pupils that does not require apparatus, and that does not need music.

PROMOTIONS.

Our present system of promoting from grade to grade gives good satisfaction. We are able to determine at any time how many are fitted for advancement to the next grade, and to promote deserving

pupils during the year. We are also able to report at any time how the individual pupils stand, and to explain what their merits and deficiencies are. The system has revealed the fact that there are each year in every school certain pupils who have not been able to complete the course, and are not qualified to attempt the work of the next grade. Our practice is to report such to the local committees, and the result is that, on account of age or other considerations, most of the doubtful ones are moved up "on trial," which means that they are to continue to struggle, or float along, as the case may be, dissatisfied with themselves and with education in general, a drag upon the classes, a burden and cause of anxiety to the teachers, and the occasion for the parents to find fault with the whole institution.

How are these cases to be explained, and what can be done for them? A careful investigation has revealed several causes, viz.: 1st, poor or irregular attendance resulting from (a) sickness, excusable; (b) lack of interest at home; (c) truancy. 2d, inability to do the work; (a) lack of effort; (b) deficiency of faculty; (c) partial lack of faculty. These subjects might be discussed at length, and might be subdivided, showing many more classes. There are reasons enough: it may be the result of poor teaching, lack of facilities, or want of system. The fact is that every school has some unfortunates who do not grade up to the standard. If the cause is in poor teaching, the remedy is very plain; improve it. If it is a defective system, change the system. If the pupils are deficient in faculty, if they are inattentive, lack interest, they should be reached in some other way. If they are truant, have some institution at hand to take them. This seems simple enough in theory, but we must do something more than theorize. The specific treatment of all these cases should be determined by individual examination by a commission of experts; and, manifestly, it would be inappropriate to enter into a discussion at length in such a report as this. There are some remedies that have been applied elsewhere, and which, I think, are perfectly feasible here. Every grammar school should have at least one ungraded class, composed of the pupils of several grades who have been left over, or for any other reason are deficient in their scholarship. Pupils might be assigned to this class on trial, and be reinstated whenever they show their worthiness. It would probably be a small class, as there would be a natural desire to get out of it, and a fear of getting into it, thus stimulating good attendance, good behavior,

and good effort. Such a class would need a strong teacher. No apprentice or substitute would do. There are now several districts where vacant rooms could be fitted up for this work, and I commend the subject to the local committees for their consideration.

There is, perhaps, another solution which might reach another class of backward pupils, and that is by broadening the course of study to meet the needs of individuals. This would necessitate a modification of the present programmes and method of classification. Many minds are working upon this problem. Many devices have already been put into operation, and some not without results. The most successful thus far is the provision for manual training, which has been proved efficient in awakening dormant powers. We have talked a long while on this subject, and have passed many resolutions, but very little has yet been done. Manual training has long since passed the experimental stage. Not only is it an integral factor in a complete system of schools, valuable for the average boy or girl, but it has stimulated the dullard and averaged up the backward ones.

There are many children to whom certain studies come exceedingly hard. This can be easily explained from the standpoint of psychology. The human mind has faculties varying greatly in individuals, the development of which gives us the linguist, the scientist, the mathematician, the musician, the philologist, the artist, etc.; or it may produce the various successful business capacities, the politicians, etc. Likewise the memory, which has been regarded as one faculty or power of the mind, is now recognized as being in different individuals memories. There is the memory for form, the memory for number, for color, for sounds, for words, for faces, etc. Now, all these facts must be taken into consideration and be provided for in our education.

If a child does not develop under our course of instruction, possibly it is because the right materials have not been found to call into activity the faculty or the elements of power lying dormant. The science of education has demonstrated that all minds may be trained, that children deprived of most of their senses may be developed through one or two remaining avenues to the mind. Surely pupils capable of attending the common schools can be reached in some way.

The ordinary school curriculum is based upon the study of arith-

metic. Schools are graded mainly upon that subject. If a child cannot do his arithmetic, he cannot be promoted. It is regarded as the most essential knowledge and the most valuable study for mental development. It is now denied by many educators that arithmetic deserves such consideration. Is it not possible that a person may successfully live in this world and know practically very little beyond the four fundamental rules? And is it not possible that some other subjects may be used as the means for the development of all the faculties of the mind, so that a man may have a liberal and symmetrical education and be no mathematician at all?

The same may be said of any other one of the principal studies of the elementary school, excepting reading. This is of practicable value, but this is an art, and not knowledge,—a means of getting knowledge. In brief, the avenues to practical knowledge are numerous, and the material for the development of the mind is inexhaustible, and not limited to any traditional studies. Commonly, it is possible, after the rudiments of knowledge have been acquired, for a specialist to attain a wonderful intellectual development, and become a well-educated man by pursuing a single department of knowledge.

Consequently, it is maintained that children who are not successful with the ordinary course of studies may be reached and advanced by means of other studies not commonly embraced in the curriculum. This is one argument in favor of manual training, and it is equally strong in favor of elementary science.

I believe that when we find that arithmetic, or geography, or grammar fails to fit a child for promotion, we err by continuing to use that study as a means of training; better to employ something else. This has been tried in individual cases; it would merit a wider application.

The elective principle, which is gaining such headway in educational thought and practice, is at the basis of this idea, and it cannot be gainsaid. This has a wider application than a scheme for reaching the backward pupil, that is, backward in the three R's. It also opens a possible way for the broader education of the ablest pupils, by introducing work enough to keep them employed, by affording them the opportunity of taking up studies for which their powers and advancing years make it necessary for them to pursue. Our work is laid out in amount to meet the requirements of the average pupil. Every class contains pupils who have to loaf a considerable portion of

the time. These scholarly children are capable of advancing faster, will probably pursue advanced courses of study, and should begin early to lay the foundation for it.

The introduction of science, algebra, geometry, and foreign languages into the grammar-school curriculum has been attempted in some cities, and our committee on course of study was requested to consider the subject. Such an addition is possible, and perhaps desirable, but it should be done on the elective principle. From a third to a half or more of our pupils are capable of doing the work in arithmetic, geography, history, and language in about half of the school year in any grammar grade. For these there should be the opportunity of electing algebra and geometry in lieu of certain work in arithmetic, other science for a part of the geography, readings in literature or general history for some now required. These electives should be open also to pupils who have no aptitude for certain of the regular old-time studies. There should be ample opportunity for laboratory work, for private reading and study, and greater facilities for individual work and instruction. We may not be able to afford all this, but private institutions do it, and the public will before long demand it.

The question is asked, Can anything be done in this direction? Yes, by fitting up a room in each building for this special work, by employing one extra teacher to look after electives and superintending individual work. Many of the regular teachers could, without assistance, make a beginning. It need not cost much to start something in an experimental way. Is not this worthy of special consideration?

HIGH SCHOOL.

The need of an English High School is discussed in another part of this report, but justice to our present excellent school deserves something more than a passing notice. The report of last year set forth truly and faithfully the great work that is being done there. No similar school in the State stands higher in the estimation of the institutions which receive our students. No preparatory course excels for completeness, and no instructors anywhere surpass ours in reputation for thoroughness and scholarship. Considering the disadvantages in the way of accommodations and appliances, it is wonderful that so much has been accomplished. No corps of

teachers in the State has had to work at such disadvantage. This overwork has told most seriously upon Mr. Baxter, the honored and beloved principal, who, always taking upon himself more than his share of the burdens, has labored all the sessions and many extra hours overtime to save others, to put up with inconveniences, to economize in books and supplies, and to accommodate all comers. His patience and long suffering can never be repaid by the school committee or the people of Somerville, and, I fear, will never be appreciated. None but constant visitors at the school can realize the amount of detail and the interminable perplexities with which the office of principal is burdened, and never have I seen him impatient, discouraged, or disconcerted. At last, without warning, he was obliged to give up, for a time at least, and seek much-needed rest. In his absence the responsibility has fallen upon the other principal teachers, Miss Fox taking his place in the most important work of his department. Substitutes have been appointed, and it is hoped no detriment will be experienced. The services of the head teachers, especially Miss Fox, cannot be over-estimated at this time, and I am happy to testify to their efficiency and their admirable spirit. It is now fully realized that the time has come to begin the organization of a new English High School. Until then very little change can be made in the methods of instruction or in the course of study, which should be done each year to meet the requirements of higher institutions and the conditions of active life. Nothing can be introduced successfully for want of room. Two years ago free-hand drawing was introduced, but under such unfavorable circumstances that the results were very meagre, and has now been discontinued for want of a teacher and a suitable room. Mechanical drawing was also begun, but has not advanced beyond the drawing of geometric problems, for want of room. Physical culture was begun, and good results were coming; but this year nothing has been attempted outside the class-room of elocution, because the large rooms are so crowded. Military drill was started, but had to be abandoned because there was no place that could be fitted up as an armory and no convenient place to drill, and because there was no money to expend for guns. All of these exercises conflicted more or less with the existing classes. There was no time as well as no room.

There are changes that ought to be made in the High School curriculum and in the methods of study and text-books in use.

These can all best be made when a new organization is effected. In the mean time the present course is being carried out with commendable spirit, method, and result.

GRADUATION.

The graduating exercises of the High School took place in the First M. E. Church, as usual, on Tuesday, June 30th, and were very creditable to the school and to those who took part. Mayor Pope awarded the diplomas to sixty-eight graduates, this being the largest class on record.

The following is the programme :—

THIRTY-NINTH ANNUAL EXHIBITION OF THE SOMERVILLE
HIGH SCHOOL, TUESDAY, JUNE 30, 1891, AT 9 A. M.

ORDER OF EXERCISES.

- | | |
|--|--------------------------|
| PRAYER. | REV. CHARLES A. SKINNER. |
| SINGING.*—Ave Verum. | <i>Gounod.</i> |
| 1. SALUTATORY IN LATIN. | JOHN P. SYLVESTER. |
| 2. ESSAY. <i>Man the Architect of His Own Fortune.</i> | ELLA L. DANIELS. |
| 3. READING. THE SECOND TRIAL. | <i>S. W. Kellogg.</i> |
| LYDIA SPENCER. | |
| SINGING.—DUET AND CHORUS: "Lobegesang." | <i>Mendelssohn.</i> |
| 4. DECLAMATION. THE TRUE USE OF WEALTH. | <i>Ruskin.</i> |
| ARTHUR E. HAM. | |
| 5. Das Hufeisen. | |
| FLORENCE I. BORNES, | FRANCIS D. CARR, |
| JULIA A. COONEY, | HENRY F. SANDER. |
| MAUDE T. COWDIN, | |
| SINGING.—SONG OF THE VIKINGS. | <i>Fanning.</i> |
| (Scored for orchestra by S. Henry Hadley.) | |
| 6. ESSAY. "Is mirth so tremendous a Crime?" | J. EDWIN LACOUNT. |
| 7. READING. THE SLAVE'S LULLABY. | <i>Edwards.</i> |
| LAURA L. LEIGHTON. | |

* Singing accompanied by Hadley's Orchestra.

VIOLIN SOLO. — ROMANZE.

Svendsen.

HUGH LEICHTENTRITT.

3. SCENE FROM SHAKESPEARE. (Original version in Greek.)
 SAMUEL C. EARLE, LIZZIE E. DOE,
 IRVING J. ENSLIN, LUELLE M. EATON,
 PETER S. MCADAMS, ELIZABETH GOLDSMITH.
 WILLIAM R. WHITEHORNE,

RECESS.

MUSIC. — WALTZES (For orchestra.): Das erste
Waldveilchen.*H. K. Hadley.*

SINGING. — BALLAD FOR SOLO, CHORUS, AND ORCHESTRA:

The Fairies.

H. K. Hadley.

9. Les chapeaux.
 MAUD P. BRACKETT, HERBERT E. BUFFUM,
 MIRIAM A. CAVANAGH, FREDERICK W. COOK,
 FLORENCE N. DAY, FRANK B. HARMON,
 FRANCES O. GILSON, FREDERIC S. HAYNES,
 MABELLE W. HOUGHTON, FRED HALEY,
 LILIAN T. KING, JOHN B. MERRIFIELD,
 ELIZABETH T. MAGUIRE, ARTHUR N. PARK.
 F. MABEL NORCROSS,
10. READING. MASSACRE OF ZOROASTER. *F. Marion Crawford.*
 LIZZIE M. CARVILL.
11. POEM. *Pandora.* JOSEPHINE C. BRAY.
 SINGING. — WALTZ IDYL: The Magic of Spring. *Weinzierl.*
12. READING. HOW PEGGY HELD THE FORT. *Bradley.*
 CORA C. HOWES.
13. PROPHECIES. NORMAN W. BINGHAM, JR.
14. VALEDICTORY. MARGARET F. BERTON.
15. PRESENTATION OF DIPLOMAS. BY HIS HONOR MAYOR POPE.
16. PARTING HYMN. Written by MIRIAM L. WOODBERRY.

MEMBERS OF THE GRADUATING CLASS.

Florence Irene Borns.	Fred Haley.
Maud Parsons Brackett.	Arthur Elias Ham.
May Gertrude Canfield.	Frank Badger Harmon.
Miriam Agnes Cavanagh.	Harry Merritt Haven.
Maud Rose Connolly.	Frederic Sherman Haynes.
Julia Agnes Cooney.	James William Hyson.

Ella Louise Daniels.
 Florence Nathalie Day.
 Annie Catherine Garde.
 Frances Olive Gilson.
 *Leona May Goodspeed.
 Jessie Annie Handley.
 Grace Anna Hitchcock.
 Mabelle Waugh Houghton.
 *Cora Cotelle Howes.
 Gertrude Greenwood Kendall.
 Lilian Tibbetts King.
 Laura Louise Leighton.
 Elizabeth Theresa Maguire.
 Mabel Elizabeth Mansir.
 Grace Tilden Merritt.
 Mirion Helen Milner.
 *Annie Franklin Mullin.
 Florence Mabel Norcross.
 Josephine Smith.
 Lydia Spencer.
 Helen Bland Thomas.
 Miriam Louise Woodberry.

Warren Harrison Beckley.
 Herbert Edwin Buffum.
 Francis Daniel Carr.
 Joseph Arthur Connelly.
 Frederick White Cook.
 James Avery Daniels.
 Wilfred James Doyle.
 Frank Leonard Eastman.

Arthur Nelson Park.
 Frederick Leonard Richards.
 Henry Franklin Sander.
 John Cary Spring.
 George Robbins Winslow

Course Preparatory to College.

Norman Williams Bingham, Jr.
 Joseph Arthur Clark.
 Jerome Ford Dewing.
 Samuel Chandler Earle.
 Irving Judson Enslin.
 Timothy Francis Goulding.
 John Edwin Lacount.
 Hugh Leichtentritt.
 Peter Stephens McAdams.
 Felix Francis McGirr.
 John Blaisdell Merrifield.
 Franklin Osborne Poole.
 Ira Andrew Smith.
 John Percival Sylvester.
 William Risby Whitehorne.
 Frank Henry Wilkins.
 Margaret Frances Berton.
 Josephine Compton Bray.
 Lizzie Maud Carvill.
 Maude Tannatt Cowdin.
 Lizzie Edith Doe.
 Luella Miranda Eaton.
 Elizabeth Goldsmith.
 Bozenka Annie Haderbölets.

* Diploma not received on account of the omission of a part of the Course of Study

GRADUATION.

The graduation of the grammar classes took place in the First M. E. Church on Thursday evening, July 2d, in the presence of a large audience. Addresses were made by Rev. Charles G. Ames, of Boston, and Mrs. Alice Freeman Palmer, of Cambridge, a member of the State Board of Education. The addresses were inspiring to the pupils and to their friends, and marked a fitting close to an important course of study. Mayor Pope conferred the diplomas,

accompanying this duty with appropriate and valuable advice. The programme was as follows:—

PROGRAMME.

PART I.

1. GRAND OPERA SELECTION. "Bohemian Girl." *Balfe.*
ORCHESTRA.
2. PRAYER. REV. W. H. PIERSON.
3. * SINGING.— ANTHEM (EVEN-SONG). "The Radiant Morn
Hath Passed Away." *Woodward.*
(Arranged for orchestra by S. Henry Hadley.)
COMBINED GRADUATING CLASSES.
4. ADDRESS. REV. CHARLES G. AMES, D. D.

PART II.

5. * SINGING. *a.* SEMI-CHORUS. "Stars Look O'er the Sea." *Smart.*
b. CHORUS. "May-Day Sports." *Gounod.*
6. ADDRESS. MRS. ALICE FREEMAN PALMER.
7. * SINGING.— TWO-PART SONG. "Music on the Waves." *Glover*
(Girls' Voices.)
8. ADDRESS TO THE GRADUATES AND CONFERRING
OF DIPLOMAS. MAYOR CHARLES G. POPE.
9. * SINGING.— "SOLDIERS' CHORUS" from "Faust." *Gounod.*

* Singing accompanied by Hadley's orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

GRADUATES.

PRESCOTT SCHOOL.

Adah G. Aldrich.
Bessie Baker.
Ida M. Coldrick.
Ada A. Cole.
Sarah M. Cram.

Joseph J. McAdams.
Angela M. Medros.
Mabel C. Mortimer.
Effie C. Norris.
Imelda K. Peate.

Lena N. Crane.	Alice G. Peck.
Ruby C. Cutter.	Louisa J. Price.
Mabel Dakin.	Edith N. Putney.
Bessie D. Davis.	Arthur S. Rice.
Evelyn A. Davis.	Emma M. Rich.
William T. Dole.	Frank L. Rumney.
George H. Dustin.	Arthur B. Sanborn
Lucy B. Fitch.	Edith Staples.
John M. Fitzpatrick.	Mabel Stockbridge
Ethel C. French.	George E. Turner.
Fred E. Giles.	Edwin L. Waite.
Mabel M. Ham.	Gertrude M. Watkeys.
Louise R. Hemenway.	Etta E. Webber.
Walter C. Henderson.	Eva F. Wessells.
Herbert P. Hill.	Alice F. West.
Sadie C. Johnson.	Nellie F. Wood.
Carolyn F. Lapham.	Alice V. Woodcock

EDGERLY SCHOOL.

Alfred L. Barrett.	Wallace A. Leonard.
Dora P. Bearse.	Ida L. Lincoln.
Harold L. Chandler.	Carrie E. Mills.
Florence E. Cate.	Walter A. Rice.
Ella E. Collins.	Harry O. Ray.
Etta M. Cromwell.	Edward G. Russell.
Edwin S. Dillon.	Frederick C. Ross.
Herbert E. Enslin.	Ethel I. Wentworth
Evelyn H. Furbush.	Cora E. Winterton.
Ida C. Freeman.	Herbert A. White.
Maggie M. Fraser.	L. Arthur Woodward.
Thomas H. Gill.	Charles I. Teague.
Joseph F. Golden.	Percy E. Thayer.
Carlotta A. Gilchrest.	Emma L. Tompkins
Myrtie L. Goodspeed.	Walter I. Smith.
Binney L. Harding.	Ida M. Sylvester.
Frank F. Hultman.	Emma P. Sands.
May G. Hatchell.	H. Agnes Sewall.
J. Elmer Kauler.	Abbie D. Southworth.
George E. Lowell.	

LUTHER V. BELL SCHOOL.

James Adams.	John Hart.
Grace M. Bardwell.	Orvis L. Hill.
Wilbur E. Barnes.	Daniel F. Keane.
Dorothea M. Benson.	Idella L. Kibbe.

Frank S. Boyd.	Josephine M. Kimball.
Fred Ellsworth Brown.	John H. Long.
Elizabeth C. Brown.	Regina B. R. Leichtentritt.
Nellie A. Brown.	Emma May Lyman.
Lorenzo W. Burlen.	Arthur N. Maddison.
Maud E. Burroughs.	Louis N. Mathews.
Mamie R. Caldwell.	William May.
Clara L. Came.	John B. McAvoy.
James J. Carr.	Charles F. McCaffrey.
Susie M. Caswell.	Annie A. MacDonald.
Alfred M. Cutler.	Mary M. McGann.
Louise M. Cuddy.	George B. McLaughlin.
Edward C. Daley.	Earnest B. McLean.
J. Louise Deacon.	Amy E. Meserve.
Margaret S. R. Douglas.	Edna M. Milner.
William C. Drouet.	Harry J. North.
Carrie J. Durant.	Rose L. O'Neil.
Herbert F. Dwyer.	Isabel G. Rinn.
John J. Earl, Jr.	James Robb.
Charles E. Eveleth.	Edward F. Saunders.
Alice M. Eugley.	Charles A. Saunders.
William H. Flaherty.	Chester W. Sellon.
Catherine A. Fitzgibbon.	Grace F. Simons.
Harvey Frost.	Ambrose F. Smith.
Maud E. Gibbs.	Charles E. Smith.
Willie T. Gill.	Louise M. Sturtevant.
Camilla E. Gilpatrick.	Frederick L. Wilkins.
Valentine Earl Gilson.	Joseph E. Wiley.
Nellie M. Gray.	Katie E. Williston.
George H. Grout.	Cora L. Wood.
Clarence P. Johnson.	Edwin S. Worden.
Katie May Jones.	Edward J. Young
Mary C. Haderbölets.	

FORSTER SCHOOL.

Arthur W. Collins.	Helen H. Davis.
Louis G. Columbus.	Mary L. Desmond.
Frank W. Currier.	Florence S. Hartshorn.
Burley D. Gould.	Florence M. Hunt.
Lemuel G. Hodgkins.	Mary B. Ingham.
Carroll Q. Jones.	Blanche E. Kendall.
Arthur I. Kendall.	Mary A. Lamont.
Harold H. Martin.	Lena M. McDonald.
John J. McCormack.	Alice S. Mayhew.
James J. Murphy.	Lillian G. Miles.
Edward W. Perkins.	A. Florence Nichols.

Harry O. Pratt.
 Joseph A. Rearson.
 James Robinson.
 William B. Smith.
 Harry E. Stewart.
 Robert C. Woodberry.
 Emma L. Bacon.
 Winnifred P. Briggs.
 Honora M. Cotter.
 Hattie R. Currier.

Martha B. Perkins.
 N. Gertrude Record.
 Blanche M. Souther.
 Mabel L. Stone.
 Mabelle W. Thomas.
 Ara L. Tinkham.
 Nettie L. Whipple.
 Lena T. Whittemore.
 Mary C. Wyman.

MORSE SCHOOL.

Chester K. Appley.
 George Francis Ashley.
 Oliver F. Brastow.
 Harry W. Brown.
 Edward Francis Collins.
 Robert B. Collupy.
 Herbert Edwin Cook.
 Henry B. Day.
 Albert A. Densmore.
 Clarence Edward Dow.
 Charles L. Downes.
 Clarence O. Fernald.
 Edmund A. Healey.
 Michael Francis Kelly.
 Joseph M. P. Kingman.
 William T. Knowlton.
 Charles Adams Landers.
 Elmer R. Libby.
 Thomas E. Marchant.
 J. Joseph McNamara.
 William J. Purcell.
 William Worcester Ramsay.
 Charles D. Richards.
 George H. Riker.
 Martin James Ryan.
 D. Werter Skinner.
 Horace W. Soule.
 Arthur Stern.

George N. Stoppell.
 Harry Augustus Worthen.
 Alice Amelia Beckwith.
 Laura May Bezanson.
 Alice G. Birmingham.
 Emily Josephine Burdakin.
 Florence S. Conant.
 Alice Celeste Daniels.
 Mabel E. Dodge.
 Nettie A. Dodge.
 Ethel S. Fleming.
 Florence Cecelia Foster.
 Mabel Frances Gilmore.
 Mabelle Adelia Gilson.
 Bessie Parker Jackman.
 Timima Logan.
 Nellie Theresa Murphy.
 Alice Louise Noble.
 Alice Eames Palmer.
 Mabel Maud Parker.
 Annie L. Pauly.
 Louie Gertrude Pitman.
 Margaret A. Purcell.
 Ella Maud Smith.
 Lulu M. Smith.
 Anna J. Stoppell.
 Mabel Webber.

HIGHLAND SCHOOL.

May F. Aldrich.
 M. Clinton Bacon.
 Grace V. Benson.

Frederick M. Hollis.
 Gertrude M. Holt.
 Ella M. Hoyt.

Bella Belyea.	Charles E. Keniston.
Maud B. Belyea.	Frank I. Libbey.
Emily J. Bray.	Ida B. Litchfield.
Estelle M. Byrnes.	Gertrude S. Lovejoy.
Leon A. Cameron.	James F. Mahoney.
Maud F. M. Clark.	Grace A. Mason.
Francis A. Countway.	Lottie R. McKean.
Charles F. Crocker.	Alice M. Quirin.
Francis M. Dion.	Philinda P. Rand.
Mary A. Dodge.	Guy F. Raynes.
Charles R. Duhig.	Lizzie A. Richardson.
Georgina W. Durno.	Lillian M. Sargent.
Nellie E. Eames.	William L. Shedd.
Julia Gaskill.	Elizabeth C. Sweeney.
Alice L. Goldthwaite.	Frances M. Townsend.
Lillian A. Grant.	Nellie J. Wallace.
Eliza G. Gray.	Fannie H. Watkins.
Jeanette Gunsenhiser.	Catherine D. Wood.
Mary A. Haskell.	Martin Wax.

TEACHERS.

There have been thirteen resignations during the year. Three have been granted leave of absence for the year, and three others leave of absence during several months. There have been twenty-four transfers of teachers to other schools, and we have elected thirteen new teachers, including one male and one female principal, and appointed four on trial. The list of changes will be found in the record of proceedings, and have been so numerous that comment upon the several vacancies would be impossible.

It would, however, be impossible to overlook the services of Miss Elizabeth A. Herrick, who came here in November, 1888, to introduce and build up a system of instruction in drawing, the foundation of which she laid more firmly than any of us yet realize; and Miss C. Isabelle Livingstone, our director of physical education, who inaugurated a work in our schools which has already won us fame. These two departments have accomplished much for our schools, and the loss of the builders has not yet been made good. Miss Herrick resigned to accept a position on the faculty of the College for the Training of Teachers in New York, as head of the department of art education, where we hope she will attain a success far

in excess of her expectations. Miss Livingstone has taken a responsible position in an institution in Northampton. Her success is beyond question. She is a born teacher, and enthusiastic and proficient in her chosen specialty.

The establishment of the new Charles G. Pope Grammar School brought to us Mr. George M. Wadsworth, a graduate of Brown University, and a teacher of successful experience in Adams and Quincy at the head of grammar schools, and in the Bedford district as superintendent of schools.

CONCLUSION.

In conclusion, allow me to acknowledge the kind consideration of the board and the cordial support rendered during the year. I wish to commend the faithfulness and co-operation of the teachers, and express my confidence in their ability and integrity of purpose and character. We are all indebted to an intelligent and appreciative community for support and interested sympathy.

Respectfully submitted,

C. E. MELENEY,

Superintendent.

REPORT
OF THE
COMMITTEE ON DRAWING.

Prang's Educational Course in drawing, now in use in our public schools, since it is designed to underlie the whole course of study and to permeate every department of instruction, is one of the most important branches taught. The term "drawing" but inadequately expresses its office, since it deals not only with pictorial representation, but, what is far more important, gives to the child an education in art, cultivating the æsthetic side of his nature at the same time that it trains the mind and the hand.

With the exception of the sewing for the girls and the privilege granted a few of attending classes in Sloyd and cooking in Boston, it is the only form of manual training furnished our pupils; and its importance in this direction has been recognized in the fact that, by the new Rules and Regulations to go into effect at the beginning of the year, the whole subject is relegated to the committee on industrial education, to whom mechanical drawing was previously assigned. While this feature is made prominent, its other important functions should not be overlooked. In its thorough and systematic study of form and color, in its use of models and natural objects, and in its artistic treatment of "design," the powers of observation, reason, and judgment are brought into use; and the æsthetic faculties are given a development not furnished in any other way. That it is an artistic as well as a manual training should be duly recognized, and the former, rather than the latter, office should be constantly before the minds of all instructors.

So important and far-reaching a subject makes the need of a special instructor apparent. Miss Lizzie A. Herrick, during her term of service as special teacher, received the willing and able

coöperation of all the teachers, and most satisfactory results in drawing were attained in all the schools. The excellence of the work was recognized by all who attended the manual training exhibition held in Boston in April, where the Somerville exhibit compared most favorably with that of other cities, and received high commendation for its "honesty, simplicity, and faithfulness." In June Miss Herrick resigned to accept a position at an increased salary in the New York College for Training Teachers. Since then the schools have been without a special teacher, and the experience of these few months has plainly shown that a supervisor is a necessity in order to keep the work up to the standard it had already attained. This need is felt most among the new teachers, but in all grades, and especially in those above the fourth, where new work is now being taken up, supervision and instruction are necessary for the best results.

The teachers of the eighth and ninth grades were called together in November, and the work for the year outlined to them by an instructor from the Prang Educational Company. Prang's drawing books numbers seven and eight, to be supplemented in the usual way, were assigned to grades eight and nine, respectively. Mechanical drawing was given to girls in these grades for the first time, and is likely to be as popular among them as it has been among the boys.

Feeling the financial stress that has been upon the School Board this year, the drawing committee could not recommend a teacher at the salary formerly paid, and they have felt equally unwilling to present any candidate except one of marked ability and undoubted fitness for the position. At a salary of \$700 a year for three days in the week, it is now possible to secure a most able supervisor, who would visit each school, except the High School, once a month, and give the teachers instruction at special meetings outside of school hours as often as may be found necessary. A more economical plan could scarcely be presented, and the committee believe the results will be satisfactory.

The drawing committee of last year called attention to the need of models, and this want has been met, partly, at least, by sets containing the simpler forms, such as the cube, sphere, cylinder, and cone, of a size suitable for the individual use of the pupils. A set of larger models, like Prang's set No. 4, for the teacher's desk would be a valuable addition, and only one set for each grammar school would be required.

PENMANSHIP.

The work in this branch the past year has been satisfactory. The faithful efforts of the teachers to secure and maintain the correct position of the pen in writing have been appreciated, and perseverance in this direction is commended and encouraged. While so many other departments call loudly for special teachers, it is not deemed advisable to recommend one for this, although greater interest and better results would doubtless follow from the employment of an enthusiastic and competent special teacher of this branch.

Respectfully submitted,

HELEN J. SANBORN.

JAMES F. BEARD.

QUINCY E. DICKERMAN.

THOMAS M. DURELL.

APPENDIX TO SUPERINTENDENT'S REPORT.

FINANCIAL STATEMENT.

The estimates for the year made by the committees of the School Board aggregated:—

For teachers' salaries	\$105,500
For school contingent	27,629

The appropriation made by the City Council was:—

For teachers' salaries	\$102,000
For school contingent	21,000

The expenditures were as follows:—

Teachers' salaries		\$110,615 92
Salary of superintendent	\$2,500 00	
Salaries of truant officers	950 00	
Salaries of janitors	8,543 61	
Water and light	1,035 81	
Text-books	6,583 92	
Writing-books	652 88	
Drawing-books and material	1,512 31	
Stationery and supplies	4,026 70	
Printing	384 31	
Miscellaneous	740 66	
	<hr/>	
Total school contingent		26,930 20
		<hr/>
Total		\$137,546 12
Received for tuition of non-resident pupils		65 50

TABLE SHOWING THE NUMBER OF SCHOOLS, TEACHERS, AND PUPILS, THE NUMBER IN THE NINTH CLASS, AND THE AVERAGE NUMBER TO A SCHOOL IN THE SEVERAL DISTRICTS IN DECEMBER.

DISTRICTS.	No. of Schools.	No. of Teachers.			No. of Pupils.	No. in Ninth Class.	Average No. to a School.
		1	2	3			
East Somerville	26	2	26	7	1,319	89	50.7
Prospect Hill	52	3	52	-	2,334	116	44.9
Winter Hill	24	1	24	2	1,093	81	45.5
Spring Hill	23	1	23	4	1,100	52	47.8
West Somerville	16	1	16	-	715	48	44.7
	141	8	141	13	6,561	386	46.5

- 1. — Principals of large grammar schools.
- 2. — Regular teachers.
- 3. — Assistants.

TABLE SHOWING THE NAME, LOCATION, DATE OF ERECTION, ESTIMATED VALUE, CAPACITY, ETC., OF THE SEVERAL SCHOOL BUILDINGS.

DISTRICTS.	SCHOOLS.	LOCATION.	When Built.	No. Feet in Lot.	Estimated Value.	No. of Rooms.	No. of Classes.	No. of Grammar Classes.	No. of Primary Classes.
East Somerville	High	Highland Avenue	1871	-	\$44,000	10	4	-	-
"	Prescott	Myrtle Street	1867	21,444	42,000	12	12	8	4
"	Edgerly	Cross Street	1871	26,428	43,100	10	10	6	4
Prospect Hill	Davis	Tufts Street	1884	29,384	18,333	4	4	1	3
"	L. V. Bell	Vinal Avenue	1874	22,202	43,000	13	13	9	4
"	Cummings	School Street	1884	11,300	15,357	4	4	1	3
"	Brastow	Medford Street	1861	10,019	6,250	2	-	-	-
"	Charles G. Pope	Washington Street	1891	27,266	64,891	12	12	8	4
"	Prospect Hill	Washington Street	1848	25,313	20,600	6	4	4	-
"	Bennett	Joy Street	1868	20,560	8,300	4	4	-	4
"	Jackson	Poplar Street	1861	11,212	8,300	4	4	-	4
"	O. S. Knapp	Concord Square	1889	24,517	32,974	8	8	4	4
"	Webster	Webster Avenue	1868	11,050	8,300	4	4	1	3
"	Union	Prospect Street	1842	9,360	2,600	1	-	-	-
Winter Hill	Forster	Sycamore Street	1866	32,693	39,422	12	12	9	3
"	J. T. Glines	Jaques Street	1891	28,800	47,207	8	6	3	3
"	Bingham	Lowell Street	1886	20,896	15,105	4	4	1	3
"	Cedar-street	Cedar Street	1843	-	800	2	2	-	2
Spring Hill	Morse	Summer Street	1869	29,109	58,031	12	12	9	3
"	Beech-street	Beech Street	1872	6,000	4,750	2	2	-	2
"	Spring Hill	Beech Street	1850	4,991	1,700	1	-	-	-
"	Franklin	Somerville Avenue	1846	33,017	14,300	4	4	2	2
"	Harvard	Beacon Street	1851	9,810	2,600	1	1	-	1
"	*Burns	Cherry Street	1886	16,080	15,250	4	4	2	2
West Somerville	Highland	Highland Avenue	1880	23,260	53,306	12	12	8	4
"	Lincoln	Broadway, Clarendon Hill	1885	17,662	15,487	4	4	2	2
						160	146	78	64

* Receives pupils from both the Spring Hill and the West Somerville Districts.

TEACHERS.

	MALE.	FEMALE.	TOTAL.
Number of teachers in High School	3	9	12
Number of teachers in grammar grades (including one assistant)	1	78	79
Number of teachers in primary grades (including twelve assistants)	-	75	75
Number of principals of large grammar schools	7	1	8
Teacher of music	1	-	1
Teachers of sewing	-	2	2
Teacher of drawing	-	1	1
TOTAL	12	166	178

SCHOOLS AND TEACHERS.

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Salaries.	When Elected.
High	George L. Baxter	Harvard College	\$2,400	1867
"	Frank M. Hawes	Tufts College	1,800	1879
"	Charles T. Murray	Dartmouth College	1,400	1887
"	Sarah W. Fox	High School, Taunton. Instruction in classics and German abroad	1,200	1868
"	Sarah F. Litchfield	Lawrence Academy, Gro- ton. Private instruc- tion in Latin, French, and German	850	1880
"	Fannie W. Kaan	Somerville High School and Salem Normal School	850	1882
"	Eudora Morey	Malden High and Bridge- water Normal School	850	1882
"	Bessie R. White	Colby University	800	1877
"	Josephine H. Short	Boston University	775	1887
"	Annie E. French . . . . .	. . . . .	800	1891
"	Bertha L. Brown	Colby University	775	1892
"	Mary M. Kingsbury	Boston University	700	1892
Prescott	G. A. Southworth	Chicago, Ill., and Lowell (Mass.) High School	1,900	1873
"	Anna M. Bates	Salem High and Normal School	700	1874
"	Adelaide Reed	Bridgew'r Normal School	650	1877
"	Abbie A. Anderson	Stoughton High School and Canton Training School	600	1878
"	Emma M. Cate	High School, Winchester	600	1882

SCHOOLS AND TEACHERS. — *Continued.*

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Sala- ries.	When Elected.
Prescott . . .	Amelia I. Sears . . .	Westfield Normal School	\$600	1873
" . . .	Catherine T. Brown . . .	Somerville High School . .	600	1868
" . . .	Emma F. Porter . . .	Boston Normal School . .	600	1890
" . . .	Clara Taylor . . .	Somerville High School . .	600	1871
" . . .	Sarah E. Pratt . . .	Bridgewater Nor'l School	600	1877
" . . .	Elgina M. Plummer . . .	High School, Boston . . .	600	1877
" . . .	Florence M. Morton . . .	Somerville High School . .	600	1882
" . . .	Ada Cowles . . .	Somerville High School . .	600	1875
" . . .	*Louise E. Pratt . . .	Somerville High School . .	500	1889
" . . .	*A. Maude Emerson . . .	Somerville High School . .	200	-
" . . .	*Frances M. Seymour . . .	Somerville High School . .	-	-
Edgerly . . .	Charles E. Brainard . . .	High School, Danielson- ville, Conn.	1,200	1889
" . . .	Addie L. Smith . . .	Malden High School . . .	675	1890
" . . .	Anne A. Lathrop . . .	Wellesley College and Harvard Annex	600	1890
" . . .	Annie L. Dimpsey . . .		600	1891
" . . .	Lilla J. Pike . . .	High School and Academy, Salmon Falls, N. H. . . .	600	1887
" . . .	Gertrude L. Gardner . . .	R. I. State Normal	600	1889
" . . .	Emma L. Zeigler . . .		600	1891
" . . .	Alice M. Dearing . . .	High School, Lisbon Falls, Me.	600	1890
" . . .	Lillian Nealley . . .	Salem Normal School . . .	690	1882
" . . .	Clara M. Bagley . . .	Somerville High School . .	600	1873
" . . .	Martha M. Power . . .	Somerville High School and Quincy Training Class	300	1891
" . . .	*Lizzie M. Hamilton . . .		200	-
" . . .	*Florence N. Day . . .		200	-
Davis . . .	Lucretia A. Burns . . .	Framingham Nor'l School	675	1882
" . . .	Gertrude A. Earle . . .	Bridgewater Normal Sch'l	600	1884
" . . .	Annie J. Richardson . . .	Winchester High School	600	1889
" . . .	Priscilla A. Merritt . . .	Salem Normal School . . .	600	1885
" . . .	*Nettie M. Orne . . .	Somerville High School . .	200	-
" . . .	*Carrie T. Lincoln . . .	Somerville High School . .	200	-
L. V. Bell . . .	Fred W. Shattuck . . .	Dartmouth College . . .	1,750	1890
" . . .	May E. Berry . . .	Somerville High School . .	675	1880
" . . .	Emma F. Schuh . . .	Somerville High School . .	600	1874
" . . .	Nellie S. Dickey . . .	Quincy Training School . .	600	1889
" . . .	Mary A. Bradford . . .	Mt. Holyoke Seminary . .	600	1888
" . . .	Anna L. Dickerman . . .	Bridgewater Normal Sch'l	600	1890
" . . .	Vyra L. Tozier . . .	Gorham (Me.) Nor'l Sch'l	600	-
" . . .	Gertrude E. Robbins . . .	Bridgewater Normal Sch'l	600	1888
" . . .	Mary S. Rinn . . .	Somerville High School . .	600	1889
" . . .	Anna L. Alger . . .	Framingham Nor'l School	400	1891
" . . .	Ines M. Dernier . . .	Salem Normal School . . .	500	-
" . . .	Martha E. Daniels . . .	Somerville High School . .	400	-

*Assistant.

SCHOOLS AND TEACHERS. — *Continued.*

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Salaries.	When Elected.
L. V. Bell . .	Eliza L. Schuh . . .	Somerville High School .	\$600	1882
" . .	Eula M. Byrns . . .	Somerville High School .	300	-
Cummings . .	Lydia J. Page . . .	Somerville High School .	675	1869
" . .	Addie M. Brown . . .	Somerville High School .	600	1886
" . .	Ida F. Fillebrown . . .	Somerville High School .	600	1888
" . .	Annie Coffin . . .	Somerville High School .	600	1884
Chas. G. Pope	George M. Wadsworth,	Brown University . . .	1,750	1891
" " . .	Florence A. Chaney . . .	. . . . .	-	1892
" " . .	Helen M. Freeman . .	Farmington Normal Sch'l	600	-
" " . .	Alice I. Norcross . . .	High School	600	1885
" " . .	Frances A. Wilder . . .	High Sch'l and Academy .	600	1874
" " . .	Lizzie W. Parkhurst .	Gloucester High and Training Schools . . .	600	1885
" " . .	Mary C. Jones . . .	Gorham (Me.) Nor'l Sch'l	600	1890
" " . .	Clara B. Sackett . . .	Westfield Normal School	600	1891
" " . .	Ellen P. Longfellow . .	Framingham Normal Sch'l	350	1891
" " . .	Maria Miller	Somerville High School .	600	1869
" " . .	Lillian C. Albee . . .	High School, No. Attle- boro'	600	1888
" " . .	Emily G. Arnold . . .	Bridgewater Nor'l School	600	1890
" " . .	Maizie E. Blaikie . . .	Somerville High School .	400	1891
Prospect Hill .	Helen Tincker . . .	Mt. Holyoke Seminary and Salem Normal School .	800	1872
" " . .	Florence O. Bean . . .	Framingham Nor'l School	600	1888
Bennett . .	Mary B. Smith . . .	Maine Wes. Seminary .	675	1885
" . .	Annie G. Sheridan . . .	Salem Normal School . .	600	1886
" . .	Isadore E. Taylor . . .	Somerville High School .	600	1883
" . .	Mabel E. Daniels . . .	Somerville High School .	300	-
Jackson . .	Annie E. McCarty . . .	Somerville High School .	675	1880
" . .	Fannie L. Gwynn . . .	Salem Normal School . .	600	1886
" . .	Annie E. Crimmings . .	Somerville High School .	600	1884
" . .	Lena B. Blaikie . . .	Bridgewater Nor'l School	300	-
O. S. Knapp .	Harry N. Andrews . . .	Bridgewater Normal Sch'l	1,200	1890
" . .	Abbie C. Hunt	Ipswich Female Seminary	675	1873
" . .	Emma Frye	R. I. Normal School . .	600	1891
" . .	Dorcas C. Higgins . . .	Quincy Training School .	600	1891
" . .	Carrie E. Cobb	Taunton High School . .	600	1887
" . .	Nellie A. Hamblin . . .	Bridgewater Nor'l School	600	1882
" . .	Annie E. Robinson . . .	Somerville High School .	600	1876
" . .	Abbie A. Gurney	Bridgewater Nor'l School	600	1888
" . .	Lena G. Allen	Somerville High School .	600	1884
" . .	Minnie A. Perry	Salem Normal School . .	400	1891
" . .	Lucia Alger	Bridgewater Nor'l School	600	1889
Webster . .	Clara B. Parkhurst . . .	Salem Normal School . .	675	1889
" . .	Nellie F. Sheridan . . .	Somerville High School .	400	1888
" . .	Annie L. Savage	Salem Normal School . .	600	1873

SCHOOLS AND TEACHERS. — *Continued.*

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Salaries.	When Elected.
Forster . .	John S. Hayes . . .	Phillips Exeter Academy,	\$1,800	1878
" . .	Mary E. Northup . .	High School, Centreville,	675	1878
" . .	Mary E. Stiles . . .	Farmington Nor'l School,	600	1883
" . .	Minna L. Wentworth .	High School, Salmon Falls, N. H.	600	1885
" . .	Blanche E. Heard . .	Waltham New Church School	600	1890
" . .	Lizzie A. Page . . .	N. H. State Normal Sch'l,	600	1890
" . .	Frances M. Guptill .	Eliot Academy	600	1869
" . .	Lizzie F. Clement . .	Tilton (N. H.) Seminary,	600	1884
" . .	Addie S. Winnek . .	Salem Normal School . .	600	1883
" . .	Alice A. Batchelor . .	Northboro' High School .	600	1877
" . .	Martha H. Pennock .	Somerville High School .	600	1873
" . .	Annie S. Gage . . .	Somerville High School .	600	1883
" . .	Harriet A. Brown . .	Westfield Normal School,	600	1890
J. T. Glines .	Mrs. Cora E. Dimpsey	Boston University . . .	800	1890
" . .	Nellie A. Boynton . .	. . . . .	600	1891
" . .	Annie J. Reed . . .	Boston Normal School . .	400	1891
" . .	Margaret A. Orr . . .	Bridgewater Normal Sch'l	400	1891
" . .	Florence E. Baxter .	Somerville High School .	300	1891
" . .	Emma Burckes . . .	Somerville High School .	350	1890
" . .	*Mary A. Joyce . . .	Albany (N. Y.) Normal School	200	-
" . .	*Grace M. White . . .	Somerville High School . .	200	-
Bingham . .	Hattie L. Devereux .	. . . . .	675	1891
" . .	Ruby A. Johnson . . .	Boston Normal School . .	-	-
" . .	Nora F. Byard . . .	Somerville High School . .	600	1884
" . .	Laura C. Duddy . . .	Salem Normal School . .	500	1889
Cedar-street .	Elizabeth G. Boardman	Salem Normal School . .	625	1891
" " . .	Alice M. Porter . . .	Salem Normal School . .	600	1880
Morse . . .	Mina J. Wendell . . .	High and Training Sch'ls, Woburn	1,600	1882
" . . .	Sarah S. Waterman . .	Bridgewater Nor'l School	675	1887
" . . .	Stella Hall	Salem Normal School . .	600	1884
" . . .	Pauline S. Downs . . .	Cooper Union, New York City	600	1872
" . . .	Ella F. Gould	Lowell High School . . .	600	1882
" . . .	Amy C. Hudson . . .	Somerville High School . .	600	1885
" . . .	Anna E. Sawyer . . .	Somerville High School . .	600	1873
" . . .	Emma L. Nason . . .	Bridgewater Normal Sch'l	600	-
" . . .	Ella G. Worden . . .	Somerville High School and Bristol Academy . .	600	1890
" . . .	Lizzie E. Hill	N. H. State Normal Sch'l	600	1891
" . . .	Mary E. Bosworth . .	N. H. State Normal Sch'l,	650	1882
" . . .	Ella P. McLeod . . .	Boston High School . . .	600	1888
" . . .	†Anna Pushee	Bridgewater Nor'l School	600	1888

* Assistant

† On leave of absence.

SCHOOLS AND TEACHERS. — *Concluded.*

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Sala- ries.	When Elected.
Morse . . .	Annabel M. Perry (sub- stitute) . . .	Somerville High School .	\$300	-
" . . .	*Grace B. Tibbitts . . .	Cambridge High School .	-	-
Beech-street .	Emma T. Tower . . .	Somerville High School .	600	1890
" . . .	Florence B. Ashley . . .	Somerville High School .	600	1887
Franklin . . .	Hattie A. Hills . . .	Somerville High School .	675	1874
" . . .	E. C. Summerhayes . . .	High School, Nantucket .	600	1876
" . . .	Anna C. Damon . . .	Worcester State Normal School	600	1879
" . . .	Caroline S. Plimpton . . .	Southbridge, Mass. . . .	600	1859
Harvard . . .	Mary E. Lacy . . .	Somerville High School .	300	-
" . . .	*Carrie E. Fowle . . .	Woburn Training School .	300	-
Burns . . .	Laura J. Brooks . . .	Providence	675	1883
" . . .	Minnie S. Turner . . .	Somerville High School .	600	1885
" . . .	Annie L. Brown . . .	Cambridge High School .	600	1885
" . . .	Florence M. Hamlin . . .	Somerville High School .	400	1889
" . . .	*Alice M. Lavers . . .	Somerville High School .	200	-
Highland . . .	George E. Nichols . . .	Dartmouth College . . .	1,800	1877
" . . .	M. Alice Paul . . .	Somerville High School .	675	1879
" . . .	Harriet B. Sargent . . .	Worcester Normal School .	600	1887
" . . .	M. A. Jepson . . .	Farmingham Normal Sch'l .	600	1891
" . . .	S. Adelaide Blood . . .	Salem Normal School . . .	600	1882
" . . .	Annie R. Cox . . .	State Nor'l School, N. H. .	600	1883
" . . .	Mary H. Knight . . .	Gorham Normal School . .	600	1891
" . . .	Jennie C. Frazier . . .	Boston Normal School . .	600	1887
" . . .	Sarah E. Pray . . .	Somerville High School . .	600	1878
" . . .	Hallie M. Hood . . .	Somerville High School . .	-	-
" . . .	Jennie M. Horner . . .	Somerville High School . .	500	1888
" . . .	Mary Winslow . . .	Boston High School . . .	500	1887
" . . .	Lucretia C. Sanborn . . .	N. H. Normal School and Kindergarten	600	1888
Lincoln . . .	H. F. Hathaway . . .	Bridgewater Nor'l School .	800	1890
" . . .	Carrie E. Fay . . .	. . . . .	600	1889
" . . .	Charlotte F. Mott . . .	Private School, Wadding- ton, N. Y.	600	1886
" . . .	Eliza H. Lunt . . .	Concord High School . . .	600	1890
Music . . .	S. Henry Hadley . . .	Somerville High School . .	1,333	1868
Drawing . . .	Augusta L. Balch . . .	Mass. Normal Art School .	700	1892
Sewing . . .	Mrs. C. M. Coffin . . .	Nantucket High School . .	500	1888
" . . .	Mary L. Boyd . . .	. . . . .	500	1888

* Assistant.

PUPILS.

Number of persons in the city on the first day of May last, between five and fifteen years of age 6,800
 Number between eight and fourteen years of age 4,249

	High School.	Grammar and Prim. Schools.	Total.
Whole number registered during the year	507	8,003	8,510
Average whole number	467	6,035	6,502
Average attendance	450	5,641	6,091
Per cent. of attendance	96.3	93.3	93.7
Number cases of tardiness	277	2,905	3,182
Number cases of dismissal	-	2,597	2,597
Number cases of punishment	-	658	658
Number pupils in attendance in January	465	6,047	6,512
Number pupils in attendance in December	524	6,561	7,085
Average number of pupils to a teacher	44	46.8	-
Number pupils over fifteen years of age	473	332	805
Number pupils between 8 and 14 years of age	-	4,480	-

TABLE OF PUPILS BY GRADES.

(Number registered in December.)

Grades.	Class.	No. of Teachers.	Boys.	Girls.	Total.	Average Age.		No. Promoted to Higher Grade in June.	No. Double Promotion.
						Yrs.	Mos.		
High . . .	Fourth year	12	20	62	82	-	-	-	-
	Third "		36	57	93	-	-	-	-
	Second "		48	93	141	-	-	-	-
	First "		78	130	208	-	-	-	-
			182	342	524				
Grammar	Ninth . . .	9	168	218	386	14	10½	298	-
	Eighth . . .	10	236	224	460	14	-	394	8
	Seventh . . .	11	273	243	516	13	2	459	14
	Sixth . . .	*16	384	306	690	12	3	486	36
	Fifth . . .	15	384	330	714	11	3	563	7
" . . .	Fourth . . .	18	414	363	777	10	3½	709	16
		79	1,859	1,684	3,543			2,909	81
Primary .	Third . . .	16	448	372	820	9	-	693	4
	Second . . .	34	504	434	938	7	9	761	7
	First . . .	25	706	554	1,260	6	5	795	6
		†75	1,658	1,360	3,018			2,249	17
Total		**166	3,699	3,386	7,085			5,158	98

* Including one assistant. † Including twelve assistants. ** Besides eight principals of buildings.

EXHIBIT OF THE PUBLIC SCHOOLS.

SCHOOLS.	Whole Number Registered During the Year.	Average Whole Number.	Average Attendance.	Per Cent. of Attendance.	Number Cases of Tardiness.	Number Cases of Dismissal.	Number Cases of Punishment.	Number Pupils in Attendance in January.	Number Pupils in Attendance in December.	Average Number of Pupils to a Teacher in December.	Number of Pupils Over 15 Years of Age.	Number of Pupils between 8 and 14 Years of Age.
High	507	467.	450.	96.3	277	-	-	465	524	44	473	-
Prescott	742	559.6	526.5	94.1	66	86	42	560	620	51.7	31	429
Edgerly	601	453.4	426.7	94.	75	120	15	473	422	48.2	44	312
Davis	285	200.6	187.5	93.7	39	45	31	193	217	54.2	1	113
Forster	864	739.	695.	94.	62	242	16	714	59.	46.	51	515
J. T. Glines	69	-	-	-	29	13	3	0	228	45.6	1	-
Bingham	326	210.	191.	91.	116	83	11	231	206	51.5	-	131
Cedar-street	44	42.	38.	90.	62	10	16	30	62	31.	-	7
L. V. Bell	745	644.	602.	93.	205	402	38	649	579	44.5	65	519
Cummings	253	197.	182.	92.	80	75	28	197	195	48.7	-	100
Charles G. Pope	31	-	-	-	59	36	-	-	548	45.7	2	15
Prospect Hill	411	285.	264.6	93.	85	40	15	308	*85	42.5	3	254
Brastow	114	84.	79.	94.	74	12	2	91	-	-	-	57
Bennett	295	198.	180.	90.9	235	81	90	200	169	42.2	-	146
Jackson	319	185.	167.	93.	141	60	56	206	181	45.2	-	104
O. S. Knapp	562	430.	409.	92.	300	227	35	404	445	44.5	30	302
Webster	179	113.	105.2	93.	339	139	66	113	132	44.	1	99
Morse	662	557.	523.	94.3	239	315	71	556	573	47.8	42	423
Beech-street	91	59.	53.	90.	87	13	8	51	78	39.	-	29
Franklin	230	167.	157.	94.4	60	42	25	164	179	44.7	1	181
Harvard	92	57.	54.	94.7	81	9	18	53	60	30.	-	2
Burns	231	186.	171.	92.1	173	86	15	193	210	52.5	-	146
Highland	645	506.	475.	93.8	231	414	47	482	546	45.5	58	451
Lincoln	212	162.	154.	95.	67	47	10	179	169	42.2	2	145
Total	8,510	6,502.	6,091.	93.7	3,182	2,597	658	6,512	7,085	†46.5	805	4,480

* Besides two classes accommodated in Prospect Hill, but belonging at the Knapp.

† Not including High School.

ADDITIONAL STATISTICS OF THE HIGH SCHOOL.

Whole number of different pupils during the year	706
Largest number at one time	535
Number admitted during the year	240
“ from our Grammar Schools	199
“ from other schools	41
“ graduated	68
“ of graduates who entered college	17
“ of graduates who entered Institute of Technology and Scientific Schools	5
“ who have left during the year exclusive of graduates	114
Whole number at the present time, December, 1891	524
Average number to a teacher	44
Number over fifteen years of age	473
“ in course preparatory to college	175
“ pursuing the regular course	269
“ pursuing the English course	80
“ in the first class when it entered the school	175
“ in the first class at the present time	82
“ in the second class when it entered the school	187
“ in the second class at the present time	93
“ in the third class when it entered the school	196
“ in the third class at the present time	141
“ in the fourth class when it entered the school	218
“ in the fourth class at the present time	208

REPORT OF TRUANT OFFICER.

Number of visits to schools	522
“ absences investigated	418
“ cases of truancy	85
“ truants arrested	2
“ sent to House of Reformation	1

STATISTICS OF EVENING SCHOOLS.
(SEASON OF 1891-2.)

	No. Enrolled.	Average Attendance.	No. of Teachers.	No. of Sessions.	Cost of Instruction.	Cost of Janitors' Services.
Prescott School	111	40	*5	42	\$317 00	\$44 00
L. V. Bell	212	62	9	40	332 50	42 00
Burns	49	21	3	42	219 00	44 00
Drawing School (Mechanical)	61	38	3	32	320 00	33 00
Total	433	161	20	-	\$1,188 50	\$163 00

* Including sewing teacher.

Cost of instruction	\$1,188 50
Cost of supplies and lights	497 86
Cost of janitors' services	163 00
Total cost	\$1,849 36

PROGRAMMES OF SEWING TEACHERS.

	MRS. COFFIN.	MISS BOYD.
Monday	L. V. Bell School	Forster School.
Tuesday { A. M.	O. S. Knapp School	Davis and Edgerly Sch'ls
{ P. M.	Burns School	Edgerly School.
Wednesday	Morse School	Prescott School.
Thursday { A. M.	Highland School	Prospect Hill School.
{ P. M.	" "	J. T. Glines School.
Friday { A. M.	Franklin and Cummings Schools	Charles G. Pope School.
{ P. M.	Lincoln School	Charles G. Pope and Bingham Schools.

MR. HADLEY, SUPERVISOR OF MUSIC.

	SCHOOLS.
Monday A. M.	Edgerly, J. T. Glines, Burns.
Tuesday { A. M.	L. V. Bell, Prospect Hill.
{ P. M.	Morse, Franklin.
Wednesday { A. M.	O. S. Knapp, Webster, Charles G. Pope.
{ P. M.	Highland, Lincoln.
Friday { A. M.	Prescott, Edgerly.
{ 12 to 1.30	High.
{ P. M.	Forster.

REPORT

OF THE

SOMERVILLE MYSTIC WATER BOARD.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1892.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEO. I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 27, 1892.

Referred to the committee on printing, to be printed in the annual reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk.*

SOMERVILLE MYSTIC WATER BOARD, 1891.

ALBION A. PERRY, *President.*

GEORGE D. WEMYSS, term expires 1893.

ALBION A. PERRY, term expires 1892.

GEORGE A. KIMBALL, term expires 1891.

CLERK OF THE WATER BOARD.

FRANK E. MERRILL.

SUPERINTENDENT OF WATER WORKS.

NATHANIEL DENNETT.

ASSISTANT SUPERINTENDENT.

FRANK E. MERRILL.

ENGINEER AT PUMPING STATION.

SIDNEY E. HAYDEN.

OFFICE OF THE WATER BOARD AND SUPERINTENDENT.

Prospect Street, corner of Somerville Avenue.

PUMPING STATION.

Cedar Street, near Broadway.

Bills against the department should be rendered to the clerk on or before the first day of each month, and are payable by the city treasurer on the seventeenth of the month.

CITY OF SOMERVILLE.

OFFICE OF THE WATER BOARD, January 8, 1892.

To His Honor the Mayor and the City Council:—

The Somerville Mystic Water Board herewith presents for your information the report of its superintendent, together with a brief report by the engineer at the pumping station, and to those two documents you are respectfully referred for a detailed statement of all the work done under the direction of the board during the year 1891. While it is not deemed necessary to repeat any of the facts and figures contained in the aforesaid reports, the board considers it proper to make the following brief statement as to the condition and needs of the department whose interests it has had in charge during the year now drawing to a close.

AMENDMENT OF CHARTER.

The Legislature, in the year 1890, authorized an amendment of the city charter, by which the membership of the board was reduced in numbers from five to three, while the manner of appointing members was radically changed. The proposed amendment having been ratified by popular vote at last year's municipal election, the members of this year's board were appointed in conformity to the provisions of the amended charter. We cannot doubt that the changes so authorized and adopted will, in the end, prove beneficial to the interests of the public. An executive board composed of three members is likely to act more harmoniously and expeditiously than one having a larger membership, and the sense of personal responsibility is apt to be stronger with the members of a body which is too small to be divided into sub-committees. But the most salutary feature of the new law is, in our opinion, to be found in the manner of appointing members and fixing their terms of service. Under the original charter the entire water board was annually elected by a convention of both

branches of the city council, and vacancies were filled in like manner. Such a method not only deprived the chief magistrate of the city of all authority in the selection of one of the most important municipal boards, but it also rendered it possible for the city council to elect each year a water board no member of which had had the slightest experience in the work of the department intrusted to his care. Under the present system, except in case of vacancies occurring during the year, the mayor can only appoint one member annually, thereby making it reasonably certain that the board will be so constituted as always to have a majority of experienced members.

EXTENSION OF WORKS.

As will be seen by the superintendent's report, a large amount of work has been done during the year in the way of supplying water to new streets which have been opened up for building purposes. This work has called for heavy expenditures of money, but no part of it could well be postponed at a time when the growth of the city was so rapid. In fact, the extension of the water pipes is a tolerably correct index of the city's prosperity, and nothing would so quickly retard the sale and improvement of our vacant lands as a niggardly policy in the extension of the water supply. In every instance, except one, where pipes have been laid in new streets, the board has been satisfied that an immediate annual income of not less than five per cent. would accrue to the city from water rates, and in the one excepted case, where the demand for the water was very urgent for houses already erected, a bond was taken from the abutters guaranteeing a fixed annual revenue. It is probable that the demands for extension will continue unabated for several years yet to come, and liberal appropriations should be made therefor. The regular appropriation for water-works extension the present year was thirty-five thousand dollars. Early in the year, however, and before the appointment of the present water board, it having been found that last year's appropriation was considerably overdrawn, a loan on funded debt account for ten thousand dollars was authorized to provide for the deficiency. Only a part of the loan having been required for that purpose, the balance has been drawn upon, so far as necessary, for the general work of the department. A balance of \$4,111.19 still remains unexpended.

RELAYING WATER PIPES.

The deteriorating condition of the wrought-iron and cement water mains has made it necessary to continue the work of relaying with cast-iron, and in laying out this work the board has endeavored to provide for the future needs of the city by laying larger pipes in all cases, and also providing mains of large capacity in some sections of the city.

The two mains of the Charlestown Mystic Water Works pass through the city, and are connected with the Somerville pipes at different points, thereby furnishing an ample supply of water for Winter Hill and East Somerville.

West Somerville, in addition to other connections, is supplied by a twelve-inch pipe direct from the reservoir; but the section along Somerville avenue, from its junction with Elm street through to the East Cambridge line, is not at present provided with main pipes of sufficient size to furnish an adequate quantity of water.

In order to provide for this district, the board has arranged to lay a main, twenty inches in diameter, from the thirty-inch Charlestown main in East Somerville, through to Union square. From the twenty-inch main a sixteen-inch and fourteen-inch are to extend toward East Cambridge.

A portion of this twenty-inch has been laid during the year, viz.: on Washington street, from Tufts street to Medford street, in place of the old eight-inch cement pipe; a fourteen-inch pipe in place of an eight-inch has been laid in Medford street, from Somerville avenue to the East Cambridge line.

We recommend that next season the twenty-inch pipe be extended through Tufts and Cross streets, to connect with a thirty-inch pipe at the junction of Cross and Pearl streets, and that a sixteen-inch pipe be laid in Mansfield street. During the year a twelve-inch pipe was laid in Cedar street, from Highland avenue to Elm street, where it has been connected with a twelve-inch pipe running through Mossland street, making a continuous line of twelve-inch pipe from the thirty-inch main on Broadway through Cedar street to Somerville avenue.

The work of taking up the old cement-lined pipe, and replacing it with cast-iron, should be continued from year to year. Most satis-

factory results have already accrued from the substitution, in many of the streets, of the latter for the former, as is evidenced by the decreasing number of breaks. During the present year there have been but thirty-five breaks, as against seventy-one in 1890.

HIGH-WATER SERVICE.

The high-water service, which was put into operation for the first time last year, continues to give complete satisfaction. Until the introduction of this system, residents upon the high lands were subjected to grievous annoyance by the scanty water supply, while their property was in constant peril from fire. In fact, some of the finest residential lands in the city were rendered almost valueless for building purposes in consequence of the lack of water. The high-service has brought permanent relief to the more elevated portions of the city, and largely increased the value of hundreds of building lots. Beautiful and substantial houses are being rapidly erected on the summits of our hills, where are to be found the most eligible and healthful locations for the homes of the people. No intelligent taxpayer will to-day question the wisdom of the expenditure which has been made for the introduction of the high-water service, an investment which, in after years, will yield a considerable revenue to the city.

All of the machinery, structures, and appurtenances of the high-service are in good condition and doing excellent work. Another year's trial of the boiler, pump, and stand-pipe has but confirmed the favorable opinion expressed concerning them by our immediate predecessors in office. The pumping plant, as it now exists, is adequate for present needs; but the consumption of water is constantly increasing in our rapidly-growing city, and we believe it will be wise to purchase, at an early date, a second boiler, and equip it for service, so that, in case of any mishap to the boiler now in use, water-takers may not be deprived of their supply while repairs are being made. An additional stand-pipe will soon be required for the high-service system. We would, therefore, recommend that steps be taken towards the purchase of a suitable lot of land for that purpose on the summit of Winter Hill.

PURCHASE OF MYSTIC WATER SUPPLY.

Previous water boards, in their annual reports, have recommended that Somerville enter into negotiations with Boston for the purchase of the Mystic water supply and have clearly pointed out the advantages which might be expected to accrue to our city from such a purchase. While we regret that Somerville is not the owner of its own water plant, and should heartily approve any reasonable plan which might be pointed out for the acquisition of a satisfactory and permanent water supply, we do not believe that it would be wise for Somerville to sunder its present relations with Boston and place entire dependence for the future upon a water franchise which Boston would never alienate until convinced that it had become of little value. Boston has not yet solved her own water problem, and if her growth should be as rapid in the future as it has been in the past, not many years will elapse before she will be obliged to incur great expense in making additions to her present supply.

It is, therefore, hardly reasonable to assume that she would part with her control over a fresh-water lake situated within five miles of her borders until she had come to believe that the waters of the lake were deteriorating so rapidly as to render it probable that they would eventually become unfit for domestic use. It is no secret that the location and surroundings of Mystic Lake are such as to raise grave doubts, in the minds of those best informed, as to the possibility of keeping its waters in a condition of reasonable purity. It has already come under the repeated criticism of the highest chemical and sanitary authorities in the Commonwealth.

Boston, with all her wealth, power, and prestige, has found it a herculean task to keep back the tide of pollution constantly setting towards the lake. It is fed by streams which no human ingenuity or effort has yet succeeded in keeping free from contamination. At its outlet it is menaced by ocean tides. Its water-shed is objectionable, lying as it does in a populous suburban district, where numerous large manufactories are carried on, and is not likely to improve as the population increases in density. It is doubtful if any considerable improvement in the quality of the water will be brought about by the construction of the so-called Metropolitan sewer. Should it ever become necessary to abandon Mystic Lake as a water

supply, as Spy Pond has already been abandoned, on account of its impurity, then it might be highly advantageous for Somerville to have a subsisting contract with Boston for the continuance of a water supply. We think the time may come when Boston and all her near suburbs will unite their water systems, and, through the instrumentality of an impartial commission, take concerted action towards securing a supply from more distant sources than any yet resorted to. Certain it is that the Commonwealth will never permit any one or more of her municipalities to monopolize all the available waters lying near at hand, in derogation of the natural rights of other cities and towns dependent upon the same waters. Some action may yet be taken by the Legislature which will provide for an equitable distribution of the waters lying within a particular district among the cities and towns situated therein. A precedent for such legislation may be found in the recent act establishing the Metropolitan sewer system. Early in the present year an order was adopted by the city council instructing its committee on water, among other things, to consider the expediency of the purchase of the Mystic Water Works. We doubt not that much light will be thrown upon the whole question under discussion by the report of the committee when it appears, and we trust that the labors and investigations of the committee will be of great assistance to future water boards.

CONCLUSION.

It gives the board high satisfaction to be able to say, in conclusion, that the performance of its duties during the year has been rendered easy and pleasant by the fidelity and zeal manifested by Superintendent Dennett, Clerk Merrill, Engineer Hayden, and the other officers and employees of the department.

ALBION A. PERRY.
GEORGE D. WEMYSS.
GEORGE A. KIMBALL.

SUPERINTENDENT'S REPORT.

To the Somerville Mystic Water Board:—

GENTLEMEN, — I herewith present a detailed report of the work of the Somerville Mystic Water Works performed under my supervision during the year ending December 31, 1891. An inventory of tools, appliances, and stock on hand is included.

MAINS.

During the year two miles and 4,094 feet of cast-iron pipe have been laid in extending the main lines, and two miles and 870 feet laid in place of the old cement-lined pipe taken out; and eighty-four gates were set in connection with the same.

There were also laid for the Middlesex Bleachery and Dye Works 1,543 feet of 6 and 8-inch pipe for fire purposes.

Also for I. H. Brown & Co. 26 feet 4-inch pipe.

Also for Fresh Pond Ice Co. 352 feet 6 inch-pipe.

Also for the American Tube Works 75½ feet of 4-inch pipe.

Making a total of five miles and 1,680½ feet laid and relaid for the city and private corporations.

Making a total in the city of sixty-four miles and 2,105 feet.

The breaks on mains numbered thirty-five, and ninety-five feet of pipe were used in their repair.

Of these breaks, twenty-two occurred on 4-inch, twelve on 6-inch, and one on 8-inch.

HYDRANTS.

Thirty-six new hydrants have been set on new and old mains.

Sixteen hydrants have had general repairs, such as new valves, bolts, etc.

One hundred and eighty hydrants have been repacked.

All have been painted the past year, oiled, and carefully looked over.

Five hydrants have been taken out and repaired in the shop, and have been reset in other locations.

Making whole number now in the city 441.

SERVICE-PIPES.

The whole number of services laid the past year was 508.

Length of pipe used, three miles and 312 feet.

Length of trenching for the same, three miles and 1,328 feet.

Average cost of each service, \$18.67.

Twenty-one leaks have been repaired on services.

Ten new services have been put in in place of old.

Forty-six services have been cleared of rust, sediment, and fish.

Forty-four cast-iron boxes have been substituted for decayed wooden ones.

Twenty-eight were shut off for repairs on account of leaks inside the premises, and fifteen for non-payment of water rates.

STAND-PIPES.

One new stand-pipe was located on School street, near the corner of Broadway.

One was removed from Pearl street, near Marshall street.

Eighteen were packed and oiled, and all had new connecting hose, new boxes, and other repairs.

DRINKING FOUNTAINS.

The drinking fountains have had the usual repairs; have been cleaned out several times, etc.; and one on Broadway has had new stop-cock and new waste.

MISCELLANEOUS.

In the shop of the department 18,871 feet (equal to three miles and 3,031 feet) of iron service-pipe was lined with cement, and 518 service-pipes cut and fitted.

Also repairs on gates and hydrants were made, and gate-boxes made and fitted.

The cost of the water works to date is \$537,515.18.

Details of the expenditures on the construction, maintenance, and service account may be found in the report of the city treasurer.

In closing this report the superintendent would take this opportunity to acknowledge the uniform kindness and courtesy received

by him from the Water Board, and for their hearty support and coöperation in the work of the department, which has been of great importance the past year.

Respectfully,

NATHANIEL DENNETT.

APPENDIX TO SUPERINTENDENT'S REPORT.

STOCK AVAILABLE FOR FUTURE USE JANUARY 1, 1892.

Cast-iron pipe	\$3,270 00
Special castings	1,745 12
Gates and hydrants	992 00
Service-pipe and materials	500 00
Sundry materials	466 00
Total	<u>\$6,973 12</u>

TOOLS AND FURNITURE.

Special patterns	\$1,390 69
Tools and machinery	1,283 00
Tools for water services	424 28
Stable department	1,675 00
Office furniture	475 00
Pumping station furniture	179 00
	<u>\$5,426 97</u>

During the year the works have been extended by mains laid in the following streets :—

STREET.	FROM.	TO.	LENGTH IN FEET.	DIAMETER IN INCHES.
Adrian St. . . .	Angle in street . .	Westerly	256	6
Albion St. . . .	Cedar St.	Southeasterly . .	1,440	6
Arthur St. . . .	Bonair St.	Southwesterly . .	31	6
Bennett St. . . .	Prospect St. . . .	Southeasterly . .	439	6
Bradley St. . . .	Pipe laid in 1890	Near Veazie St. .	169	6
Calvin St. . . .	Washington St. . .	Southwesterly . .	248	6
Conwell St. . . .	Francis St.	Southwesterly . .	71	2
Delaware St. . . .	Angle in street . .	Northeasterly . .	79	2
Dell St.	Angle in street . .	Southeasterly . .	} 133 6	4
Elliot St.	Park St.	Southeasterly . .		207	8
Elm St.	Jacob St.	Southwesterly . .	} 77 57	6
Elston St.	Elm St.	Summer St. . . .		424	8
Francesca Ave. . .	Pipe laid in 1890	Southeasterly . .	451	8
Francis St. . . .	Porter St.	Conwell St. . . .	205	8
Giles Pl.	Walnut St.	Northwesterly . .	176	2
Glen St.	Tufts St.	Northeasterly . .	342	6
Gould Ave.	Porter St.	Southeasterly . .	161	2
Greene St.	Laurel St.	Southeasterly . .	198	6
Grove St.	Winslow Ave. . . .	Southwesterly . .	125	8
Hancock St. . . .	Elm St.	Northeasterly . .	412	6
High St.	Opp. C. H. North	Prospect Hill Ave.	150	6
Holt Ct.	S. Wyatt St. . . .	Westerly	160	2
Howard St.	Willow Ave. . . .	Northwesterly . .	260	6
Hudson St.	Near Benton Ave.	Northwesterly to angle in street . .	1,364	8
Jacob St.	Elm St.	Northwesterly . .	162	8
Knapp St.	School St.	Northwesterly . .	394	4
Knowlton St. . . .	Tufts St.	Northerly	340	6
Lee St.	Medford St. . . .	Southwesterly . .	12	8
Lowell St.	245 ft. southwest of Summer St. . .	Southwesterly . .	464	6
Medford St. . . .	Central St.	Southeasterly . .	75	8
Melrose St. . . .	Mystic Ave.	Northeasterly . .	791	6
Miner St.	Ames St.	Southwesterly . .	} 101 36	4
Moreland St. . . .	Heath St.	Southeasterly . .		240	10
Morrison St. . . .	Willow Ave.	Rogers Ave. . . .	433	10
Mt. Vernon Ave.	Heath St.	Northeasterly . .	176	8
North St.	Pipe laid in 1890	Northeasterly . .	859	6
Park Pl.	Angle in place . .	Northeasterly . .	195	2
Porter St.	Highland Ave. . .	Southwesterly . .	38	6
Roberts St. . . .	Lawrence St. . . .	Northwesterly . .	107	2
Rogers Ave. . . .	Morrison Ave. . . .	Northeasterly . .	554	6
Runey Pl.	Runey St.	Northeasterly . .	195	6
Sumner St.	Driveway to city stable	Southeasterly . .	99	2
Thurston St. . . .	Pipe laid in 1890	Northeasterly . .	35	6
Trull St.	Medford St.	Southwesterly . .	302	8

STREET.	FROM.	TO.	LENGTH IN FEET.	DIAMETER IN INCHES.
Vinal St.	Richardson St. .	Northeasterly .	185	2
Warren Ave. . . .	Bow St.	Northeasterly .	6	6
Warwick St. . . .	Pipe laid in 1887	Southeasterly .	40	8
Washington St. .	E. side Beacon St.	W. side Beacon St.	229	6
Wesley St.	170 ft. n.e. Pearl St.	Northeasterly .	5	4
Wesley Pk.	Summer St. . . .	Northeasterly .	49	6
Wigglesworth St.	Pearl St.	Northeasterly .	5	6
Winslow Ave. . .	Grove St.	Northwesterly .	8	6
Waldo St.	Hudson St. . . .	Southwesterly .	234	6
			149	6
			221	6
TOTAL . . . . .	. . . . .	. . . . .	14,380	

STREETS RELAID.

STREET.	FROM.	TO.	LENGTH IN FEET.	DIAMETER IN INCHES.
Bow St.	Union Sq.	Summer St. . . .	652	8
Cedar St.	Elm St.	Highland Ave. .	9	8
Franklin Ave. . .	Washington St. .	Northerly	1,760	12
Franklin St. . . .	Washington St. .	Northeasterly .	10	6
High St.	Boston St. . . .	Opp. C. H. North	42	8
Ivaloo St.	Beacon St. . . .	Harrison St. . . .	364	6
Joy St.	Washington St. .	Southwesterly .	406	6
Laurel St.	Somerville Ave. .	Summer St. . . .	24	6
Linwood St. . . .	Connection with	Washington St. .	991	6
			24	6
			42	6
Medford St. . . .	Somerville Ave.	Cambridge line .	9	8
			1,735	14
Mondamin Ct. . .	Ivaloo St.	Northwesterly .	305	4
Myrtle St.	Washington St. .	Northerly	8	8
Prescott St. . . .	Summer St. . . .	Highland Ave. .	24	6
			1,104	8
			51	6
Professors' Row .	Packard Ave. . .	Southeasterly .	1,091	8
Prospect St. . . .	Bennett St. . . .	Southwesterly .	18	6
Shawmut St. . . .	Washington St. .	Northwesterly .	9	6
Summer St.	Bow St.	Northwesterly .	3	6
			175	10
Tufts St.	Washington St. .	Northwesterly .	78	6
Walnut St.	Bow St.	Northeasterly .	52	10
			264	12
			100	14
Washington St. .	Myrtle St.	Medford St. . . .	700	18
			792	20
TOTAL . . . . .	. . . . .	. . . . .	10,842	

The following table shows hydrants set in 1891 : —

STREET.	LOCATION.	SERVICE.	KIND.
Adrian Street . .	220 feet south of Joseph Street	Low.	Holyoke.
Albion Street . .	421 feet southeast of Cedar Street	Low.	Boston Machine.
Bennett Street . .	150 feet east of Prospect Street	Low.	Coffin.
Boston Street . .	Corner High Street	High.	Holyoke.
Cedar Street . .	289 feet north of Elm Street	Low.	Holyoke.
Cedar Street . .	90 feet north of Sartwell Avenue	Low.	Holyoke.
Cedar Street . .	50 feet north of Hall Street	Low.	Holyoke.
Dell Street . . .	275 feet west of Glen Street	Low.	Holyoke.
Elm Street . . .	Opposite Jacob Street	Low.	Holyoke.
Elliot Street . .	Corner Park Street	Low.	Holyoke.
Francesca Avenue .	305 feet southeast of Elm Street	Low.	Holyoke.
Fresh Pond Ice Co.	In yard	Low.	Holyoke.
Green Street . .	200 feet south of Summer Street	High.	Holyoke.
Highland Avenue .	Corner Grove Street	Low.	Holyoke.
High Street . . .	300 feet west of Boston Street	High.	Chapman.
Hudson Street . .	292 feet southeast of Lowell Street	Low.	Chapman.
Hudson Street . .	At angle in street	Low.	Chapman.
Laurel Street . .	8 feet north of Park Place	High.	Holyoke.
†Linwood Street .	385 feet southeast of Washington Street	Low.	Coffin.
†Linwood Street .	227 feet northwest of Poplar Street	Low.	Holyoke.
Lowell Street . .	665.5 feet southwest of Summer Street	High.	Bigelow.
Melrose Street . .	600 feet north of Mystic Avenue	Low.	Bigelow.
Medford Street . .	98 feet north of Fitchburg R. R.	Low.	Chapman.
Medford Street . .	70 feet south of Fitchburg R. R.	Low.	Chapman.
Medford Street . .	30 feet north of Ward Street	Low.	Holyoke.
Medford Street . .	91 feet south of Ward Street	Low.	Holyoke.
Medford Street . .	93.5 feet northwest of Warren Street	Low.	Holyoke.
Medford Street . .	17 feet southeast of Warren Street	Low.	Holyoke.
Medford Street . .	80 feet southeast of Grand Junction R. R.	Low.	Holyoke.
Mondamin Court .	At Harrison Street	Low.	Boston.
North Street . .	190 feet northeast of City Bound No. 17	Low.	Holyoke.
Prescott Street . .	326 feet southwest of Highland Avenue	High.	Holyoke.
*Prescott Street .	582 feet southwest of Highland Avenue	High.	Holyoke.
Prescott Street . .	257 feet northeast of Summer Street	High.	Holyoke.
Professors' Row . .	140 feet west of College Avenue	Low.	Holyoke.
*Professors' Row .	300 feet west of College Avenue	Low.	Holyoke.
Rogers Avenue . .	300 feet north of Morrison Avenue	Low.	Coffin.
Washington Street	Near Franklin Avenue	Low.	Holyoke.

* Boston Machine replaced by Holyoke. † Reset in new location.

The following table shows gates set in 1891:—

STREET.	GATES.									
	2'	3'	4'	6'	8'	10'	12'	14'	18'	20'
Albion	-	-	-	2	-	-	-	-	-	-
American Tube Works	-	-	1	-	-	-	-	-	-	-
Arthur	-	-	-	1	-	-	-	-	-	-
Bennett	-	-	-	1	-	-	-	-	-	-
Bow	-	-	-	-	1	-	-	-	-	-
Calvin	-	-	-	1	-	-	-	-	-	-
Cedar	-	-	-	2	-	-	3	-	-	-
Elliot	-	-	-	-	1	-	-	-	-	-
Elston	-	-	-	-	2	-	-	-	-	-
Francis	-	-	-	1	-	-	-	-	-	-
Fresh Pond Ice Company	-	-	-	1	-	-	-	-	-	-
Giles Place	-	1	-	-	-	-	-	-	-	-
Glen	-	-	-	1	-	-	-	-	-	-
Gould Avenue	1	-	-	-	-	-	-	-	-	-
Greene	-	-	-	1	-	-	-	-	-	-
Hancock	-	-	-	1	-	-	-	-	-	-
Hadley	-	-	1	-	-	-	-	-	-	-
Holt Court	1	-	-	-	-	-	-	-	-	-
Hudson	-	-	-	-	1	-	-	-	-	-
Ivaloo	-	-	-	1	-	-	-	-	-	-
Jacob	-	-	-	-	1	-	-	-	-	-
Joy	-	-	-	-	1	-	-	-	-	-
Knapp	-	-	2	-	-	-	-	-	-	-
Knowlton	-	-	-	1	-	-	-	-	-	-
Laurel	-	-	-	3	-	-	-	-	-	-
Lee	-	-	-	-	1	-	-	-	-	-
Linwood	-	-	-	-	-	1	-	-	-	-
Lowell	-	-	1	-	-	-	-	-	-	-
Medford	-	-	-	-	1	1	-	-	-	-
Melrose	-	-	-	1	-	-	-	-	-	-
Medford	-	-	-	-	-	1	-	4	-	-
Middlesex Bleachery	-	-	-	3	-	-	-	-	-	-
Miner	-	-	1	-	-	-	-	-	-	-
Mondamin Court	-	-	1	-	-	-	-	-	-	-
Morrison	-	-	-	-	-	1	-	-	-	-
Mt. Vernon Avenue	-	-	-	-	1	-	-	-	-	-
North Packi'g and Prov'n Co.	-	-	-	1	2	-	-	-	-	-
Prescott	-	-	-	-	3	-	-	-	-	-
Professors' Row	-	-	-	-	1	-	-	-	-	-
Roberts	1	-	-	-	-	-	-	-	-	-
Rogers Avenue	-	-	-	1	-	-	-	-	-	-
Runey Place	-	-	-	1	-	-	-	-	-	-
Summer	-	-	-	-	-	1	-	-	-	-
Sumner	1	-	-	-	-	-	-	-	-	-
Tufts	-	-	-	-	-	-	-	-	-	1
Trull	-	-	-	-	1	-	-	-	-	-
Vinal	1	-	-	-	-	-	-	-	-	-
Warren Avenue	-	-	-	-	1	-	-	-	-	-
Waldo	-	-	-	1	-	-	-	-	-	-
Washington	-	-	-	-	-	-	1	-	1	3
Wigglesworth	-	-	-	1	-	-	-	-	-	-
Winslow Avenue	-	-	-	1	-	-	-	-	-	-
Total	5	1	7	27	18	5	4	4	1	4

HYDRANTS DISCONTINUED.

One on High street.

One on Highland avenue, corner Grove street.

One on Medford street, near railroad crossing.

One on Tufts street, near Washington street.

ENGINEER OF PUMPING STATION'S REPORT.

HIGH-SERVICE PUMPING STATION, }
SOMERVILLE, Dec. 31, 1891. }

To the Somerville Mystic Water Board:—

GENTLEMEN,— Below please find statement of the work performed by the high-service pump from January 1st to December 31st, inclusive, 1891:—

Number of days on which pump was run	365
Total pumping time in hours	1,825
Average pumping time per day in hours	4
Average number of strokes per minute	30
Number of tons coal consumed	193
Total gallons of water pumped, allowing one per cent. for loss of head	122,717,000
Average steam pressure	55
Average back-water pressure	38

Respectfully submitted,

SIDNEY E. HAYDEN.

REPORT
OF THE
OVERSEERS OF THE POOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1892.

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 27, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

BOARD OF OVERSEERS OF THE POOR.

HON. CHARLES G. POPE, *Chairman, ex officio.*

NATHAN H. REED	. . . . .	Ward One.
EDWARD B. WEST	. . . . .	Ward Two.
DANIEL C. STILLSON	. . . . .	Ward Three.
CHARLES G. BRETT, <i>President</i>	. . . . .	Ward Four.

COMMITTEES :

On Investigation and Relief . . . MR. BRETT AND MR. WEST.
On Finance . . . MR. STILLSON AND MR. REED.

CHARLES C. FOLSOM, *General Agent.*

FRANK W. KAAAN, *Secretary.*

ALVAH B. DEARBORN, M. D., *City Physician.*

Office: Police Building, Bow Street.

CITY OF SOMERVILLE.

OFFICE OF THE OVERSEERS OF THE POOR, Jan. 20, 1892.

To the Honorable the City Council:—

GENTLEMEN,— In accordance with the requirements of the city ordinances, the overseers of the poor herewith respectfully submit their seventh annual report under Chapter 6 of the Acts of 1885.

For information in reference to the receipts and expenditures of this department for the year, we would refer to the tabulated statements prepared by the general agent and the secretary. A careful supervision of these expenditures has been maintained by the board throughout the year, and we are pleased to report that they have been kept within the appropriation, while at the same time no injustice has been done those dependent upon this department for aid.

It gives us pleasure at this time to express our satisfaction with the faithful and efficient manner in which the general agent and the secretary have performed their respective duties.

CHARLES G. POPE, *Chairman.*
CHARLES G. BRETT, *President.*
NATHAN H. REED.
EDWARD B. WEST.
DANIEL C. STILLSON.

TABLE No. 1.

PARTIAL SUPPORT (OUT-DOOR RELIEF).

Families aided	225
Persons aided	748

TABLE No. 2.

FULL SUPPORT.

In almshouses	8
“ private families	14
“ Boston hospitals	10
“ Massachusetts School for the Feeble-minded	4
“ House of the Angel Guardian	2
Insane persons in private families	5
“ “ “ hospitals	42

TABLE No. 3.
GROSS EXPENDITURES.

	1885.	1886.	1887.	1888.	1889.	1890.	1891.
	\$16,430 32	\$14,341 83	\$13,430 89	\$13,375 98	\$14,610 92	\$15,261 14	\$15,980 49

TABLE No. 4.
EXPENDITURES FOR THE YEAR 1891.

	Rent.	Board.	Groceries.	Towns and Cities.	Public Institutions.	Boots and Shoes.	Dry Goods.	Burials.	Salaries.	Fuel.	Sundries.	Totals Monthly Pay-rolls.
January	\$81 86	\$207 53	\$227 31	\$777 59	\$1,501 70	\$8 25	\$1 75	\$35 00	\$120 83	\$277 60	\$17 30	\$3,256 72
February	75 00	56 00	210 05	-	-	36 55	-	25 00	120 83	93 14	5 97	622 54
March	75 86	194 55	276 58	312 17	951 35	-	4 25	10 00	120 84	84 02	31 90	2,061 52
April	75 57	44 79	130 50	146 39	668 14	27 75	14 75	25 00	120 83	-	25 50	1,279 22
May	83 86	63 11	168 16	-	8 00	-	-	40 50	120 83	17 56	29 38	531 40
June	93 57	205 86	85 55	-	968 42	16 00	3 60	10 00	120 84	-	95 96	1,599 80
July	124 86	45 68	136 77	372 55	606 83	-	-	45 00	120 83	-	23 61	1,476 13
August	80 86	65 40	220 72	30 00	-	-	-	-	120 83	-	20 44	538 25
September	80 57	180 21	96 00	13 53	1,141 23	-	-	-	120 84	-	59 16	1,691 54
October	82 86	91 54	85 96	45 71	489 73	-	2 50	20 00	120 83	-	14 30	953 43
November	82 57	81 93	198 00	-	-	12 75	-	20 00	120 83	94 06	51 79	661 93
December	130 86	241 39	150 50	504 85	48 00	9 75	14 61	-	120 84	70 71	16 50	1,308 01
Totals	\$1,068 30	\$1,477 99	\$1,986 10	\$2,202 79	\$6,383 40	\$111 05	\$41 46	\$230 50	\$1,450 00	\$637 09	\$391 81	\$15,980 49

TABLE NO. 5.

REIMBURSEMENTS.

Commonwealth of Massachusetts	\$995 39
Cities and towns	871 64
Guardians and relatives	305 96
	<hr/>
	\$2,172 99

TABLE NO. 6.

RECAPITULATION.

Appropriation	\$14,000 00
Reimbursements	2,172 99
	<hr/>
Total receipts	\$16,172 99
Total expenditures	15,980 49
	<hr/>
Balance	\$192 50

REPORT
OF THE
BOARD OF HEALTH.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 9, 1892.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, March 10, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE BOARD OF HEALTH, }
CITY HALL, February 29, 1892. }

To the Honorable the Mayor and the City Council:—

GENTLEMEN,— We respectfully submit the following as the fourteenth 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, 1891 :—

MEMBERSHIP.

The membership of the board has remained the same as in 1890. January 28, J. Frank Wellington was reappointed by the mayor and aldermen for a term of two years.

ORGANIZATION.

February 2, officers were elected as follows :—

Chairman, J. FRANK WELLINGTON.

Clerk, WILLIAM P. MITCHELL.

**Inspector*, 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 pre-

*Title changed to Agent June 12.

sented in the following table, under the heads of the months when the complaints were made:—

NUISANCES ABATED IN THE YEAR 1891.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cellar damp	4	-	2	-	-	2	2	6	1	1	1	1	20
Cesspool offensive	1	-	-	1	3	3	-	1	-	-	1	-	10
Cesspool overflowing	1	-	-	-	3	2	1	1	-	-	-	-	8
Connections of drainage pipes defective	3	1	2	3	1	2	5	2	1	2	4	1	27
Drainage defective	3	-	1	-	3	-	-	2	4	-	1	-	14
Drainage emptying into cellar	-	-	1	-	2	-	1	1	-	2	-	1	8
Drainage emptying on surface	3	-	1	-	3	-	-	-	-	2	-	-	8
Drainage not ventilated	2	-	-	-	-	-	2	-	7	-	-	-	11
Drain-pipe defective	2	-	1	1	-	1	-	1	5	-	-	2	13
Drying straw on sidewalk	-	-	-	1	-	-	-	-	-	-	-	-	1
Hennery offensive	-	-	-	-	-	1	-	1	2	-	-	-	4
Hens kept in cellar	1	-	-	-	-	-	-	-	1	-	1	-	3
Manure exposed and offensive	2	-	1	6	-	4	3	2	2	1	-	-	21
Offal on land	-	-	3	2	2	-	-	1	-	-	-	-	8
Offensive odor in and about dwellings	2	-	1	2	2	4	5	5	6	-	-	1	28
Opening in drain-pipe in cellar	-	-	-	-	-	-	1	-	1	-	1	-	3
Pigs kept without license	-	-	1	1	2	1	1	2	-	2	-	-	10
Premises filthy	-	-	-	1	-	1	-	-	-	-	-	-	2
Premises untidy	-	-	2	4	-	2	1	-	-	-	-	-	9
Premises undrained	1	-	-	-	-	-	-	-	1	1	-	-	3
Privy-vault defective	2	-	6	1	2	2	3	4	2	2	-	-	24
Privy-vault full	4	4	12	15	6	16	7	22	6	4	2	-	98
Privy-vault offensive	3	4	12	15	11	16	11	26	6	6	3	-	113
Removal of bodies of animals burned at fires	-	-	-	-	-	-	-	-	-	2	1	-	3
Rubbish in cellar	3	-	-	-	-	1	-	2	-	-	1	-	7
Sewer-gas in house	2	1	-	-	-	1	-	-	-	-	3	1	8
Slops thrown on surface	1	-	-	-	-	-	-	-	-	-	-	-	1
Stable infected with glanders	-	-	-	-	-	-	-	-	2	-	1	1	4
Stable and stable premises filthy and offensive	1	-	-	-	-	-	-	-	-	-	1	-	2
Stagnant water in house cellar	-	-	-	1	-	-	-	-	-	-	-	-	1
Stagnant water on surface	3	-	-	3	2	3	2	-	1	1	-	-	15
Waste-pipe defective	2	-	1	-	-	3	1	-	-	-	1	1	9
Waste-pipe not trapped	4	-	1	3	1	5	1	2	-	-	-	-	17
Water-closet defective	3	-	4	2	-	-	1	4	8	2	4	2	30
Water-closet insufficiently supplied with water	1	-	1	2	-	-	5	-	6	-	2	-	17
Water-closet offensive	2	-	2	-	-	-	1	1	2	-	3	-	11
Total	55	10	55	64	43	70	54	86	64	28	31	11	571

Number of nuisances abated	571
“ “ referred to board of 1892	116
“ “ complained of	687
“ complaints (many covering more than one nuisance)	264
“ tenements ordered vacated	1
“ notices mailed	202
“ “ served by constables	3

Probably as many nuisances as the number mentioned in the preceding table have been abated on verbal notice from the agent, without any action of the board; and of such no record has been made.

GLANDERS.—As may be seen by the foregoing table [stables infected with glanders], several cases of glanders have occurred during the year. When this disease is encountered the promptest action is necessary, and that we may have opportunity to take such action, we ask that owners of horses notify the board or its agent immediately on the appearance of this disease.

SEWER OUTLET, MYSTIC AVENUE.—A complaint, signed by a large number of the residents of Winter Hill, was presented to us concerning the bad odors from the sewer outlet at Mystic avenue, near the Broadway Park. This sewer drains a large territory, and empties, on the northeasterly side of Mystic avenue, into an open ditch, which extends across the marshes to a culvert under Middlesex avenue, and thence to the Mystic River. A tide-gate at its lower end prevents the contents of this ditch from discharging during about six hours in every twenty-four; and this, with the deposits on the flats, causes a nuisance which demands early attention.

BAD ODORS AT EAST SOMERVILLE.—The following reports, which were presented to the Board of Aldermen February 24, 1892, are self-explanatory:—

OFFICE OF BOARD OF HEALTH, CITY HALL, }
SOMERVILLE, Mass., February 24, 1892. }

To the Honorable Mayor and Board of Aldermen of the City of Somerville:—

GENTLEMEN,—In August, 1890, an order was passed by the Board of Aldermen requesting the Board of Health to investigate the

causes of the bad odors complained of by the residents of East Somerville. Since then the matter has received the careful attention of this board, and we herewith submit our report on the same.

Realizing the difficulty of locating a particular odor, when the same may originate from one or more places conducting similar kinds of business, and desiring to make a thorough and impartial investigation, we called to our assistance Dr. T. M. Drown, professor of chemistry at the Massachusetts Institute of Technology, and he has been engaged in this work since the early part of last year.

It proved, however, a much more difficult matter than we anticipated, and for a long time but very little progress was made.

A thorough examination of all parts of the works and a study of the different methods of destroying the noxious odors at the slaughter-houses of John P. Squire & Co. and the North Packing and Provision Company has been made by us in connection with Professor Drown, and we have become familiar with all the disagreeable features of the slaughtering business. Our work, however, was brought to an abrupt termination in January of this year, when the fact developed that in the remodelling of the works of John P. Squire & Co. it had been decided by them to adopt an entirely new system of disposing of the gases and noxious odors arising from their works, and plans to this end have been made and work has already begun upon them.

We are informed by the engineer in charge of this work that the new system contemplates changes in the fertilizer room, which, he claims, will remedy the serious trouble we find to exist there. What the result will be can only be determined when the alterations are completed, and, consequently, it was deemed proper by this board to discontinue our work of investigation for the present.

The methods adopted by Professor Drown and the conclusions arrived at are fully set forth in his report to the Board of Health, a copy of which is submitted herewith.

In what he has to say regarding the works of the North Packing and Provision Company we desire to fully concur. Every facility was here given us to make a thorough examination of their methods, and neither time nor expense was spared by them to assist us in our investigations.

At John P. Squire & Co.'s a bad state of affairs at present exists. Much of it, however, may arise from the confusion incidental to the

large fire that occurred here last October. If, however, after the work of remodelling is completed, greater attention is not given to the cleanliness of the buildings and surroundings, it will be necessary for decisive action to be taken by this board.

Respectfully submitted,

J. FRANK WELLINGTON.

CHARLES H. CRANE.

ALVAH B. DEARBORN.

J. F. Wellington, Esq., Chairman of the Board of Health, Somerville, Mass. :—

SIR, — Somewhat over a year ago the Board of Health, in pursuance of an order of the Board of Mayor and Aldermen, requested me to ascertain definitely for them “the cause of the bad odors complained of by the residents of East Somerville.” The investigation has proved to be much more difficult and time-consuming than I anticipated. The universal opinion of the residents has been that the odors came from the large slaughtering houses of J. P. Squire & Co. and the North Packing and Provision Company. To prove or disprove this opinion, and to discover which of the two might be the greater offender, was not as easy a problem as it at first appeared. I give you herewith, in a condensed form, the results of prolonged investigations, whereby I have become convinced that the odors in question come mainly from the works of J. P. Squire & Co., and to a much less degree from the North Packing and Provision Company.

These odors arise in part from the large hog-pens at these works, but mainly from the processes involved in utilizing the refuse not used for food—the offal which is converted into grease and fertilizing products. They can be noticed almost at any time in the immediate vicinity of these large factories, and if one goes through the works when in active operation, there can be no doubt in his mind of the identity of the odors here perceived with those which have so long proved a nuisance to people living in East Somerville.

The variety of offensive odors in these works is very great, but they may all be referred to noxious gases resulting from the decomposition of animal matter. Even when care is taken to conduct all the operations in a manner so as to be as little objectionable as possible, and when strict cleanliness is maintained throughout the works, it is impossible to carry on slaughtering, combined with the utilization of all the offal, without generating offensive vapors. When strict care and cleanliness are not observed, there is no limit to the amount of disgusting gases which may be developed.

As I have already said, there can be no doubt of the identity of the odors produced at these slaughtering houses with those noticed in East Somerville; but the question naturally arises,—Is it possible for these slaughtering-house odors to be carried for a distance of a mile or more and then have sufficient intensity to cause annoyance?

It was evident to me that such a condition of affairs could only exist by reason of the offensive gases being given off at a considerable height, so that they could be freely carried by the wind in any direction, and I naturally thought of the high chimneys as the source of the trouble.

At the works of the North Packing and Provision Company I found that no gases of any kind went into the chimney except those from the boiler fires; but at the works of J. P. Squire & Co. I found there was a pipe leading from the condensers of the rendering tanks and from the fertilizer drier directly into the stack, a short distance above the fires.

In order to settle definitely the question whether any odor from the works entered the atmosphere through the chimney, I had placed, on both of the stacks, pipes, one end of which terminated inside the top of the chimney in a funnel-shaped enlargement, and the other end was near the ground, where the gases could be conveniently tested at any time.

The pipe on the chimney at North's was a one-inch iron pipe, from which smoke issued but slowly at the lower end; but by means of an exhaust blower the gases could be brought down freely. As was expected, no odor was perceived at this pipe but that coming from the burning of soft coal.

On the chimney at Squire's a three-inch galvanized iron pipe was placed, which gave a constant downward current of smoke. Contrary to my expectations, there has been at no time during the two

months that this pipe has been in place any odor at the outlet but that of smoke. This indicates either that no gases from the condenser enter the stack or that, if they do enter it, they are changed beyond recognition by the time they issue at the top. I do not, however, consider the experiment concluded, for I have been unable to find out what is the construction of the condenser used at Squire's works, and my request to have a cock put into the iron pipe leading into the chimney, that I might ascertain the character of the gases (if any) entering the chimney, was not complied with. The experiment, as far as it goes, simply proves that for a certain time the gases coming from the chimney at Squire's works did not have the offensive character which characterizes the works themselves.

I then directed my attention to the roofs of the two works to ascertain what odors could be recognized there. At Squire's the roof is directly over the floor where the fertilizer is dried and where the dead hogs are scalded, and I have always found the atmosphere here extremely offensive. This floor, to which the solid refuse from the tanks is brought in chain buckets from one of the lower floors to be pressed and dried, is, in appearance and odor, very repulsive. The steam and gases escape through open windows on the roof, and it is only a matter of the condition of the atmosphere and the direction and force of the wind where the gases will be carried. I have repeatedly traced the odor from points to the leeward of the works directly to this roof at times when none of the rendering tanks were in operation. The odors coming from this drying floor are variable in character and intensity. They are the odors of decomposing animal matter, and are, sometimes, peculiarly disgusting. All the odors about the works may be, at times, found on this floor.

It is not only when the driers are in active operation that this upper floor is offensive. The large amount of fertilizer which is generally spread out to dry, combined with the odor with which the whole place is permeated, is sufficient to impregnate the atmosphere when windows are open. There is no doubt in my mind that the operations conducted on this upper floor, at the works of J. P. Squire & Co., are the direct source of offensive odors which are carried by the wind to distant points.

I am not now prepared to say to what extent the grease tanks and dead-hog tanks may also be a source of nuisance. I have already said that I have not been able to detect in the gases which

issue from the top of the chimney at Squire's the odor which is characteristic of these tanks in operation. But I cannot say that the odor may not at times pass from the tanks to the chimney, when, for instance, the condensers are not in good working order, when the supply of water is deficient, or when substances unusually offensive are treated in the tanks.

The information which I could obtain concerning the connection of these tanks with the chimney is, as I have already intimated, not as complete as I could desire.

However this may be, there exists on the fertilizing floor at Squire's an adequate explanation for much, if not all, the trouble complained of.

The odor on the floor on which the tanks are charged at Squire's is often very disgusting, and it must be said that, in the general conduct of the operations at Squire's, there is a lack of cleanliness that produces both within the works and about the grounds repulsive odors, which might easily be avoided. It is not unreasonable that these products of decay about the works and grounds may, when particularly strong and abundant, be carried to a distance by the wind as well as the odors which escape from the upper story.

At the works of the North Packing and Provision Company there is no connection between the tanks and the chimney. All of the steam and gases from the tanks are, by means of efficient ejector-condensers, forced into the sewer, and I have not heard that the contents of the sewer were thereby rendered more obnoxious.

On the roof at North's the principal odor noticed is that which comes from the ventilators on the top of the hog-house. At times, when there are a great many hogs in this building, the odor is very strong, and might, I think, be carried by the wind to a long distance. One night when the hog-pen odor was well marked on Washington street, in East Somerville, I found the odor from these ventilators on the roof very strong. There were at this time about three thousand hogs in the building.

There is also to be noticed on the roof at North's the odor from the "skin room." This is peculiarly disagreeable, but I cannot think it would be perceived at any great distance from the works, as the room is not large and the amount of air escaping from it is very small. The odor from this room is not noticed on the roof unless one stands near the ventilator windows. There is here also the odor

from the ventilators over the scalding vats, which, as at Squire's, is not of sufficient volume to carry to any great distance.

The fertilizer drying room at North's is several floors below the roof, and no odor from this room can be perceived on the roof. The operations connected with the drying of the fertilizer at North's are very much less disagreeable than at Squire's, owing to the use of closed vessels, the steam and gases from which are drawn off by means of the condensers above mentioned.

It may, therefore, be said that the principal odor coming from the roof of North's works is that from the hog-house, and little or none from the operations carried on in the works.

It is only fair to say that the most scrupulous cleanliness is enforced in the works of the North Packing and Provision Company in all the rooms and about the grounds. I do not believe that it is possible to carry on works of this character with less offence than is done at these works. The disagreeable odors about these works are mainly those connected with making the fertilizer, and, owing to the methods employed at these works in this department, the odors are reduced to a minimum. The fact, moreover, that this operation is carried out on one of the lower floors renders it less likely that the odors will be carried by the wind to a long distance.

It is impossible to have large slaughtering houses in the heart of a city without creating more or less of a nuisance; it is inherent in the operations which are conducted there. I think, however, that with care in planning the details of the works and with vigilance in maintaining cleanliness, that the radius within which this nuisance will make itself felt may be very much restricted.

[Signed]

THOMAS M. DROWN.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, February 1, 1892.

PERMITS.

The record of permits to keep cows, swine, and goats, to collect grease, and for the removal of manure, is as follows:—

Cows.—Forty-six applications were received for permits to keep 250 cows. Thirty-eight permits were granted for keeping 212, and four applications were refused for permits to keep 23. One application for a permit to keep 3 was withdrawn, and two applications for

permits to keep 7 remain undecided. No fee is charged for these permits.

SWINE.—Forty-one applications were received for permits to keep 220 swine. Thirty-five permits were granted to keep 211, and the six remaining applications for permits for 9 swine were refused. The fee is \$1 for each swine.

GOATS.—Fifteen applications were received for permits to keep 19 goats, and they all were granted. Fee for each goat, \$1.

GREASE.—Five applications were received for permits to collect grease, all of which were granted. The fee is \$2. Three of those licensed resided in Somerville, and two in Charlestown.

MANURE.—Two permits were issued during the year for the carting of manure through the city in the day-time between May 1 and November 1, and two were issued for the removal of manure from stables in the city in the day-time within the same period.

PEDLERS.

One hundred and five certificates were issued to hawkers and pedlers under the ordinance formerly numbered forty, but numbered thirty in the Revised Ordinances of 1891. This number, added to the number previously issued, which was 505, makes the total number issued to the end of the year 1891, 610.

These certificates are not required to be renewed, but are good for an indefinite time, and a large number of those who have obtained them have ceased to carry on the business.

All pedlers are required to present their vehicles for inspection by the agent of the board at the police building monthly, so that the agent may see that the vehicle is kept clean and is properly marked with the owner's name and number.

ASHES.

Ashes and house-dirt were removed during the first half of the year by Owen Cunningham & Son, at the contract price of \$3,119.00 per annum.

June 12, the following bids were received to remove the ashes and house-dirt for the year beginning July 1:—

Martin Gill	\$4,680 00
Jeremiah McCarthy	4,600 00
John F. Elkins	4,250 00

And the contract was awarded to John F. Elkins for \$4,250.00.

The collections are made weekly, and the six districts into which the city was divided in 1890 for this purpose are stated in detail in our last annual report. The days for collection and the lines of the districts remain the same as therein stated.

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 8 o'clock in the morning of the day when the collection is to be made.

HOUSE OFFAL.

Mr. Henry Gray has removed the house offal during the year, under a three-years' contract, from June 26, 1889.

The contract requires that the offal be collected at least once every week in the months of December, January, February, and March; twice a week in April, October, and November; and three times a week in May, June, July, August, and September.

We propose, after June 26 next, when the present contract will expire, to have the collections made, throughout the year, twice a week at all dwelling-houses, and every day at all provision and fish stores, hotels, and restaurants.

We learn from Mr. Gray that the quantity collected in the year 1891 was about 625 cords.

NIGHT SOIL.

The removal of night soil has been made by Mr. R. M. Johnson, of Arlington, under a contract for three years from February 1, 1891, by the "Odorless" process.

An order book is kept at the Police Station on Bow street.

The contract price which the owner or occupant is charged is four dollars for every load, or part of a load, of eighty cubic feet.

The contractor reports that 470 loads were removed during the year.

DEATHS.

There were 781 deaths and thirty-three still-births in the city during the year, as specified in the following table:—

MORTALITY IN SOMERVILLE IN 1891.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
ZYMOTIC DISEASES.													
<i>Miasmatic.</i>													
Scarlet fever	-	-	-	-	1	1	-	-	-	-	-	-	2
Diphtheria	2	-	-	1	1	-	1	-	3	3	4	3	18
Croup	1	-	-	-	-	1	-	-	1	1	-	-	5
Typhoid fever	1	-	1	2	-	-	-	-	2	2	3	-	11
Erysipelas	2	-	1	1	-	-	-	-	-	-	-	-	4
Diarrhœa	-	1	-	-	-	1	1	3	2	1	-	-	9
Cholera infantum	-	-	-	-	-	2	34	19	5	1	-	-	61
Septicæmia	-	-	-	1	-	-	1	-	-	-	-	1	3
Whooping cough	-	1	3	1	1	-	-	-	1	-	-	-	7
Dysentery	-	-	-	-	1	-	-	2	-	-	-	-	3
Measles	1	-	-	-	-	-	-	-	-	-	-	-	1
Rheumatism	1	-	-	-	-	-	-	-	-	-	-	-	1
Surgical operation on leg	-	-	-	-	1	-	-	-	-	-	-	-	1
CONSTITUTIONAL DISEASES.													
<i>Diathetic.</i>													
Cancer	1	2	2	3	3	1	2	1	3	3	-	1	23
Tumor	-	-	-	-	1	2	1	-	1	1	-	-	6
Dropsy	1	1	-	-	-	2	1	-	1	2	-	1	9
Lympho Adenoma	1	-	-	-	-	-	-	-	-	-	-	-	1
<i>Tubercular.</i>													
Tuberculosis	1	-	1	2	-	1	1	1	2	2	-	2	13
LOCAL DISEASES.													
<i>Nervous System.</i>													
Apoplexy	6	2	-	3	-	-	-	1	-	1	4	5	22
Paralysis	2	-	1	3	1	1	4	1	1	-	1	1	16
Insanity	-	-	-	-	1	1	2	1	1	-	1	-	8
Brain disease	1	2	1	-	1	-	1	1	-	1	1	-	9
Meningitis	4	5	2	4	4	3	2	1	-	1	1	2	29
Convulsions	2	1	4	1	2	1	2	2	1	1	1	3	21
Spinal disease	-	-	-	-	1	-	-	-	-	1	1	-	3
Epilepsy	-	-	-	-	-	-	1	-	-	-	-	1	2
<i>Organs of Circulation.</i>													
Heart disease	7	10	4	5	4	9	1	5	4	8	5	6	68
Embolism in leg	-	-	-	-	-	-	1	-	-	-	-	-	1
<i>Respiratory Organs.</i>													
Pneumonia	14	5	9	6	8	2	2	2	2	6	5	16	77
Bronchitis	3	2	6	1	3	-	2	-	2	-	2	2	23
Hemorrhage	-	-	-	1	1	1	1	-	4	-	-	2	11
Phthisis pulmonalis	5	9	5	7	8	12	4	5	3	7	6	8	79
Pleurisy	-	-	-	-	-	-	-	-	-	-	1	-	1
Asthma	1	-	1	-	-	-	-	-	-	-	1	-	3
Influenza	-	-	-	1	2	2	1	-	-	-	-	1	7
Laryngitis	1	1	-	-	-	-	1	-	-	-	1	1	5
Congestion of lungs	1	-	1	-	1	-	-	-	-	-	-	-	3
Pulmonary edema	-	1	-	-	-	-	-	-	-	-	-	-	1
<i>Digestive Organs.</i>													
Gastritis	-	-	-	-	-	-	2	1	1	1	-	-	5
Peritonitis	-	1	1	1	1	1	1	-	1	-	1	1	9
Liver disease	1	1	1	3	-	1	-	-	1	1	1	-	10
Obstruction of bowels	-	-	-	-	-	1	-	-	-	-	1	-	2
Inflammation of bowels	-	-	1	-	1	1	1	1	5	-	1	1	12
Hernia	-	1	-	-	-	-	-	-	1	-	-	-	2
Appendicitis	-	-	1	-	-	-	-	-	-	-	-	-	1
Cholera Morbus	-	-	1	-	-	-	1	-	-	-	-	-	2

MORTALITY IN SOMERVILLE IN 1891.— *Continued.*

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
<i>Genito-Urinary Organs.</i>													
Bright's disease	1	4	1	1	1	-	1	-	-	2	-	-	11
Diabetes	-	-	-	-	-	1	-	1	-	-	-	-	2
Cystitis	-	1	-	1	1	-	-	-	-	-	1	1	5
Nephritis	-	-	1	2	1	-	-	2	1	-	-	1	8
Uræmia	-	-	-	-	-	1	-	-	-	-	-	-	1
Childbirth	-	-	-	2	-	-	-	-	1	-	-	-	3
Eclampsia	-	-	-	-	-	-	1	-	-	-	-	-	1
DEVELOPMENTAL DISEASES.													
<i>Of Children.</i>													
Inanition	1	-	3	2	1	2	2	4	7	6	2	1	31
Premature birth and congenital debility	6	2	5	4	3	2	8	5	-	3	4	4	46
Rachitis	-	1	-	-	-	-	-	-	-	-	-	-	1
<i>Of Old People.</i>													
Old age	2	2	3	5	1	1	3	3	4	6	1	4	35
General debility	1	3	-	-	-	2	1	-	2	-	-	-	9
VIOLENT DEATHS.													
Railroad	-	-	-	1	-	-	-	-	2	1	1	-	5
Accidental hanging	-	-	-	-	-	1	-	-	-	-	-	-	1
Asphyxia	-	1	-	-	-	-	-	-	-	-	1	1	3
Sunstroke	-	-	-	-	-	1	-	1	-	-	-	-	2
Unknown	-	-	-	1	-	-	-	-	-	1	-	-	2
Broken back	-	-	-	-	-	-	-	-	-	-	1	-	1
Alcoholism	-	-	-	-	-	-	-	-	-	-	-	1	1
Fracture of skull	-	-	-	-	-	-	1	-	-	-	-	-	1
Fracture of thigh	-	-	-	-	-	-	-	-	-	-	1	-	1
Crushed by falling derrick	-	-	-	-	-	-	-	-	-	-	-	1	1
Total	71	66	60	67	56	58	89	65	61	67	55	72	781
Stillborn	3	3	2	4	1	3	3	2	2	6	1	3	33

Population (estimated) 42,668
 Death rate per thousand 18

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

This board has adjudged small-pox, scarlet fever, diphtheria, typhus fever, and typhoid fever to be contagious and dangerous to the public health, within the meaning of the statute. Our city has been free from small-pox and from typhus fever for several years past. 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.

SCARLET FEVER. — 127 cases of scarlet fever, generally of a mild type, were reported to us during the year, 2 of which resulted fatally. This was a reduction from the number in 1890, when there were 161 cases and 5 deaths.

We place a warning card at the entrance to the dwelling as soon as a case is reported, and fumigate the premises after its termination.

DIPHTHERIA. — This disease has also been somewhat less prevalent than in the preceding year. In 1891 there were 72 cases reported and 18 deaths, while in 1890 the cases reported numbered 117, and the deaths 21.

Warning cards are used in dealing with this disease, and we fumigate, the same as in cases of scarlet fever. An inspection of the premises is made by the agent of the board, and any sanitary defects discovered are required to be remedied as soon as practicable.

TYPHOID FEVER. — In 1891 there were 54 cases of typhoid fever reported and 11 deaths; an increase over the previous year, when there were 37 cases and 10 deaths.

A sanitary inspection of the house and surroundings is made in all cases of this disease. We do not, however, fumigate or use a warning card.

TABLES. — The prevalence of scarlet fever, diphtheria, and typhoid fever in the city during the several months of the year 1891 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 1891.

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	-	-	4	2	50	3	1	33
February . . .	4	-	-	4	-	-	1	-	-
March . . .	5	-	-	6	-	-	1	1	100
April . . .	10	-	-	4	1	25	4	2	50
May . . .	15	1	6	7	1	-	-	-	-
June . . .	14	1	7	4	-	-	2	-	-
July . . .	1	-	-	2	1	-	-	-	-
August . . .	8	-	-	-	-	-	10	-	-
September . . .	4	-	-	4	3	75	14	2	14
October . . .	7	-	-	11	3	27	8	2	25
November . . .	21	-	-	18	4	22	9	3	33
December . . .	27	-	-	8	3	37	2	-	-
Total . . .	127	2	1	72	18	25	54	11	20

DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN THE LAST TEN YEARS.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.									
	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.
January . . .	-	2	-	2	-	1	5	-	-	-	11	2	1	2	1	2	1	1	2	2	1	2	1	2	-	-	3	-	-	1
February . . .	1	-	1	-	1	-	3	1	2	-	5	3	-	2	2	1	3	-	2	-	-	1	-	1	-	-	-	-	1	-
March . . .	-	1	-	1	1	1	4	1	1	-	7	3	3	1	-	-	-	4	2	1	1	-	-	-	-	-	-	-	-	
April . . .	-	1	-	5	-	1	-	-	-	-	8	6	1	2	1	1	3	2	1	1	1	-	-	-	1	-	1	2	2	
May . . .	-	-	-	-	2	1	1	-	1	-	5	1	2	2	4	-	1	6	1	-	1	-	1	-	1	-	1	-	-	
June . . .	-	1	-	1	-	1	1	1	1	-	2	3	1	2	2	2	1	1	1	1	1	-	1	-	1	-	1	-	-	
July . . .	-	-	2	-	-	-	-	1	-	-	1	3	2	2	1	-	2	1	4	1	-	1	1	-	1	2	1	2	-	
August . . .	1	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	1	-	1	1	1	-	2	2	1	-	-	
September . . .	-	1	1	1	-	-	-	-	-	-	1	1	4	3	2	1	1	1	-	3	2	2	3	-	1	4	2	1	2	
October . . .	-	-	1	-	-	6	-	1	-	-	1	2	2	1	2	3	4	2	3	3	3	1	3	-	2	1	3	1	2	
November . . .	-	-	3	2	-	11	-	2	-	-	7	1	4	5	2	1	4	1	3	-	-	2	1	1	2	3	-	1	3	
December . . .	2	-	1	1	-	10	-	-	1	-	4	5	1	4	3	2	1	5	2	-	1	1	-	-	-	2	-	-	-	
Total . . .	4	6	8	14	3	31	15	7	5	2	52	31	21	28	20	11	21	28	21	18	8	13	8	11	3	11	17	7	10	

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.

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, as shown by the census every five years ; it being assumed that the growth in population has been at the same rate as the increase in the number of assessed polls, and has been uniform throughout the city.

MAP OF SOMERVILLE

1892

SCALE: 0 1000 2000 3000 4000 5000 FEET

SHOWING HEALTH DISTRICTS.



Sewers shown thus: - - - - -

TABLE OF DEATHS IN EACH DISTRICT DURING THE LAST TEN YEARS, EXCLUSIVE OF DEATHS IN THE MCLEAN ASYLUM.

Districts	I.		II.		III.		IV.		V.		VI.		VII.		VIII.		IX.		X.		Entire City.	
	Area	337 A.	107 A.	93 A.	171 A.	361 A.	285 A.	194 A.	482 A.	174 A.	456 A.	2,600 A.	456 A.	2,600 A.	456 A.	2,600 A.	456 A.	2,600 A.	456 A.	2,600 A.	456 A.	2,600 A.
Population.	7,790	7,605	2,931	5,180	8,211	1,780	4,454	1,307	2,380	1,030	42,668	7,358	42,668	7,358	42,668	7,358	42,668	7,358	42,668	7,358	42,668	7,358
	Dwellings	1,190	1,109	525	845	1,314	479	757	334	505	299	7,358	299	7,358	299	7,358	299	7,358	299	7,358	299	7,358
Average in each dwelling.	6.6	6.9	5.4	6.1	6.2	3.8	5.9	3.9	4.7	3.4	5.7	6.6	3.4	5.7	6.6	3.4	5.7	6.6	3.4	5.7	6.6	3.4
YEAR.	Number of Deaths.		Number of Deaths.		Number of Deaths.		Number of Deaths.		Number of Deaths.		Number of Deaths.		Number of Deaths.		Number of Deaths.		Number of Deaths.		Number of Deaths.		Number of Deaths.	
	Rate per 1,000.		Rate per 1,000.		Rate per 1,000.		Rate per 1,000.		Rate per 1,000.		Rate per 1,000.		Rate per 1,000.		Rate per 1,000.		Rate per 1,000.		Rate per 1,000.		Rate per 1,000.	
1882.	119	57	42	58	72	32	43	11	17	17	13	11	13	17	11	13	17	11	13	17	11	13
1883.	138	59	49	60	76	40	51	11	28	28	17	17	28	17	17	28	17	17	28	17	17	28
1884.	148	55	42	52	69	32	35	14	27	27	14	14	27	14	14	27	14	14	27	14	14	27
1885.	152	56	40	72	78	31	53	13	25	25	13	13	25	13	13	25	13	13	25	13	13	25
1886.	115	51	38	59	85	28	44	11	24	24	11	11	24	11	11	24	11	11	24	11	11	24
1887.	182	54	45	81	87	37	62	20	28	28	20	20	28	20	20	28	20	20	28	20	20	28
1888.	148	68	44	62	117	33	50	13	26	26	13	13	26	13	13	26	13	13	26	13	13	26
1889.	125	67	48	85	105	28	62	15	26	26	15	15	26	15	15	26	15	15	26	15	15	26
1890.	140	69	48	94	139	46	59	17	27	27	17	17	27	17	17	27	17	17	27	17	17	27
1891.	169	71	68	103	120	75	77	33	42	42	33	33	42	33	33	42	33	33	42	33	33	42
Average death rate per 1,000 for ten years	23	10	20	17	15	28	15	17	17	14	16	17	14	14	16	14	14	16	14	16	14	16

In 1891.

TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH IN SOMERVILLE IN 1891, WITH THE NUMBER AND RATE IN EACH DISTRICT.

DISTRICTS.	CONSUMPTION.		PNEUMONIA.		HEART DISEASE.		CHOLERA INFANTUM.		PREMATURE BIRTH AND INFANTILE DEBILITY.	
	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.	26	3.34	19	2.44	7	0.90	10	1.28	13	1.67
II.	6	0.79	6	0.79	8	1.05	4	0.53	1	0.13
III.	6	2.04	7	2.39	5	1.71	9	3.07	5	1.71
IV.	9	1.74	10	1.92	15	2.89	9	1.74	7	1.35
V.	10	1.22	15	1.83	17	2.07	4	0.49	5	0.61
VI.	7	3.93	6	3.37	3	1.69	12	6.74	8	4.50
VII.	8	1.80	6	1.35	8	1.80	6	1.35	4	0.88
VIII.	4	3.06	5	3.83	2	1.53	4	3.06	1	0.76
IX.	2	0.84	2	0.84	1	0.42	2	0.84	1	0.42
X.	1	0.97	1	0.97	2	1.94	1	0.97	1	0.97
Total	79	1.85	77	1.80	68	1.59	61	1.43	46	1.08

TABLE OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN EACH DISTRICT IN 1891.

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.	16	-	2.05	-	14	3	1.80	0.38	6	-	0.77	-
II.	6	-	0.79	-	11	5	1.45	0.66	9	3	1.18	0.39
III.	25	1	8.53	0.34	13	4	4.44	1.02	7	2	2.39	0.61
IV.	18	1	3.47	0.19	7	2	1.35	0.39	6	2	1.16	0.39
V.	30	-	3.65	-	10	-	1.22	-	8	1	0.97	0.12
VI.	4	-	2.25	-	1	1	0.56	0.56	5	1	2.81	0.56
VII.	8	-	1.80	-	4	-	0.88	-	11	2	2.47	0.45
VIII.	-	-	-	-	4	1	3.06	0.76	2	-	1.53	-
IX.	10	-	4.20	-	7	1	2.94	0.42	-	-	-	-
X.	10	-	9.71	-	1	1	0.97	0.97	-	-	-	-
Total	127	2	2.97	.05	72	18	1.62	.42	54	11	1.26	.25

REPORT OF BOARD OF HEALTH.

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.	1885.			1886.			1887.			1888.			1889.			1890.			1891.			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.								
I.	{ Cases Deaths	5.67 0.37	5.12 2.20	1.83 0.55	2.25 -	2.59 0.52	0.86 0.17	10.48 2.10	1.45 0.32	2.74 0.64	3.51 0.61	2.44 1.07	2.29 0.46	4.24 0.28	3.24 0.84	3.11 0.42	3.55 -	1.51 0.55	0.82 0.14	2.05 -	1.80 0.38	0.77 -	4.53 0.48	2.59 0.84	1.77 0.34	
II.	{ Cases Deaths	2.63 0.19	1.50 0.41	1.50 0.19	1.77 -	2.12 0.35	0.89 -	1.82 -	0.66 -	1.16 0.17	4.07 0.47	0.94 0.31	0.78 0.31	2.32 -	2.17 0.43	1.01 0.29	0.42 -	2.37 0.42	0.69 0.28	0.79 -	1.45 0.66	1.18 0.39	1.97 0.09	1.60 0.36	1.03 0.37	
III.	{ Cases Deaths	8.70 0.97	1.45 0.48	0.48 -	5.03 0.46	0.46 -	- -	3.84 1.71	0.85 0.43	0.85 0.43	0.81 0.40	2.43 0.40	2.43 1.21	1.19 0.37	1.11 4.11	- -	7.97 -	3.18 0.73	1.09 0.37	8.53 0.34	4.44 1.02	2.39 0.61	5.15 0.61	1.99 0.50	1.62 0.38	
IV.	{ Cases Deaths	9.54 0.55	1.64 1.09	1.36 0.82	4.38 0.26	0.77 0.26	0.77 0.26	3.85 0.96	2.16 1.20	1.20 0.48	1.36 -	2.72 1.14	1.71 0.45	1.24 0.88	2.52 0.63	0.84 0.21	3.28 0.21	6.57 1.64	1.03 -	3.47 0.19	1.55 0.39	1.16 0.39	3.87 0.43	2.53 0.91	1.14 0.37	
V.	{ Cases Deaths	6.98 0.17	2.97 0.17	0.17 -	3.46 -	4.78 1.65	0.33 -	4.00 0.62	1.54 0.31	0.93 0.31	2.04 0.15	2.89 1.15	1.59 0.45	4.04 -	4.58 0.94	0.95 0.13	6.34 0.26	2.34 0.26	0.91 0.26	3.65 -	1.22 -	0.97 -	4.36 0.17	2.90 0.50	0.84 0.21	
VI.	{ Cases Deaths	10.27 -	16.59 3.16	0.79 -	2.99 0.75	1.49 -	- -	6.96 0.70	1.39 -	2.08 -	2.63 -	1.98 0.66	1.32 -	3.65 -	0.61 -	2.43 -	6.58 -	4.19 0.59	2.39 1.19	2.25 -	0.62 0.56	2.81 0.56	5.05 0.21	3.83 0.71	1.69 0.25	
VII.	{ Cases Deaths	7.34 1.60	3.51 1.28	1.60 0.64	5.43 -	4.22 0.30	0.60 0.30	8.45 0.56	0.85 0.28	1.41 0.28	5.59 0.27	1.07 0.53	1.07 -	3.45 -	4.68 0.98	0.41 -	5.26 -	3.37 -	0.95 0.24	1.80 -	0.88 -	2.47 0.45	5.35 0.35	2.65 0.48	1.07 0.28	
VIII.	{ Cases Deaths	7.51 -	7.51 -	6.44 -	1.01 -	- -	- -	17.05 1.89	- -	3.79 -	7.17 1.77	- -	4.52 0.88	2.49 -	4.14 0.83	- -	3.27 -	4.08 -	1.63 0.81	- -	3.06 0.52	1.53 0.23	2.56 0.39	5.50 0.52	2.68 0.23	2.56 0.39
IX.	{ Cases Deaths	22.81 -	3.60 -	1.20 -	6.24 -	3.97 0.57	1.70 -	5.82 0.53	0.53 -	1.06 -	7.51 1.50	3.00 0.50	2.00 1.00	- -	4.63 -	1.85 -	1.79 -	2.23 -	0.45 -	4.20 -	2.94 -	0.42 -	6.91 0.29	2.99 0.28	1.18 0.14	
X.	{ Cases Deaths	9.55 1.36	4.09 -	2.72 -	5.15 -	10.30 -	- -	8.40 -	4.80 -	- -	4.54 -	2.27 1.13	3.40 1.13	2.10 -	8.40 4.20	- -	4.13 -	1.03 -	2.06 -	9.71 -	0.97 -	0.97 -	6.23 0.19	4.55 1.09	1.17 0.16	
City	{ Cases Deaths	7.54 0.47	3.67 0.93	1.37 0.37	3.47 0.09	2.87 0.63	0.63 0.09	5.94 0.91	1.29 0.32	1.20 0.32	3.42 0.42	2.09 0.59	1.75 0.45	4.94 0.18	3.34 0.72	1.57 0.18	4.01 0.07	2.89 0.54	0.97 0.24	2.97 0.05	1.62 0.42	1.26 0.25	4.61 0.31	2.55 0.59	1.25 0.28	

NUISANCES ABATED IN EACH DISTRICT IN 1891.

DISTRICT. Population (estimated).	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total.
Cellar damp	4	3	-	3	6	1	1	1	1	-	20
Cesspool offensive	-	-	-	2	3	2	-	1	-	2	10
Cesspool overflowing	-	-	-	2	2	2	-	1	-	1	8
Connection of drainage pipes defective	5	3	1	3	4	5	4	-	2	-	27
Drainage defective	2	3	6	1	1	-	1	-	-	-	14
Drainage emptying in cellar	1	2	1	-	2	2	-	-	-	-	8
Drainage emptying on surface	1	-	-	-	3	2	-	1	-	1	8
Drainage not ventilated	1	2	4	-	2	-	-	-	1	1	11
Drain-pipe defective	1	3	1	1	5	-	-	1	-	1	13
Drying straw on sidewalk	-	-	-	-	-	-	-	1	-	-	1
Hennery offensive	-	1	-	1	1	1	-	-	-	-	4
Hens kept in cellar	-	-	-	1	1	1	-	-	-	-	3
Keeping pig without license	1	1	1	-	3	1	-	2	1	-	10
Manure exposed and offensive	8	4	-	-	4	4	1	-	-	-	21
Offal on land	2	1	4	-	-	-	-	-	-	1	8
Offensive odor in and about dwellings	1	4	5	2	8	4	3	-	1	-	28
Opening in drain-pipe in cellar	-	1	-	2	-	-	-	-	-	-	3
Premises filthy	-	1	-	-	-	1	-	-	-	-	2
Premises undrained	-	1	-	2	-	-	-	-	-	-	3
Premises untidy	6	2	-	-	-	1	-	-	-	-	9
Privy-vault defective	16	-	1	3	3	1	-	-	-	-	24
Privy-vault full	50	3	6	14	14	3	1	6	1	-	98
Privy-vault offensive	52	4	6	16	20	2	4	7	1	1	113
Removal of bodies of animals burned at fires	1	1	-	-	1	-	-	-	-	-	3
Rubbish in cellar	4	-	-	3	-	-	-	-	-	-	7
Sewer-gas in house	2	2	1	1	-	-	1	1	-	-	8
Slops thrown on surface	-	-	-	-	1	-	-	-	-	-	1
Stable affected with glanders	-	-	-	1	1	1	1	-	-	-	4
Stable and stable premises filthy and offensive	-	-	-	1	1	-	-	-	-	-	2
Stagnant water in house cellar	-	-	-	-	-	1	-	-	-	-	1
Stagnant water on surface	1	1	4	1	3	1	2	-	-	2	15
Waste-pipe defective	3	2	-	-	1	1	-	1	-	1	9
Waste-pipe not trapped	5	4	-	1	2	-	3	-	-	2	17
Water-closet defective	3	6	6	6	4	2	1	-	1	1	30
Water-closet insufficiently sup- plied with water	1	4	5	2	4	-	-	-	-	1	17
Water-closet offensive	4	1	2	1	-	1	1	-	1	-	11
Total	175	60	54	70	100	40	24	23	10	15	571

APPROPRIATION FOR HEALTH DEPARTMENT AND
EXPENDITURES THEREFROM, 1891.

CREDIT.

Appropriation	\$7,000 00	
Receipts for permits to keep swine and goats and collect grease	243 00	
	<hr/>	
Total credit		\$7,243 00

DEBIT.

Expenditures : —

For inspector's salary	\$1,000 00	
collecting ashes	3,686 27	
collecting offal	2,150 20	
burying dead animals	188 63	
vaccine virus	17 00	
books, stationery, printing, etc.,	66 75	
care of ash dumps	53 39	
rent of post-office box	4 00	
sulphur	18 44	
oil of peppermint	14 05	
fumigating	7 50	
constable's fees	1 50	
inspection at works of E. I. Braddock	25 00	
funnel pipes, etc.	75 00	
tools	2 55	
car fares	16 45	
carriage hire	17 50	
incidentals	8 00	
	<hr/>	
Total debit		7,352 23
		<hr/>
Amount overdrawn		\$109 23

J. FRANK WELLINGTON.
CHARLES H. CRANE.
ALVAH B. DEARBORN.

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REPORT
OF THE
CITY PHYSICIAN.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 13, 1892.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, January 13, 1892.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE CITY PHYSICIAN, January 1, 1892.

To His Honor the Mayor and the City Council :—

The following is a summary of my work as city physician for the year ending December 31, 1891 :—

One thousand and thirty-six visits have been made.

The number of persons treated at the office, 321.

There have been sixteen deaths : four of consumption, two of pneumonia, two of diarrhœa, and one each of the following diseases : Diphtheria, bronchitis, heart disease, whooping-cough, marasmus, enteritis, typhoid fever, and spinal disease.

Twenty-three visits have been made at the police station.

The number of children vaccinated, 148.

Four certificates have been given where persons died unattended by a physician.

Seven women have been attended in childbirth.

Two examinations were made for the police force.

Six persons have been examined for insanity, and the same committed to the asylum.

Respectfully submitted,

ALVAH B. DEARBORN,

City Physician.

REPORT
OF THE
TRUSTEES OF THE PUBLIC LIBRARY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1892.

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 27, 1892.

Concurred in.

WILLIAM P. MITCHELL, *Clerk pro tem*.

CITY OF SOMERVILLE.

PUBLIC LIBRARY, January 1, 1892.

To the City Council:—

In their report for the year ending December 31, 1891, the trustees of the Public Library placed much stress upon the wants of the library and the increasing demand for larger annual appropriations by the city.

In order that these wants may be made apparent, the condition of the material now on hand should be first considered.

The report of the librarian shows that there are on hand, of books of all kinds, in good, bad, and indifferent condition, 19,719 in number. This is the accumulation of the last nineteen years, during which a large and increasing population have made constant use of the advantages which the library has afforded.

The circulation shows a marked increase in 1891. The circulation in 1889 was 88,381; in the year following, 88,971; and in 1891 it reached 96,181, an increase of 7,210.

This may be accounted for by the increase in the number of persons who took out books during the year.

The number of names registered in 1890 was 5,131. During 1891 the number reached 7,162. This is the number of people having taken books within the last two years. It is easy to perceive what effect a constant use by so large a number of readers will have upon books. Covers become detached and torn, necessitating new binding; pages and leaves are worn out, dingy, and, in some cases, filthy and unfit for circulation.

This mass of rubbish, daily increasing, must be replaced. The librarian reports that 322 books were withdrawn in 1890 because they were worn out.

It is the desire of the trustees to keep the public supplied with the more important new publications.

Many old books of the above category are from necessity kept on the shelves.

If the growth and character of the library are to keep pace with the demands of the public, adequate means must be provided. Other wants besides that of the literary department are likewise pressing. The heating apparatus unexpectedly required extensive repairs, in order to render the rooms comfortable for occupation.

A new boiler has been put in, at an expense of about \$500, and its payment has been left to the next year's appropriation.

Some shelving, as well as some furniture, have also been required, and obtained, which also are yet to be paid for. To meet all these wants, there should be at least an appropriation of \$5,000.

It cannot be said that the amount furnished by the city has been more than adequate; on the contrary, the board of trustees for several years have urged the necessity for still larger sums, if the character and condition of the library are to be maintained on a creditable basis.

According to the "Report of the Free Public Library Commission," the city of Somerville does not compare favorably with the large cities and towns of the Commonwealth in what it is doing for its free Public Library.

The following tabular statements show what other cities and towns have done for their libraries:—

CITY OR TOWN.	POPULATION.	BOOKS.
Brookline	12,000	35,000
Chicopee	14,000	11,500
Clinton	10,000	16,000
Fall River	75,000	40,000
Fitchburg	22,000	20,000
Haverhill	27,000	50,000
Springfield	44,000	71,000
Somerville	40,000	19,719
Taunton	25,000	31,000
Waltham	18,000	17,500
Westfield	10,000	13,800

In proportion to population, Somerville stands the lowest on the list. The attention of the City Council is especially invited to the comparatively small cost of maintaining the library last year.

The appropriation made in 1891, exclusive of the dog tax, which by law must be expended for the public library or schools (See Pub. Sts., ch. 102, sect 107), is small compared with the population or the valuation of the city.

The sum appropriated in 1891 was \$3,000. The population is probably not less than 42,000, making a tax averaging about seven cents to a person. Taking the city valuation of property at (\$36,000,000) thirty-six million, the amount given to the library would make a tax of one-twelfth of a mill on a dollar.

By making a personal application to a taxpayer who is assessed for (\$10,000) ten thousand dollars, his proportional share of the expense of maintaining the Public Library is less than one dollar.

It hardly seems necessary to the trustees that they should dwell upon the importance of a good public library to every community.

The "Free Public Library Commission" voiced the general sentiment when they say in their report: "A free public library is a good business investment for any town. Experience shows that the amount expended for it will be returned many fold, not alone in the intellectual and moral stimulus to the people, but also in material prosperity and in the increased value of property."

For a more detailed statement of the condition of the library and the transactions of the year reference is made to the report of the librarian.

In closing, it is but due to say that those having the immediate charge of the library have been faithful in the discharge of their duties.

Respectfully submitted,

CHARLES S. LINCOLN, *President.*

C. E. RYMES.

GEORGE A. BRUCE.

WILLIAM E. WELD.

JAMES E. WHITAKER.

J. HENRY FLITNER.

CHARLES H. BROWN.

JOHN B. VIALL.

E. C. CLARK.

LIBRARIAN'S REPORT.

The nineteenth annual report, giving the operations of the Somerville Public Library for the year 1891, is herewith submitted:—

BOOKS.

The present number is 19,719. Of this number 1,568 volumes have been added during the past year, including bound periodicals.

One newspaper has been donated and four books. Two hundred and twenty have been worn out and discarded.

Among prominent purchases of the year may be mentioned: "Typical Elms and Other Trees of Massachusetts"; "Iconographic Encyclopædia," seven volumes; "Historical and Genealogical Register," forty-four volumes; "Proceedings of Massachusetts Historical Society," twenty-seven volumes; "Family Crest Book," two volumes; "Nantucket Historical Register," eight volumes; "Hind's Middlesex County," two volumes; "York Deeds," six volumes; "Harvard Book," two volumes; "History of the Supreme Court, U. S."; "Masterpieces of Industrial Art," three volumes; "London, Past and Present"; "Art and Criticism," "Practice of Pharmacy," "The Best Books."

While for general circulation "The Sepoy War and Mutiny," "The First Crossing of Greenland," "On the Border with Crook," "Ocean Steamships," "Canada and the Canadian Question," "Pharaohs, Fellahs, and Explorers," "Battlefields and Victory," "Practical Electricity," "History of Chemistry," "Arcadian Days," "Life of Chopin," "Elizabeth of Roumania," "Life of Napoleon III.," "Memoir of Jenny Lind Goldschmidt," "Christopher Columbus," by Winsor, "Life of Sir Robert Peel," "Florentine Nights," "Struggles of the Nations," "Equatorial Africa," "Our Italy," "Sharp Eyes," "Spanish American Republics," "Harlein Miscellany," "Women of Turkey," have been added.

The number of new readers registered in the past year is 2,039, making 7,015 who have taken books within the past two years.

CIRCULATION.

The library has been open 304 days, and 96,181 books have been used. Of this number 1,054 were used for reference, and 95,127 for home use.

The following table gives volumes, circulation, and expenses for the ten years commencing with 1881:—

YEAR.	VOLUMES.	CIRCULATION.	SALARIES.	BOOKS AND PERIODICALS.	OTHER EXPENSES.
1881 . .	9,035	67,649	\$1,297 25	\$1,272 04	\$322 94
1882 . .	9,766	67,673	1,304 19	971 91	407 49
1883 . .	10,574	70,531	1,307 31	1,282 92	177 60
1884 . .	11,197	72,591	1,278 05	1,315 06	539 19
1885 . .	12,208	66,092	1,298 30	1,748 89	666 71
1886 . .	13,146	77,610	1,537 17	2,325 03	1,491 16
1887 . .	14,095	80,559	1,590 83	1,901 34	1,129 61
1888 . .	15,833	81,844	1,608 12	3,055 06	2,079 95
1889 . .	17,045	88,381	1,874 88	2,520 81	1,755 97
1890 . .	18,151	88,971	1,808 70	2,610 54	1,451 68

These books, constantly in circulation, need to be continually renewed, as they soon become, in careless hands, unfit for use. Though many reminders are given to those who use them most, still neatness and care in the handling of books have to be constantly insisted upon, and in some cases the privileges of the library withheld until the lesson is learned.

The largest number given out on any day was 824. The smallest number, 157.

The largest weekly issue was 2,437, for the week ending February 28th. The smallest was 1,338, in August.

The library has grown largely in one direction, that of history, nearly 200 volumes having been added relating to the early history of the towns and cities of this Commonwealth; while the collection of the histories of the Massachusetts regiments is now considered quite complete.

The schools have been liberally supplied with catalogues, and teachers provided with extra cards for school use; and it is quite desirable that we should know what books are most needed in that direction, that duplicates may be provided if necessary. For this purpose we would particularly request lists of books from the teachers.

HARRIET A. ADAMS, *Librarian.*

FINANCIAL STATEMENT OF CITY TREASURER.

CR.

Balance from 1890	\$131 91
Appropriation	3,000 00
Dog licenses	2,596 68
Fines	358 06
Catalogues	24 12
Howe & Flint	1 50
Cambridge Gas Light Co.	2 84
	<hr/>
	\$6,115 11

DR.

Salaries	\$1,912 83
Books	2,713 07
Printing and stationery	284 90
Binding	235 90
Newspapers	10 00
Gas	176 76
Fuel	205 90
Water	26 10
Repairs	59 59
Furniture	163 75
Expressing	143 70
Incidentals	80 63
Branch office	100 00
	<hr/>
	\$6,115 13
Balance to 1892	1 98

\$6,115 11

REPORT
OF THE
COMMITTEE ON HIGHWAYS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 9, 1892.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, March 10, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON HIGHWAYS, January 1, 1892.

To the City Council:—

GENTLEMEN,—The committee on highways presents the following report for the year ending December 31, 1891:—

HIGHWAYS ACCOUNT.

	CREDIT.	
Appropriation		\$45,000 00
Receipts and credits:—		
For labor and materials furnished prior to January 1, 1891, the bills for which remained uncollected that day	\$623 01	
rent of dwellings at City Farm	\$104 00	
less repairs and water rates	35 15	
	68 85	
pasturage at City Farm		50 00
pasturage at Waltham gravel land	\$120 00	
less taxes on said land	119 00	
	1 00	
	742 86	
Value of materials on hand January 1, 1891		1,728 20
Value of tools and property (including bins and sheds at crusher, \$600.00, not included in statement of December 31, 1890) on hand January 1, 1891,		11,392 75
Net profit on tools, property, and materials		312 74
Unpaid bill for materials		67 50
		67 50
Total credit		\$59,244 05

DEBIT.

Expenditures:—

For laying out of Ames, Arthur, Dickinson, Elston, Gorham, Harrison, Moore, and Tennyson streets (advertising notices of hearings)	\$65 50
--	---------

Construction of Streets:—

Belmont street, Summer to High- land avenue	\$570 75	
Brastow avenue	276 80	
Chandler street, Park avenue to Broadway	183 00	
Gibbens street	239 25	
Gorham street	44 90	
Jaques street, Grant street west- erly 450 feet	456 35	
Madison street	898 50	
Montrose street	315 80	
Moore street, Holland street southwesterly 400 feet	102 20	
Norfolk street	717 60	
Norwood avenue	582 20	
Preston street	627 80	
Runey street	485 20	
Tyler street	446 60	
Wesley park	223 50	
William street	245 40	
	<hr/>	6,415 85
street crossings		2,563 34
openings for new streets		174 54
street signs erected		22 47

Paving of gutters in connection with
setting of edgestones:—

Aldrich street, east side, L. R. R. to Pearl street, and west side, Gil- man to Pearl	\$393 70	
	<hr/>	
<i>Amounts carried forward</i>	\$393 70	<hr/> \$9,241 70

<i>Amounts brought forward</i>	\$393 70	\$9,241 70
Belmont street, west side, Summer to land of Prindle	218 60	
Broadway, north side, Cross to Winthrop avenue	239 15	
Central square, at J. A. Talpey's	13 80	
Central street, west side, Gibbens to Cambria	40 80	
Central street, west side, at Hotel Carnarvon	29 00	
Chandler street, west side, Park avenue to Broadway	569 75	
Chauncey avenue, west side, from Jaques street northeasterly 350 feet	86 40	
Cherry street, at John Coon's	16 75	
Gibbens street, both sides, entire length	375 00	
Greene street, at H. W. P. Colson's,	46 85	
Hillside park, at S. Blaikie's	37 10	
Holland street, east side, Wallace to Irving	73 55	
Holland street, west side, Arlington Branch R. R. to Broadway	956 40	
Irving street, east side, Holland to Broadway	406 85	
Medford street, at North Packing and Provision Co.'s	286 60	
Medford street, west side, School to Lowell R. R. bridge	265 00	
Montrose street, southwest side, entire length	310 00	
Norfolk street, both sides, entire length	305 95	
Pearl street, at J. A. Litchfield's	22 85	
Poplar street, at James Gavin's	20 65	
<i>Amounts carried forward</i>	<u>\$4,714 75</u>	<u>\$9,241 70</u>

sented in the following table, under the heads of the months when the complaints were made :—

NUISANCES ABATED IN THE YEAR 1891.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cellar damp	4	-	2	-	-	2	2	6	1	1	1	1	20
Cesspool offensive	1	-	-	1	3	3	-	1	-	-	1	-	10
Cesspool overflowing	1	-	-	-	3	2	1	1	-	-	-	-	8
Connections of drainage pipes defective	3	1	2	3	1	2	5	2	1	2	4	1	27
Drainage defective	3	-	1	-	3	-	-	2	4	-	1	-	14
Drainage emptying into cellar	-	-	1	-	2	-	1	1	-	2	-	1	8
Drainage emptying on surface	2	-	1	-	3	-	-	-	-	2	-	-	8
Drainage not ventilated	3	-	-	-	-	-	2	-	7	-	-	-	11
Drain-pipe defective	2	-	1	1	-	1	-	1	5	-	-	2	13
Drying straw on sidewalk	-	-	-	1	-	-	-	-	-	-	-	-	1
Hennery offensive	-	-	-	-	-	1	-	1	2	-	-	-	4
Hens kept in cellar	1	-	-	-	-	-	-	-	1	-	1	-	3
Manure exposed and offensive	2	-	1	6	-	4	3	2	2	1	-	-	21
Offal on land	-	-	3	2	2	-	-	1	-	-	-	-	8
Offensive odor in and about dwellings	2	-	1	2	2	4	5	5	6	-	-	1	28
Opening in drain-pipe in cellar	-	-	-	-	-	-	1	-	1	-	1	-	3
Pigs kept without license	-	-	1	1	2	1	1	2	-	2	-	-	10
Premises filthy	-	-	-	1	-	1	-	-	-	-	-	-	2
Premises untidy	-	-	2	4	-	2	1	-	-	-	-	-	9
Premises undrained	1	-	-	-	-	-	-	-	1	1	-	-	3
Privy-vault defective	2	-	6	1	2	2	3	4	2	2	-	-	24
Privy-vault full	4	4	12	15	6	16	7	22	6	4	2	-	98
Privy-vault offensive	3	4	12	15	11	16	11	26	6	6	3	-	113
Removal of bodies of animals burned at fires	-	-	-	-	-	-	-	-	-	2	1	-	3
Rubbish in cellar	3	-	-	-	-	1	-	2	-	-	1	-	7
Sewer-gas in house	2	1	-	-	-	1	-	-	-	-	3	1	8
Slops thrown on surface	1	-	-	-	-	-	-	-	-	-	-	-	1
Stable infected with glanders	-	-	-	-	-	-	-	-	2	-	1	1	4
Stable and stable premises filthy and offensive	1	-	-	-	-	-	-	-	-	-	1	-	2
Stagnant water in house cellar	-	-	-	1	-	-	-	-	-	-	-	-	1
Stagnant water on surface	3	-	-	3	2	3	2	-	1	1	-	-	15
Waste-pipe defective	2	-	1	-	-	3	1	-	-	-	1	1	9
Waste-pipe not trapped	4	-	1	3	1	5	1	2	-	-	-	-	17
Water-closet defective	3	-	4	2	-	-	1	4	8	2	4	2	30
Water-closet insufficiently supplied with water	1	-	1	2	-	-	5	-	6	-	2	-	17
Water-closet offensive	2	-	2	-	-	-	1	1	2	-	3	-	11
Total	55	10	55	64	43	70	54	86	64	28	31	11	571

Number of nuisances abated	571
“ “ referred to board of 1892	116
“ “ complained of	687
“ complaints (many covering more than one nuisance)	264
“ tenements ordered vacated	1
“ notices mailed	202
“ “ served by constables	3

Probably as many nuisances as the number mentioned in the preceding table have been abated on verbal notice from the agent, without any action of the board; and of such no record has been made.

GLANDERS.—As may be seen by the foregoing table [stables infected with glanders], several cases of glanders have occurred during the year. When this disease is encountered the promptest action is necessary, and that we may have opportunity to take such action, we ask that owners of horses notify the board or its agent immediately on the appearance of this disease.

SEWER OUTLET, MYSTIC AVENUE.—A complaint, signed by a large number of the residents of Winter Hill, was presented to us concerning the bad odors from the sewer outlet at Mystic avenue, near the Broadway Park. This sewer drains a large territory, and empties, on the northeasterly side of Mystic avenue, into an open ditch, which extends across the marshes to a culvert under Middlesex avenue, and thence to the Mystic River. A tide-gate at its lower end prevents the contents of this ditch from discharging during about six hours in every twenty-four; and this, with the deposits on the flats, causes a nuisance which demands early attention.

BAD ODORS AT EAST SOMERVILLE.—The following reports, which were presented to the Board of Aldermen February 24, 1892, are self-explanatory:—

OFFICE OF BOARD OF HEALTH, CITY HALL, }
SOMERVILLE, Mass., February 24, 1892. }

To the Honorable Mayor and Board of Aldermen of the City of Somerville:—

GENTLEMEN,—In August, 1890, an order was passed by the Board of Aldermen requesting the Board of Health to investigate the

<i>Amount brought forward</i>		\$43,494 39
setting trees		127 80
setting stone bounds		26 00
repairing fence at Broadway bridge over Alewife brook		20 29
repairing Boston-avenue bridge		28 78
building fence around dwellings at City Farm		171 81
building retaining wall for sidewalk, Washington street, south side, between Joy street and L. R. R. bridge		310 99
setting city scales, Union square		62 25
one-half cost of maintenance of Middlesex-avenue bridge, the other half being paid by the town of Medford		536 40
tax on Wakefield gravel land		29 40
tax on Winchester gravel land		10 78
gravel land, North street, price	\$3,900 00	
interest at 5% from Sept. 6, 1890, date of purchase, to April 15, 1891, date of payment	118 63	
	<hr/>	\$4,018 63
less credit from gravel land, North street account	4,000 00	
	<hr/>	18 63
damages to estates by changing grades of streets		325 00
superintendent's salary		1,500 00
board of superintendent's horses		417 17
superintendent's telephone		34 30
superintendent's office, new, built at entrance to city stable yard		160 88
books, stationery, and printing		7 75
sundry small expenses		46 22
private work, the bills for which remain uncol- lected		366 76
Value of materials on hand this day		423 75
	<hr/>	
<i>Amount carried forward</i>		\$48,119 35

<i>Amount brought forward</i>		\$48,119 35
Value of tools and personal property on hand this day:—		
horses	\$3,125 00	
carts and implements used with horses	2,266 50	
harnesses and horse clothing	320 00	
stable utensils and property	112 80	
tools	378 10	
stone crusher, engine, and fittings, with bins and sheds	1,538 25	
steam road roller	3,553 00	
	<hr/>	11,293 65
Total debit		\$59,413 00
		<hr/>
Excess of expenditures		<u>\$168 95</u>

Labor and materials have also been furnished and property not valuable to the department sold, for which payment has been received by the city treasurer or credit received from other accounts, as follows:—

Private parties, constructing driveways and sidewalks, sale of old horses and other property	\$2,880 88
Fire Department account, constructing driveway, Somerville avenue, in rear of house of Hose Co. No. 3,	16 20
Sewers account, bricks	11 25
Sidewalks account, materials and use of horses	1,634 73
	<hr/>
Total	<u>\$4,543 06</u>

The profit and loss account on city teams, tools, property, and materials is as follows :—

CREDIT.	
Gravel	\$588 02
Sand	526 95
Edgestones and paving stock	237 26
Total	\$1,352 23
DEBIT.	
Steam road roller (depreciation)	\$11 25
Repairs of steam road roller	222 10
Tools, etc. (depreciation)	170 40
Repairs of tools, etc.	160 18
Stone crusher and fittings, with bins and sheds (depreciation)	12 75
Holland-street ledge	176 12
Crushed stone (to which account is charged the repairs of crusher),	58 21
City teams	228 48
Total	\$1,039 49
Excess of charges over cost as stated on page 265	\$312 74

No charge has been made to the various jobs of work for the use of the steam road roller, except for the time of the engineer.

The charge for crushed stone used in the streets has been seventy-five cents for each one-horse load at the crusher; and for ballast used the charge has been ten cents for each one-horse load at the ledge.

For ledge stone to be crushed the charge has been forty-five cents for each one-horse load, delivered at the crusher.

Gravel has been charged at twenty-five cents for each one-horse load in the bank on North street or at the railroad dump in Dane street, and sand has been charged at the same price.

No charge has been made to gravel account for any part of the cost of the North-street gravel land recently purchased, or for interest on the cost.

No gravel was brought from the Waltham land last year, and none now remains at the railroad dump.

Number of loads of gravel taken from North-street land,	1,462
Number of loads of sand taken from North-street land,	1,667
Number of loads of stone for the crusher taken from North-street land	500
Number of loads of gravel taken from railroad dump, Dane street	3,096
Number of loads of stone for the crusher taken from railroad dump, Dane street	210
Number of loads of stone crushed	7,150
Number of loads of scrapings taken from the streets .	9,692

The charges to the city teams account are for:—

Horses (depreciation)	\$896 00
Carts and implements used with horses (depreciation),	571 20
Repairs of same	791 33
Harnesses and horse clothing (depreciation)	89 75
Repairs of same	293 48
Stable utensils and property (depreciation)	22 30
Stable expenses and repairs	973 45
Grain and feed	3,008 80
Hay and straw	1,346 44
Horseshoeing	543 01
Horse medicine and doctoring	218 72
	<hr/>
	\$8,754 48

The credits to the account amount to \$8,526.00, being \$1.40 per horse for each day he has worked, showing a loss on city teams of \$228.48, as stated on page 272.

No charge is made for the use of the superintendent of streets' horses, neither is the cost of their board included in the city teams account, but it is kept separately, as stated in the foregoing schedule of expenditures. All other expenses of his teams are, however, included in the city teams account.

Five horses have been bought during the year and two sold, making the present number twenty-six, including two for the use of the superintendent.

SIDEWALKS ACCOUNT.

CREDIT.

Appropriation	\$10,000 00	
Credit for advertising notices of hearings paid for in previous years	35 00	
	<hr/>	
Total credit		\$10,035 00

Expenditures :—

For 31 sidewalks, as per table C at the end of this report	\$20,070 11	
less assessments	10,035 11	
	<hr/>	
cost to city		<u>\$10,035 00</u>

GRAVEL LAND, NORTH STREET ACCOUNT.

CREDIT.

Appropriation	\$4,000 00
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DEBIT.

Expenditure :—

To reimburse highways account for amount paid for gravel land, North street	\$4,018 63	
less amount assumed by highways account	18 63	
	<hr/>	
balance (see page 270)		<u>\$4,000 00</u>

EDGESTONES, PAVING, AND CLEANING.

Lineal feet of edgestones set (including 1,247 feet reset), 18,964.5; square yards of brick paving laid (including 455 yards relaid), 13,478 square yards of stone paving laid, 6,229.5.

TABLES.

Tables are furnished herewith, giving lists of streets accepted, streets improved, sidewalks constructed for which one-half the cost was assessed, sidewalks constructed the bricks and edgestones for which were furnished by the abutters, driveways constructed at the abutters' expense, and crossings laid.

For the committee,

ALLEN F. CARPENTER, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

TABLE A.
STREETS ACCEPTED.

NAME.	FROM.	To.	LENGTH IN FEET.
Ames	Central Street	Bartlett Street	580
Arthur	Broadway	Bonair Street	438
Dickinson	Springfield Street . .	Beacon Street	770
Elston	Elm Street	Summer Street	396
Gorham	Holland Street	Howard Street	763
Harrison	Ivaloo Street	Mondamin Court	335
Moore	Holland Street	Mead Street	695
Tennyson	Medford Street	Forster Street	469
Thurston	Medford Street	Richdale Avenue	310

TABLE B.
STREETS IMPROVED.

STREET.	FROM.	To.	IMPROVEMENT.	FEET.
Beach	Somerville Avenue	Spring Street . .	Gravelled	801
Belmont	Summer Street . .	Highland Ave. . .	Graded and gravelled	940
Brastow Avenue	Lowell Street	Porter Street	Graded and gravelled	686
Broadway	Charlestown Line	Franklin Street . .	Re-surfaced	1,350
Cedar	Summer Street	Highland Ave. . .	Macadamized	660
Chandler	Park Avenue	Broadway	Graded and macadamized	1,232
Flint	Cross Street	Franklin Street . .	Macadamized	1,050
Gibbens	Central Street	Benton Avenue . .	Graded and gravelled	492
Gilman Square	Marshall Street	Lowell Railroad . .	Re-macadamized	259
Jaques	Grant Street	Northwesterly	Macadamized	400
Jenny Lind Ave.	Medford Street	Vernon Street	Graded and gravelled	910
Joy	Washington Street	Poplar Street	Gravelled	1,150
Madison	School Street	Sycamore Street	Graded and macadamized	891
Medford	Bartlett Street	Broadway	Re-graded and macadamized	1,400
Montrose	School Street	Sycamore Street	Graded and gravelled	886
Moore	Holland Street	Westerly	Graded and macadamized	450
Norfolk	Webster Avenue	Cambridge Line	Graded and macadamized	200
Norwood Avenue	Medford Street	Broadway	Graded and macadamized	350
Park	Somerville Avenue	Beacon Street	Re-surfaced	1,300
Pearl	Cross Street	Franklin Street	Re-surfaced	1,000
Preston	School Street	Summer Street	Graded and macadamized	800
Runev	Cross Street	Aldrich Street	Graded and gravelled	753
Rush	Flint Street	Pearl Street	Re-surfaced	320
School	Highland Avenue	Medford Street	Re-surfaced	900
School	Evergreen Avenue	Broadway	Macadamized	650
Somerville Ave.	Union Square	Park Street	Macadamized	2,900
Spring	Somerville Avenue	Beach Street	Gravelled	400
Tyler	Dane Street	Vine Street	Graded and macadamized	404
Washington	Beacon Street	Cambridge Line	Macadamized	220
Wesley Park	Bow Street	Northeasterly	Graded and gravelled	405
William	Elm Street	Chandler Street	Graded and macadamized	381
Total length	improved (in feet)	. . . . .	. . . . .	24,530

TABLE C.

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS AND LABOR WERE FURNISHED BY THE CITY, AND ONE-HALF OF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES.

STREET.	SIDE.	FROM.	To.	FEET OF EDGESTONES.	YARDS OF BRICK.	COST.
Adams	North W	Broadway	Medford Street . .	-	617	\$567 95
Aldrich	Both . .	Pearl Street	Gilman Street . . .	780	-	490 07
Belmont	North W	Summer Street . . .	Land of Prindle . .	393	-	514 22
Boston	Both . .	Walnut Street . . .	Prospect Hill Ave.	-	1,481	1,591 98
Broadway	North E	Winthrop Avenue . .	Cross Street	645	-	434 23
Central	North W	Gibbens Street . . .	Cambria Street . . .	190	-	136 45
Central	North W	Cambria Street . . .	Southwest'ly 100 ft.	115	-	79 45
Chandler	North W	Park Avenue	Near Broadway . . .	1,072	-	761 51
Chauncey Avenue	North W	Jaques Street	Land of McCarty . .	347	-	241 26
Gibbens	Both . .	Central Street . . .	Benton Avenue . . .	1,040	-	587 63
Grand View Ave.	Both . .	Walnut Street . . .	Vinal Avenue	-	746	705 35
Holland	West . .	Arlington Branch Railroad	Broadway	2,408	-	1,473 42
Holland	East . .	Wallace Street . . .	Irving Street	214	236	341 01
Irving	South E	Holland Street . . .	Broadway	1,211	808	1,524 20
Medford	South W	School Street	Lowell Railroad . .	635	572	852 94
Montrose	South W	School Street	Sycamore Street . . .	654	555	1,047 93
Norfolk	Both . .	Prospect Street . . .	Cambridge Line . . .	593	-	394 59
Pearl	South W	Cross Street	Aldrich Street . . .	-	683	639 86
Pearl	South W	Aldrich Street . . .	Walnut Street . . .	-	579	599 54
Pleasant Avenue .	North E	Walnut Street . . .	Vinal Avenue	-	367	364 10
Prospect	North W	Washington Street .	Somerville Avenue .	-	91	96 05
Runey	North E	Aldrich Street . . .	Cross Street	737	-	429 53
School	North W	Medford Street . . .	Evergreen Avenue . .	-	756	1,172 39
School	North W	Evergreen Avenue . .	Broadway	649	-	
Summer	Both . .	School Street	Near Greene Street .	1,241	-	812 17
Thurston	North W	Evergreen Avenue . .	Broadway	-	425	447 35
Tufts	South W	Washington Street .	Cross Street	937	641	1,182 13
Vinal Avenue . . .	South E	Summer Street . . .	Highland Avenue . .	-	1,017	991 95
Washington	South . .	Medford Street . . .	Lowell Railroad . . .	396	531	745 46
Wesley Park	Both . .	Bow Street	Northeasterly	659	-	446 53
Wheatland	North W	Broadway	Jaques Street	532	-	398 86
Total				15,448	10,379	\$20,070 11

TABLE D.

SIDEWALKS CONSTRUCTED WHERE THE EDGESTONES AND BRICKS WERE FURNISHED BY THE ABUTTERS.

FOR.	STREET.	FEET OF EDGESTONES.	YARDS OF BRICK.
Edward Ayers <i>et als.</i>	Howe Street	-	297
William P. Blanchard	Elm Street	-	76
Suther Blaikie	Hillside Park	134.6	-
Christopher C. Brady	Corner Summer and School Streets	113.2	-
Nathan C. Cary	Summer Street	149.8	267
Amanda A. Chandler	Aldrich Street	36.	-
Henry W. P. Colson	Greene Street	152.	100
John Coon	Cherry Street	77.	60
Robert Duddy	Heath Street	67.8	-
First M. E. Church	Wesley Park	193.8	133
Thomas Fortier <i>et als.</i>	Auburn Avenue	-	122
James Gavin	Poplar Street	77.2	40
W. Irving Heald	Chandler Street	50.5	-
Jason E. Herrick	Chandler Street	118.5	-
Mary J. Holt	Putnam Street	-	61
John Kelley	Highland Avenue	-	40
James A. Litchfield	Corner Pearl and Marshall Streets	104.	61
Charles May	Pleasant Avenue	-	37
Timothy L. Mayo	Highland Avenue	-	40
Hiram R. Mills	Aldrich Street	55.9	-
North Packing and Provision Co.	Medford Street	551.5	833
Charles E. Robertson	Highland Avenue	-	40
Christopher E. Rymes	Spring Street	-	102
Lucius Slade	Summer Street	47.8	-
John H. Stevens	Chandler Street	83.9	-
Jonathan Stone	Stone Avenue	95.5	70
Joseph P. Talpey	Central Square	39.4	55
Thomas W. Tuttle	Summer Street	89.2	61
Susan C. Wass	Aldrich Street	31.9	-
Totals		2,269.5	2,495

TABLE E.
DRIVEWAYS CONSTRUCTED (AT EXPENSE OF ABUTTERS).

FOR.	STREET.
Charles C. Bartlett	Quincy Street, No. 13
Daniel J. Buckley	Tufts Street, No. 17
Eva T. Christie	Linwood Street, Nos. 139 and 141
George H. Derby	Highland Avenue
Fire Department (Hose 3)	Somerville Avenue
William M. Hanson	Bonair Street
Kerr Chemical Co.	Somerville Avenue, No. 2
Frederick M. Kilmer	Adams Street
George H. Lomax	Somerville Avenue, No. 296
William S. Moore	Spring Street, No. 24
* North Packing and Provision Co. (2)	Medford Street
Abel L. Proctor	Spring Street, No. 54
Robert J. Rutherford	Columbus Avenue, No. 27
Charles F. Simes	Dartmouth Street, No. 53
Hiram L. Simpson	Concord Avenue, No. 26

* Labor furnished by city in connection with construction of sidewalk.

TABLE F.
CROSSINGS CONSTRUCTED.

- Across Boston street, in line with northerly side of High street.
- Bow street, across end of Wesley park.
- Across Broadway, in line with easterly side of Adams street.
- Across Broadway, from easterly side of Arthur street to street railway track.
- Across Broadway, in line with northwesterly side of Curtis street.
- Across Broadway, in line with easterly side of Dartmouth street.
- Central street, westerly side, across end of driveway leading to B. and L. R. R. depot south of R. R. bridge.
- Across Cross street, at northeasterly side of Runey street.
- Across Day street, in line with northeasterly side of Orchard street.
- Franklin street, across end of Franklin avenue.
- Gilman square, from Stickney building to Winter Hill depot, B. and L. R. R.

Across Medford street, in line with easterly side of Greenville street.

Across Medford street, at works of North Packing and Provision Company.

Across Oliver street, in line with northwesterly side of Glen street.

Across Orchard street, in line with northeasterly side of Dover street.

Across that part of Preston street which extends westerly from School street, in line with easterly side of that part of Preston street which extends southerly from Summer street.

Prospect street, across end of Newton street.

Across School street in line with southwestly side of Summer street.

Across Somerville avenue, southeast of and near the Fitchburg Railroad.

Across Thurston street, from Universalist Church at southerly corner of Evergreen avenue, diagonally to northerly corner of Evergreen avenue.

Across Tufts street, in line with northwesterly side of Glen street.

Across Walnut street, in line with northeasterly side of Aldersey street.

Walnut street, across end of Giles place.

Washington street, across end of Joy street.

Washington street, from westerly side of Joy street to street railway track.

Across Washington street, in line with westerly side of Tufts street.

Across Webster avenue, north of and near the Fitchburg Railroad.

REPORT
OF THE
COMMITTEE ON SEWERS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 10, 1892.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

Concurred in.

IN COMMON COUNCIL, February 11, 1892.
WILLIAM P. MITCHELL, *Clerk pro tem*.

CITY OF SOMERVILLE.

IN COMMITTEE ON SEWERS, January 1, 1892.

To the Board of Aldermen of Somerville: —

The committee on sewers presents the following final report for the year 1891: —

SEWERS ACCOUNT.

CREDIT.

Appropriation		\$10,000 00
Receipts and credits: —		
For catch-basin curbs in sidewalks, received credit from sidewalks account	\$51 79	
feè for drainage of Asylum build- ings into Fitchburg-street sewer, labor and materials furnished in 1890 the bills for which remained uncollected January 1, 1891	50 00	
unpaid bills of 1891	22 60	
	124 39	
Value of materials on hand January 1, 1891		39 15
Value of tools and property January 1, 1891		355 00
		589 34
Total credit		\$11,107 88

DEBIT.

Expenditures: —

For unpaid bills of 1889 and 1890 paid in 1891		\$456 28
thirty-one sewers, as per accompany- ing table	\$11,899 28	
less assessments	10,667 85	
cost to city	1,231 43	
<i>Amount carried forward</i>		\$1,687 71

<i>Amount brought forward</i>	\$1,687 71
rebuilding Spring-street sewer	370 83
forty-one catch-basins (average cost, \$73.42)	\$3,010 16
less two on Medford street paid for by North Packing & Provision Company	143 41
	<hr/>
	2,866 75
five-ninths cost of removing deposit from mouth of Bridge-street sewer	1,234 77
repairing sewers and drains	111 44
flushing sewers and filling catch-basins with water, cleaning sewers	398 07 759 91
examining sewers	64 73
digging to locate sewers	6 00
inspecting sewers built by abutters in Porter street, Morton street, Wyatt street, and Rogers avenue, inspection of house drains	27 00 338 75
soundings for ledge	93 25
repairs of catch-basins	335 65
removing catch-basins	6 37
changing lines and grades of catch-basins	228 10
cleaning catch-basins	2,259 18
clearing mouths of catch-basins	171 12
repairing manholes	27 79
changing lines and grades of manholes	99 82
cleaning manholes	119 44
repairs of tools and property	14 30
arranging tools and property	9 76
sundry small expenses	13 75
depreciation in value of tools, property, and mate- rials	244 05
Value of materials on hand December 31, 1891	256 04
Value of tools and property on hand December 31, 1891 (including purchases during the year of \$192.26)	589 25
	<hr/>
Total debit	\$12,333 83
	<hr/>
Deficiency	\$1,225 95
	<hr/>

Labor and materials have also been furnished, and credit has been received for the same, as follows:—

To private parties, to the amount of	\$262 05
One-half cost of setting stone bounds between Boston and Somerville, received credit from Miscellaneous account	39 44
	<hr/> \$301 49

Bills for labor and materials furnished prior to January 1, 1891, remain uncollected to the amount of \$63.29.

Appended hereto is a table of sewers built during the year.

In pursuance of orders passed December 23d and 30th, a contract has been made with Willard B. Bryne for the construction of an 8-inch Akron pipe sewer, with one chimney, in Olive avenue, from the sewer in Linden avenue southeasterly about one hundred and thirty feet, at the following prices, viz.: For laying sewer, forty cents per lineal foot, and for the chimney, five dollars; the pipe to be furnished by the city. No money has as yet been expended by the city under this contract.

The following provision of ordinance became operative May 2:—

“Every sewer or drain, laid in any land, or street, or way, public or private, opened, or proposed to be opened, for public travel and accommodation, for the purpose of draining more than one estate, shall be deemed to be a common sewer, and no such common sewer shall be laid or connected with any existing common sewer, except by the city. No person shall cut into, interfere with, or obstruct a main drain or common sewer, or shall enter, or attempt to enter, a private or other drain or sewer therein, or into any private drain connecting with any main drain or common sewer, except in accordance with a permit in writing from the city engineer.”

Before its adoption many sewers were laid in private streets by the land-owners, under the supervision of the city engineer, but it was oftentimes exceedingly difficult, and even impossible, practically, to have all proper requirements complied with. The sewers, too, after their completion, were not the property of the city, and the city, therefore, was not charged with their maintenance. Complica-

tions were also liable to arise in assessing for common sewers subsequently laid in front of lands provided with these private sewers; and altogether the provisions of the ordinance seemed highly necessary. Only a few months have passed since the ordinance took effect, but its workings during that short period have been satisfactory to this committee.

For the committee,

ALBERT W. EDMANDS, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT OF COMMITTEE ON SEWERS.

SEWERS BUILT IN 1891.

STREET.	FROM.	To.	Length in Feet.	Total Cost.	Assessment.	Cost to City.
Alpine	Cedar St.	Easterly	653.2	\$1,120 54	\$1,119 79	\$0 75
Atherton	Central St.	Near Beach St.	237.8	330 44	328 37	2 07
Ayer Ave.	Morrison Ave.	Near Frederick Ave.	604.6	680 86	670 65	10 21
Belmont	Highland Ave.	Southwesterly	565.1	652 09	651 22	87
Benton Ave.	Hudson St.	Near Highland Ave.	205.0	181 33	178 56	2 77
Broadway	Adams St.	Northwesterly	339.3	332 84	326 63	6 21
Burnside Ave.	Elm St.	Near Summer St.	678.8	1,013 37	960 37	53 00
Calvin	Washington St.	Near Dimick St.	466.2	513 77	501 14	12 63
Carver	Porter St.	Westerly	170.7	133 50	132 61	89
Concord Ave.	Dimick St.	Near Beacon St.	206.8	248 56	225 45	23 11
Conwell	Highland Ave.	Francis St.	300.2	409 35	408 17	1 18
Francis	Conwell St.	Near Porter St.	110.2	93 22	93 15	07
Cook	South Wyatt St.	Westerly	164.0	161 40	161 06	34
Cypress	Central St.	Near Beach St.	207.1	323 25	320 43	2 82
Elston	Elm St.	Near Summer St.	350.8	175 87	175 49	38
Lawrence	Richardson St.	Cutler St.	239.6	134 63	133 69	94
Miner	Vernon St.	Northeasterly	167.3	120 73	120 55	18
Nashua	Richardson St.	Southwesterly	162.0	194 32	192 52	1 80
Newbury	End of old sewer	Near Cambridge Line	241.9	271 61	270 53	1 08
Pleasant Ave.	End of old sewer	Vinal Ave.	90.0	1,046 12	673 85	372 27
Vinal Ave.	Pleasant Ave.	Grand View Ave.	206.0	227 7	232 25	3 17
Private lands	Belmont St.	Lowell St.	227.7	235 42	232 25	3 17
Lowell	Private lands	Northeasterly	251.7	99 03	98 60	43
Private lands	Pearl St.	Raney Pl.	239.2	289 08	287 50	1 58
Raney Pl.	Randolph Pl.	Near Raney St.	167.3	757 67	743 65	14 02
Roberts	Lawrence St.	Northwesterly	251.1			
Sargent Ave.	Sherman Pl.	Mills St.	673.0			
Stone Ave.	Somerville Ave.	Near Columbus Ave.				

SEWERS BUILT IN 1891. — *Continued.*

STREET.	FROM.	To.	Length in Feet.	Total Cost.	Assessment.	Cost to City.
Taylor	Sydney St.	Near Mystic Ave.	198.6	\$201 10	\$200 53	\$0 57
Waldo	Hudson St.	Near Highland Ave.	201.8	157 20	151 79	5 41
West	Hawthorne St.	Northeasterly	117.5	67 07	66 96	11
Whipple	Highland Ave.	Howard St.	191.0	} 250 86	117 35	133 51
Howard	Whipple St.	Near Willow Ave.	177.2			
Wigglesworth	Pearl St.	Northeasterly	303.0	424 09	256 92	167 17
William	Elm St.	Near Chandler St.	389.5	1,060 55	649 66	410 89
Windom	Elm St.	Near Summer St.	232.8	219 41	218 41	1 00
				\$11,899 28	\$10,667 85	\$1,231 43
REBUILT.						
Spring	Somerville Ave.	Pitman St.	222.8	\$370 83	. . . . .	\$370 83
Total . . . . .	. . . . .	. . . . .	. . . . .	\$12,270 11	. . . . .	\$1,602 26

REPORT
OF THE
CITY ENGINEER.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 9, 1892.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, March 10, 1892.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF CITY ENGINEER, SOMERVILLE, Feb. 22, 1892.

To His Honor the Mayor and the City Council:—

In compliance with the City Ordinance, Chapter 9, Section 9, the following report of the city engineer is respectfully submitted:—

CITY ENGINEER'S DEPARTMENT.

The number of persons permanently employed in this department during the year 1891 was six. The expenses of the department have been as follows:—

Salary of city engineer, including care and maintenance of horse and carriage	\$2,300 00
Salary of assistants	3,247 46
Instruments and supplies	205 11
Car fares	37 60
	\$5,790 17

The items of expenditure for salaries of assistants are as follows:—

Giving lines and grades for edgestones and brick sidewalks, examining titles of petitioners, and computing assessments	\$529 54
Giving lines and grades for defining street lines, for grading and macadamizing streets, and revising acceptance plans, and examining titles of petitioners	509 28
Making surveys, giving lines and grades for public sewers, examining titles of petitioners, computing	
<i>Amount carried forward</i>	\$1,038 82

<i>Amount brought forward</i>	\$1,038 82
assessments and making assessment plans; for inspection of and the location and recording private drains; giving lines and grades for building catch-basins	1,044 24
Giving lines and grades for laying water pipe, making surveys and plans, and for locating and recording locations of house services	96 68
City survey	319 45
Surveys and plans for department of public grounds,	128 13
Making plans for street numbering	209 79
Indexing note-books and plans, and keeping office records and calculations	117 33
Copying plans at Registry of Deeds and work done for the assessors' department	79 55
Miscellaneous, including work done for department of public buildings	213 47
	\$3,247 46

CITY SURVEY.

No systematic work has been done on the city survey. Only such surveys have been made as have been required in making assessment plans for sewers built during the year.

Only about one-third of the area of the city has been completely surveyed, and in that portion of the city northwest of Cedar street nothing has been done, except the establishment of street lines on Somerville avenue and Elm street, Summer street, Highland avenue, and Broadway. Sectional maps have been in existence for several years, but have not been completed, and no progress has been made on them for several years. Many sectional surveys and traverses have been made, but have never been connected, and errors prevent the combination of these surveys. The only reason which can be given for the lack of progress is that the office force has not been sufficiently large to undertake any work outside of the routine work on streets and sewers.

This lack of an accurate survey of the city is a great hindrance to the assessors' department. It is often impossible to locate new transfers from the description given in deeds, especially where

small parcels of land are sold from large tracts of unoccupied land, of which there is no survey or plan in existence. On many streets where the lines are not established large areas of unoccupied lands are now about to be divided into house lots, and the street lines can better be established now, before the land is occupied, than at a later period.

The need of some better methods than now exist has been brought to my attention by the assessors' department several times during the past year, and any progress which may be made will be heartily approved by them.

In no way can this difficulty be better overcome, and the errors in former surveys be eliminated, than by a thorough and systematic revision of existing notes and surveys; and, preliminary to this, by an accurate triangulation of the city, by which the position of many points on the highest elevations of buildings or land can be accurately determined; these points to be used in smaller surveys and in revising and correcting existing work. By this method the position of every street intersection and the bounds of every estate can be accurately and definitely described.

I would recommend that a special appropriation be made for the purpose of carrying out these suggestions as outlined above.

SEWER DEPARTMENT.

ITEMS OF EXPENDITURE.

Assessments for thirty-one sewers	\$10,667 85	
Cost of same to the city	1,231 43	
	<hr/>	
Total cost of sewers built in 1891		\$11,899 28
Forty-one catch-basins	\$3,010 16	
Less two paid for by private parties	143 41	
	<hr/>	2,866 75
Inspection of house drains		338 75
Maintenance		6,913 41
Work done for private parties		301 49
		<hr/>
		\$22,319 68

Nine thousand nine hundred eighty-seven and nine-tenths feet, or one and eighty-nine one-hundredths miles, of public sewers were built during the year 1891.

In addition to the work done as above stated, the sewer in Spring street, from Somerville avenue to Pitman street, built in 1868, was rebuilt at a lower grade, at a cost of \$370.83. No assessment was made for this work.

The length of public sewers built by the city to January 1, 1892, is forty-seven and thirty-six one-hundredths miles. The total cost of the system to date is about \$803,000.

Plans have been made showing the location and profile of all sewers built during the year, and a record has been made on these plans of the location of inlets, the area and frontage of property assessed, and the amount of each assessment as made by the Board of Aldermen. When it has been necessary to take land for the purpose of obtaining a right of way for sewer purposes, plans have been made showing the area of land taken and the owners' names.

PRIVATE DRAINS.

Five hundred and fourteen permits for laying private drains and thirty-four for repairs were issued in 1891. Locations of new drains and changes made in old work were properly located and recorded. The cost of inspection of private drains was \$338.75.

CATCH-BASINS.

Forty-one (41) new catch-basins were built, at a total cost of \$3,010.16, or an average cost of \$73.42.

Twenty-seven catch-basins have been repaired, at a total cost of \$335.65, and an average cost of \$12.43.

Of twenty-four catch-basins, the grades and lines have been changed, at a total cost of \$228.10, and an average cost of \$9.50.

The cost of cleaning catch-basins was \$2,259.18.

The cost of cleaning snow and ice from catch-basin openings was \$171.12.

CLEANING AND REPAIRING SEWERS.

A thorough examination of all sewers upon which manholes are located has been made. Deposits were found in the Somerville-

avenue sewer from the East Cambridge line to Medford street, and the Beacon and Elm street sewer from Kent street to Somerville avenue. Otherwise the public sewers have very little or no deposit in them.

The cost of cleaning sewers was as follows:—

Cleaning, not including flushing	\$617 04
Flushing	398 07
Cleaning outlet ditches at Winthrop avenue, Austin, North Union, and Waverly streets	142 87

The cost of cleaning sewers and catch-basins might be considerably reduced if more attention was given to cleaning gutters, especially at the foot of steep grades. After heavy rains, the material washed from roadways and sidewalks, and rubbish thrown into the streets by abutters, is found at the foot of steep grades; and, if not taken up, is carried by the next rain into the catch-basins and the sewers. This material can be removed from the gutters at a small expense to the highway department, and at a small fraction of the cost of removing the same amount of material from the catch-basins and sewers. I would recommend that some means be taken by the highway department to remove this material as fast as it accumulates.

The cost of changing the grade and line of thirty-one manholes was \$99.82, an average cost of \$3.22.

Five manholes were repaired, at a cost of \$27.79. The cost of cleaning manhole dirt catchers was \$119.44.

BRIDGE-STREET OUTLET.

The cost of dredging done this year was \$2,222.58. Five-ninths of this amount, \$1,234.77, was paid by the City of Somerville.

The items of expenditure are as follows:—

3,590 cubic yards material dredged at \$0.53	\$1,902 70
Advertising, labor, flushing, boots, oil clothing	319 88
	<hr/>
	\$2,222 58

REVISION OF SEWER ORDINANCE AND THE CONSTRUCTION OF PRIVATE SEWERS.

Previous to May 2, 1892, the city had practically no control of the laying out or the construction of private sewers, and the practice had been to allow owners of large tracts of land to build sewers of such sizes and at such depths and grades as these owners were willing to pay for. The objections to this practice were fully set forth, and an amendment to the sewer ordinance was recommended, in the report of the city engineer for the year 1890, to which you are respectfully referred for further information.

On May 2, 1892, the following amendment to the sewer ordinance became operative :—

Every sewer or drain laid in any land, or street, or way, public or private, opened, or proposed to be opened, for public travel and accommodation, for the purpose of draining more than one estate, shall be deemed to be a common sewer, and no such common sewer shall be laid or connected with any existing common sewer, except by the city. No person shall cut into, interfere with, or obstruct a main drain or common sewer, or shall enter, or attempt to enter, a private or other drain or sewer therein, or into any private drain connecting with any main drain or common sewer, except in accordance with a permit in writing from the city engineer.

The ordinance as amended has given the city entire control of all sewers built since its adoption, and there has been no opposition to its enforcement. Under the new ordinance owners of property desiring a sewer petition the Board of Aldermen, and with the petition file a release of the right to lay, make, and forever maintain a main drain or common sewer, the right to use the street or way in which said sewer is laid, for the purpose of making and maintaining a main drain or common sewer, and agree to make no claim for damages for, or on account of, or in any way growing out of, the laying, making, or maintaining of said drain or sewer. The assessment is then levied in the same manner as for sewers built in public streets. Previous to the acceptance of this amendment three sewers were built in 1891 by private parties under city inspection.

OTHER AMENDMENTS TO SEWER ORDINANCE.

Further amendments have been made which provide that no work of construction, such as the laying of pipes for gas, water, or other purposes, shall be so executed as to in any way interfere with the course, capacity, or construction of any common sewer; and when such work exists as to in any way interfere with the construction of sewers, the department, corporation, or person maintaining the same shall at once remove, change, or alter said pipe or other works in such manner as the city engineer shall direct.

Other amendments provide for the use of plugs or clappers to prevent the reflux of drainage matter, storm or tide waters; that no exhaust from steam engines and no blow-off from steam boilers shall be connected with any common sewer or private drain; that no person shall place or deposit in any catch-basin any solid or liquid, or any filthy substance of any kind. Any violation of these ordinances is punishable by a fine of not more than twenty dollars.

INSPECTION OF PLUMBING.

By City Ordinance 19, passed during the last year, the inspection of plumbing and house drains is placed under the charge of the inspector of buildings. The necessity for some systematic inspection of plumbing was referred to in the last report of the city engineer; and later the need of some more effective methods of plumbing inspection than had been in use in previous years was brought to the attention of the committee on the revision of the ordinance relating to building construction. This committee reported an ordinance under which a plumber is required to register his name and place of business, and file a notice of work to be performed in the office of the inspector of buildings.

Other sections of the ordinance provide for proper connection with the sewer, inspection, testing, material of drain pipes, traps, ventilators, rain-water leaders, pipes, joints and connections, waste and air pipes, traps, etc., water-closets, privy vaults; and that no steam exhaust shall be connected with any public sewer.

THE PROPOSED SEWER IN THE BOSTON AND LOWELL RAILROAD LOCATION.

The need of a sewer in the Boston and Lowell Railroad location

is more urgent than ever. The owners of large tracts of land in the west part of the city are waiting for sewers to be constructed to drain their land; for until some system of sewage disposal is provided, their land cannot be placed upon the market. In other locations the proposed sewer will soon be needed to provide for the disposal of storm water, which has even now become troublesome. In the report of the city engineer for the years 1889 and 1890 this matter has been thoroughly discussed, and your attention is respectfully directed to these reports.

ELM-STREET SEWER.

In my last annual report it was recommended that the Elm-street sewer be connected with the Beacon and Elm streets sewer at Mossland street, the connection to be used only as a storm overflow. This work was not done last year, as was recommended.

EXTENSION OF THE WILLOW-AVENUE SEWER TO ELM STREET.

The attention of the City Council is directed to the necessity for the extension of this sewer, as stated in the annual report of the city engineer for the year 1890.

EXTENSION OF THE WINTHROP-AVENUE SEWER.

In the reports of the city engineer for the years 1888, 1889 and 1890, it was recommended that the Winthrop-avenue sewer be extended from Mystic avenue to Middlesex avenue.

That this work should be done becomes more apparent every year. The purchase of a large area by the Boston and Maine Railroad in this vicinity will soon make such changes in the use of the land as will require that this work be done. If the work recommended is delayed until after these changes are made, the cost of the work will be much larger than if done at once.

EXTENSION OF SEWERAGE SYSTEM IN WEST SOMERVILLE.

That portion of West Somerville bounded by Curtis street, the Medford line, College avenue, Broadway, Cedar street, Frederick, Willow, and Kidder avenues, Summit and Chandler streets, Broad-

way, Simpson avenue, and Holland street, comprising an area of about two hundred and three acres, has no system of sewers. A large portion of this area has never been occupied, and until within a few years there has been no demand for land for building purposes. Within three years a considerable amount of building has been done, and there is now a need of an extensive system of sewers to meet the demand for building lots.

To provide for the area above mentioned three systems must be built. One by way of Elm street, Broadway, and Simpson avenue to the sewer in Holland street; a second, by way of Willow and Frederick avenues and Cedar street to a proposed sewer in the Boston and Lowell Railroad; the third, by way of Broadway to the Boston and Lowell Railroad.

The first system comprises an area of about one hundred and twenty-nine acres; of this area only about forty-five acres need be provided for at once; the eighty-four acres remaining is comprised within the Tufts College grounds.

In this area test pits and borings, which have been made to determine the nature and depth of the underlying rock, show that over about twenty-three acres the rock rises nearly to the surface, and the cost of sewers in this area will exceed the amount which can be raised by assessment, unless a higher rate of assessment is made than has been the custom. The cost of this system can be more equitably assessed if the entire system within this area be constructed under one order. I recommend that this system of forty-five acres be built the present season and assessed as recommended.

The second comprises an area of about forty-nine acres, and includes a part of the Powder House farm and the Ayer estate.

In the second area no borings have been made, but it is probable that the amount of rock excavation would be small. This sewer would drain the Powder House farm and the Ayer estate alone, and would eventually connect with the sewer in the Boston and Lowell Railroad location. A temporary outlet into the sewer in Cedar street could be provided until the Lowell Railroad sewer be built.

I have been informed that the owners of estates benefited are desirous that this sewer should be built, and I recommend that this work be done the coming season.

The third comprises about twenty-five acres, and includes the remainder of the estates last above mentioned.

The third system cannot be constructed until the proposed sewer in the Boston and Lowell Railroad is constructed.

NORTH METROPOLITAN SEWERAGE SYSTEM.

Surveys for the final location and construction of the North Metropolitan sewer were begun in 1889, and in May, 1890, construction was begun.

The work of construction has been continued in various locations from Deer Island to the southerly end of Section 24, which is about 500 feet northerly from the pile structure on Malden bridge.

The total length of all sections completed and under contract to the point last above mentioned is 43,500 lineal feet, or eight and twenty-four one-hundredths miles. The total length completed to January 1, 1892, was 28,703 lineal feet, or five and forty-four one-hundredths miles. The sections yet remaining uncompleted between Deer Island and Malden bridge comprise the various river crossings and the outfall at Deer Island.

APPORTIONMENT OF COST.

The proportions in which the several cities and towns comprised within the north and south Metropolitan sewerage districts shall pay money to meet the interest and sinking fund requirements, and the annual charge for maintenance and operation for five years ending April 5, 1895, has been apportioned by a commission appointed by the Supreme Court, under Section 13, Chapter 439, of the Acts of the year 1889.

The commissioners—Ebenezer R. Hoar, Arthur C. Endicott, John E. Sanford—made a report November 7, 1891. By this report it appears that Somerville will be required to pay, to meet the interest and sinking fund requirements, 10.91 per cent.; and the maintenance and operation account, 15.14 per cent.

No charge for maintenance will be made until 1893.

The estimated cost of the North Metropolitan system is \$4,159,453.00. The estimated annual cost of maintenance and operation when this system is completed is \$89,000.00.

The basis of apportionment, on which the percentages for interest and sinking fund requirements were estimated, is given by the commissioners as follows: "To the total values of real

and personal estate, as assessed by the local boards, have been added the values, as furnished us by the tax commissioners, of all bank and corporation stocks, and ships and vessels, the taxes on which are paid or accrue under state laws to the several cities and towns." For the "payments on account of the cost of maintenance and operation" the basis of apportionment was the "respective populations" of the several cities and towns in the district. "The valuation of May, 1890, and the national census of that year have been used for the purposes aforesaid."

A table showing the location, size, cost per foot, assessment, and cost to the city of sewers built in 1891 may be found in Appendix A.

HIGHWAYS.

The work done by the highway department has been under the charge of the superintendent, Mr. Thomas H. Eames, and has been carried on in a thorough, efficient, and economical manner.

The appropriation for the highways for 1890 was	\$45,000 00
Add for collections for work done in former years, income from city land and dwellings, materials on hand, tools and property, profit on tools and property and materials, and unpaid bills for materials	2,526 65
Excess of expenditure over resources	168 95
	\$47,695 60

The items of expenditure are as follows:—

Construction of streets	\$6,915 39
Repairing streets	15,755 88
Repairing and constructing streets in connection with laying horse railroad tracks	1,850 09
Washington street retaining wall, Joy street to the Bos- ton and Lowell R. R. bridge	310 99
Paving gutters	7,641 41
Street crossings	2,563 34
Cleaning streets	5,421 25
<i>Amount carried forward</i>	\$4,5848 88

<i>Amount brought forward</i>	\$40,458 35
Cost of brick sidewalk and edgestone laid for separate estates	1,181 08
Repairing sidewalks	401 85
Removing snow and ice from sidewalks	2,001 13
Maintenance of bridges	585 47
Salary of superintendent	1,500 00
Repairs at stables	160 88
Planting trees	127 80
Board of superintendent's horse	417 17
Building fence at City Farm	197 81
Private work not paid for	366 76
Miscellaneous	297 30
	<hr/>
	\$47,695 60

EDGESTONE AND BRICK SIDEWALKS.

The appropriation for edgestone and brick sidewalks was	\$10,000 00
Credit for advertising paid for in previous years	35 00
	<hr/>
	\$10,035 00
Thirty-one sidewalks were laid during 1891, at a cost of	\$20,070 11
Less assessments	10,035 11
	<hr/>
Cost to the city	\$10,035 00

The work done is itemized as follows:—

Fifteen thousand four hundred forty-eight lineal feet of edgestone.

Ten thousand three hundred seventy-nine square yards brick sidewalk.

In Appendix B will be found a table showing the location and cost of edgestone, brick sidewalks, and paved gutters, and of roadways constructed in streets where edgestone and sidewalks were laid in 1891.

The average cost of repairing, grading, and macadamizing per lineal foot of edgestone laid, as computed by this table, is about

twenty-three per cent. more than the amount of assessment for sidewalks constructed ; and for gravel roads about thirty per cent. of this amount.

In Appendix C will be found a table showing the location and cost of all street improvements made during the year.

Except the work on edgestone and sidewalks, the force of the highway department has been employed on general repairs of streets, and the demands made by this class of work have been so large that very little attention has been given to the main thoroughfares ; and, except the light repairs made on Somerville avenue, nothing has been done, as was the case in 1890.

In consequence of this neglect, due principally to the fact that the appropriation for highways has been barely sufficient to make even the small repairs needed, these thoroughfares are in a bad condition and beyond repair. The entire surface of these streets should be broken up and removed, and a new surface of at least six inches of broken stone and gravel should be laid. I would recommend that Washington street from Boston line to Beacon street, Broadway from Boston line to Marshall street, Somerville avenue from Craigie street to North Cambridge line, Elm street from Somerville avenue to Beach street, Linwood street from Somerville avenue to Washington street, Webster avenue from the Fitchburg Railroad to the Cambridge line, and Summer street from Bow street to Central street be resurfaced in this manner, and that the appropriation for highways be sufficiently increased to cover the cost of this work.

MYSTIC AND MIDDLESEX AVENUES.

The condition of these avenues is even worse than in 1890. No repairs have been made since 1881, and they are now in a condition hardly creditable to the city. On Middlesex avenue, especially, the grade should be raised and the surface macadamized.

PAVING SOMERVILLE AVENUE.

The necessity for paving Somerville avenue was referred to in the report of the city engineer for the year 1890, and was brought to the attention of the City Council of 1891, but no progress was made. I would recommend that this work be no longer delayed, and that it be undertaken the coming season.

STREETS ACCEPTED.

In Appendix D will be found a table showing the location, length, and width of streets accepted in 1891. Plans for these streets as submitted by the abutters have been revised and corrected.

In Appendix E will be found a table showing the location and length of public and private streets.

STREETS NUMBERED.

In consequence of the large amount of work done in 1890, in the preparation of plans and numbering houses, but little work has been required on house numbering.

Previous to May 1st the numbering plans were revised, numbers on houses compared with the plans, errors in numbering corrected, and new houses numbered.

BRIDGES.

Bridges over Boston and Lowell Railroad.

CROSS, CENTRAL, AND CEDAR STREETS BRIDGES.

These bridges are substantial iron bridges of modern design, and are in excellent condition. The Cross-street bridge was built during the past year. It replaced a wooden bridge which had been condemned.

WALNUT-STREET BRIDGE.

This bridge is in the same condition as in 1890. The base of the south abutment appears to have moved towards the rails at least fifteen inches. Plans for an iron bridge are being prepared by the Boston and Maine Railroad, and it is probable that it will be erected in 1892.

MEDFORD-STREET BRIDGE.

This bridge appears to be in good condition.

SCHOOL-STREET BRIDGE.

The westerly end of the southerly abutment has moved towards the tracks, and should be rebuilt. The bridge appears to be in as good condition as in 1891.

SYCAMORE-STREET BRIDGE.

The bridge and abutments appear to be in good condition. The surface water now runs over the wings of the north abutment; some provision should be made for conducting the water to the catch-water drains on the railroad land.

BROADWAY BRIDGE.

This bridge is in as good condition as in 1891. Plans are being prepared by the Boston and Maine Railroad for an iron bridge, and it will probably be erected during the year 1892.

Bridges over the Fitchburg Railroad.

PROSPECT-STREET BRIDGE.

The northerly abutment has settled badly and has moved towards the tracks; it is badly cracked and should be rebuilt. The bridge is in good condition.

WASHINGTON AND BEACON STREETS BRIDGES.

These bridges are in good condition.

Miscellaneous Bridges.

BROADWAY BRIDGE OVER ALEWIFE BROOK.

The retaining walls need pointing, and the surface water should be collected and not be allowed to run through the walls.

BOSTON-AVENUE BRIDGE.

The fences are very badly decayed, and must be rebuilt the coming year. The southerly abutment should be pointed.

MIDDLESEX-AVENUE BRIDGE.

The covering plank on the easterly draw pier should be renewed, and the faces of the channel-way be replanked where it has fallen off. The cross bracing on the pier has been allowed to fall off, and should be replaced.

The easterly draw pier should be extended about fifty feet, to allow ample room for vessels to lie if obliged to wait for the draw to be opened.

The cost of maintenance and repairs made in 1891 was \$536.40, and was assumed in equal proportions by the city of Somerville and the town of Medford.

PUBLIC GROUNDS.

The appropriation for public grounds was expended entirely for maintenance.

The tool house and shelter house on Broadway Park were repaired and painted. The City Hall and Library grounds, the High School grounds, one-half the area between the High School building and the steamer house, were top-dressed with a heavy coat of manure. Other expenditures were for labor on the grass and walks.

THE NATHAN TUFTS PARK.

The surveys and estimates for laying out, grading, and the construction of the drives and walks, commenced in 1890, were continued during January and February, 1891. From a study of the plan of the drives and walks submitted by the donors of the Powder House land, it was apparent that if these drives were laid out as shown on the plan, the grade required from Elm street to the summit of the hill near the Powder House would cause a fill of at least four feet on the westerly line of the street laid out from near the intersection of Broadway and Elm street, on the northwest side of the Powder House.

Considerable study was given to the location and grade of the street and the connecting drives, and, in December, 1891, a modified plan was submitted to the engineer employed by the Tufts heirs.

By this revised plan the fill above referred to was reduced from four feet to about eighteen inches, but by the new location of the

street about 3,250 square feet of land were required more than was included within the original area donated by the Tufts heirs. Objections were made to the new location by the Tufts heirs, because of the additional land required; although, in my opinion, the value of the land was more than offset by the grade damages which would be occasioned by the laying out of the street in the original location. Since the revised plan was submitted to the engineer of the Tufts heirs I have received no communication either in favor or against it, and no progress has been made.

During the time that the change in location of the drives has been under consideration, it was suggested to the committee on public grounds that the proposed park should be considerably enlarged, and it has recently been decided to add about 100,000 square feet, provided that satisfactory terms can be made.

The park with the proposed addition would be bounded and described as follows:—

Beginning at a point on the southwesterly side of Broadway at the intersection with northwesterly line of Liberty avenue, thence westerly on Liberty avenue about 500 feet; thence northwesterly at right angles about 472 feet to Elm street; thence northeasterly on Elm street and Broadway about 760 feet to the point of beginning. The area thus bounded would be about 174,100 square feet, and includes the area of about 74,000 square feet included in the original gift. The frontage on Elm street and Broadway would be about 760 feet, including a frontage of about 250 feet on the open area at the intersection of Broadway, Elm street, and College avenue. This frontage on Elm street and Broadway, which streets are sixty feet and seventy feet wide, respectively, and the advantage of a frontage on the open area above referred to, are not obtained by the original gift of land. The frontage on Liberty avenue, a forty-foot street, would be about 500 feet. The remaining 472 feet of boundary would be on private land.

By the original plan, the area enclosed within the park lines would be about 69,450 square feet, and the park would have a frontage of 440 feet on a forty-foot street leading southerly from Elm street, and 270 feet on Liberty avenue, a forty-foot street, leading southerly from Broadway. Thus it is evident that the proposed park, if comprised within the original area, will be entirely cut off

from Broadway and Elm street when the adjoining land is occupied, and will only be connected with these thoroughfares by two forty-foot streets, having driveways approximately twenty-seven feet wide.

By the original plan the area which could be used for planting, or as a lawn, would be about 22,650 square feet, or about thirty-two per cent. of the total area of the park; the remaining sixty-eight per cent. of the area would be covered with drives and walks, as shown on the plan, and by the abrupt face of the ledge on the Elm-street side of the park.

By the revised plan, with the additional area suggested by the committee, the area enclosed would be two and one-half times larger than the original plan, and the area available for planting or grass would be about eighty-six per cent. of the total area, if the same system of drives and walks were adopted as is shown in the original plan.

The items of expenditure on public grounds were as follows:—

Maintenance.

CITY HALL AND LIBRARY GROUNDS.

Labor, care of walks and grass . . .	\$121	00	
Tools and repairs		1	65
Top dressing, labor	\$17	50	
Manure, 7.3 cords		38	15
		55	65
			\$178 30

HIGH SCHOOL GROUNDS.

Labor, care of walks and grass . . .	\$87	49	
Top dressing, labor	\$24	75	
Manure, 4.37 cords		21	85
		46	60
			134 09

CENTRAL HILL.

Labor, care of walks and grass, removing snow and ice	\$557	62	
<i>Amounts carried forward</i>	\$557	62	\$312 39

<i>Amounts brought forward</i>		\$557 62	\$312 39
Top dressing, labor	\$67 00		
Manure, 26.58 cords	132 90		
		<u>199 90</u>	
Tools		17 28	
Repairing tools and property		36 40	
Oil		55	
Plants		25 00	
Grass seed		2 00	
			<u>838 75</u>
Catch-basin grates			12 00
Concrete walk, 99 square yards at \$1.10			108 90
			<u>\$1,272 04</u>

BROADWAY PARK.

Labor, care of walks and grass		\$908 51	
Horse hire	\$56 00		
Grain and hay	27 01		
		<u>83 01</u>	
Plants		50 00	
Tools		3 65	
Repairing tools		26 35	
Oil		3 83	
Police service		67 00	
Electric lighting (two arc lights)		218 40	
Raising and lowering flag-staff top-mast		20 00	
Repairing flag		3 00	
Rope and block for flag-staff		2 52	
			<u>1,386 27</u>

REPAIRING AND PAINTING BUILDINGS.

Labor		\$49 50	
Lumber		37 49	
Conductors		18 54	
Sundry materials		7 46	
Painting		115 00	
Glazing		4 20	
			<u>\$2,658 31</u>
<i>Amounts carried forward</i>		\$232 19	\$2,658 31

<i>Amounts brought forward</i>	\$232 19	\$2,658 31
Stove pipe	7 53	
	<hr/>	239 72
Carriage hire		6 00

SOMERVILLE-AVENUE CEMETERY.

Labor, trimming grass and walks, once		12 00
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NATHAN TUFTS PARK.

Labor, digging test pits		31 00
		<hr/>
Total expenditure		\$2,947 03
New flag, 30 feet by 20 feet, charged to miscellaneous account		38 40

BROADWAY PARKWAY.

On Broadway, between Cross street and Marshall street, the street has a width varying from 100 to 200 feet. The horse car tracks formerly were laid on the easterly side of the street, leaving a roadway varying in width from seventy to 170 feet.

The expense of maintaining this wide roadway was large, and as a means of decreasing this cost of maintenance the question of laying out a parkway has repeatedly been agitated.

During the past season measures were taken to change the horse car service to an electric line, located in the centre of the roadway; and as the expense of erecting poles and wires on this wide roadway would have been very large and the method of supporting wires be dangerous to travel, if the poles had been erected on the edgestone line, it was decided to place one line of poles in the centre of the roadway, and to make it safe for travel with the poles in this location, it was decided to construct the proposed parkway.

January 27, 1892, an order was passed by the City Council authorizing the construction of a parkway in accordance with a plan and estimate submitted by the city engineer.

The plan submitted provides for the location of the car tracks in the centre of the present roadway and one line of iron poles for carrying the wires for car service, a sidewalk fifteen feet wide on

each side of the street, and a driveway forty-two and one-half feet wide on each side of the parkway. These dimensions fix the width of the parkway at eighty-five feet in the widest part and thirty-six feet at the ends.

The entire area, including the space occupied by car tracks, will be covered with grass. The estimated cost of completing the work, not including the work done on the car tracks, poles and wires, and the space occupied by the car tracks, was \$5,000.

During November and December, 1891, the car tracks were laid on the new location and the poles placed for the wires. Nothing was done on resurfacing the street or grading with loam.

WATER WORKS.

Lines and grades for laying water pipes have been given when required by the superintendent, and all mains and services laid have been located and recorded.

In March an estimate was made for a new main from the thirty-inch main on Pearl street through Cross, Tufts, and Washington streets to Union square.

The estimate provided for a twenty-inch main from Pearl street through Cross, Tufts, and Washington streets to the intersection of Washington and Medford streets; from this point a sixteen-inch on Medford street to the Cambridge line, and a twenty-inch through Washington street to Union square; a sixteen-inch through Webster avenue to Concord avenue; a twelve-inch in Concord avenue to Beacon street; a twelve-inch from Union square through Washington street to Beacon street; a twelve-inch in Somerville avenue from Union square to Elm street and Cedar street; a twelve-inch in Park street from Somerville avenue to Beacon street; a twelve-inch in Mossland street from Elm street to Somerville avenue to Beacon street; a sixteen-inch in Elm street from Cedar street to Davis square.

On Somerville avenue, between Union square and Cedar street, the sixteen-inch main is reduced to a twelve-inch, because it is intended to lay a second line of twelve-inch in Somerville avenue to be used for high service only.

To provide for the area south of Washington street and east of the Boston and Lowell Railroad, a sixteen-inch main should be laid

through Franklin street to Washington street. A twelve-inch main should be laid in Washington street from Franklin street to connect with the proposed twenty-inch at Tufts street.

The work done on the supply mains as outlined above is as follows: A twenty-inch main has been laid in Washington street from Tufts street to a point about twenty-six feet west of Medford street; an eighteen-inch from Tufts street to near Franklin avenue; a fourteen-inch pipe from Franklin avenue easterly about 100 feet; a twelve-inch from the end of the fourteen-inch easterly about 264 feet. A twelve-inch main was laid in Cedar street from Highland avenue to Elm street. The twelve-inch main last referred to completes a line from the thirty-inch Mystic supply main in Broadway to Elm street, and will be connected with the proposed sixteen-inch in Elm street from Cedar street westerly, and the proposed twelve-inch in Elm street and Somerville avenue easterly.

A fourteen-inch main was laid in Medford street from the East Cambridge line to Somerville avenue, instead of the sixteen-inch main, as recommended in my report and estimate made to the water board in March, 1891.

The high-service system is substantially in the same condition as in 1890. No extensions have been made and no changes made in the distribution. The recommendations proposed in the high-service report made in 1889, and adopted by the City Council of that year, have not been carried out. This report recommended that a twelve-inch main be laid in Highland avenue in place of the eight-inch wrought iron, cement-lined pipe; a ten-inch in Summer street from Cedar street to Union square, in place of the eight-inch cement; and a twelve-inch high-service main in Somerville avenue independent of the eight-inch cement there laid. These new mains must all be laid before the high-service supply will be of benefit to Union square and the southerly slope of Spring Hill.

A second tank will soon be needed on Winter Hill, to be used when it may be necessary to repair the tank on Spring Hill, or in case of a break in the force main. As the system is now arranged, in case of an accident to the tank or force main, the entire system would be supplied either from the low service or by pumping directly into the mains. The latter method would be hazardous without a tank or some substitute like a relief valve or pressure regulator.

When the consumption on the high service shall have increased

to require the pump to be run more than six to eight hours, a second tank will be needed to provide larger storage capacity than can be obtained in the present tank.

For these reasons, and, further, that available land on Winter Hill will soon be occupied for building purposes, I would recommend that land be purchased at once on Winter Hill in a suitable location, said land to be held for a site for a second tank. This purchase should be made at once, for economical reasons; for, should it be delayed too long, it will then be necessary to take land, occupied and improved by dwellings, at a greater cost than if taken at once.

A second boiler should be provided at the pumping station. If the boiler now in use at the pumping station should need repairs, it would be necessary to discontinue the high-service supply for an indefinite time. It would certainly be expedient to provide another boiler to provide for such a contingency.

HORACE L. EATON,

City Engineer.

APPENDIX A.

TABULAR STATEMENT OF SEWERS BUILT IN 1891.

LOCATION.		CONSTRUCTION.										COST.		
NAME OF STREET.	FROM.	TO.	BUILT BY.	MATERIALS	Size in Inches.	Manholes.	Chimneys.	Inlets.	Length in Feet.	Average Cut.	Average Cost per Foot.	Total Cost.	Assessment.	Cost to City.
Alpine (1)	Cedar St.	Easterly	Willard B. Bryne	Akron pipe	10	2	-	40	653.2	8.7	\$1.72	\$1,120.54	\$1,119.79	\$0.75
Atherton (2)	Central St.	Near Beech St.	Charles A. Mongan	Akron pipe	10	1	-	16	237.8	8.4	1.39	330.44	328.37	2.07
Ayer Ave.	Morrison Ave.	Near Frederick Ave.	Richard Falvey	Akron pipe	12	2	-	42	604.6	7.3	1.13	680.86	670.65	10.21
Belmont	Highland Ave.	Southwesterly	Richard Falvey	Akron pipe	12 and 10	2	-	40	565.1	8.6	1.15	652.09	651.22	87
Benton Ave.	Hudson St.	Near Highland Ave.	Charles A. Mongan	Akron pipe	8	1	-	10	205.0	8.2	.88	181.33	178.66	2.77
Broadway	Adams St.	Northwesterly	Dennis Ryan	Akron pipe	12	1	-	18	339.3	8.0	.98	332.84	326.63	6.21
Burnside Ave.	Elm St.	Near Summer St.	Richard Falvey	Akron pipe	12 and 10	4	-	46	678.8	9.7	1.50	1,013.37	960.37	53.00
Calvin	Washington St.	Dimick St.	Dennis Ryan	Akron pipe	12	1	-	28	466.2	9.0	1.10	513.77	501.14	12.63
Carver	Porter St.	Westerly	Charles A. Mongan	Akron pipe	10	1	-	8	170.7	9.2	.78	133.50	132.61	89
Concord Ave.	Dimick St.	Near Beacon St.	Dennis Ryan	Akron pipe	12	1	-	10	206.8	9.0	1.20	248.56	225.45	23.11
Conwell and	Highland Ave.	Francis St.	Dennis Ryan	Akron pipe	12	1	-	17	300.2	9.2	1.00	409.35	408.17	1.18
Francis	Conwell St.	Near Porter St.	Dennis Ryan	Akron pipe	8	1	-	6	110.1	9.1	.57	93.22	93.15	07
Cook	South Wyatt St.	Westerly	Charles A. Mongan	Akron pipe	8	1	-	6	164.0	3.5	.78	161.40	161.06	34
Cypress	Central St.	Near Beech St.	Willard B. Bryne	Akron pipe	8	1	-	12	207.1	6.4	.82	323.25	320.43	2.82
Elston	Elm St.	Near Summer St.	Willard B. Bryne	Akron pipe	12	1	-	12	350.8	8.8	.92	-	-	-
Hammond	End of old sewer	Near Concord Ave.	Nicholas Leonard	Akron pipe	8	-	-	2	50.0	7.5	*	-	-	-
Lawrence	Richardson St.	Cutler St.	Maurice Buttmer	Akron pipe	8	1	-	12	39.6	7.8	.73	175.87	175.49	38
Miner	Vernon St.	Northeasterly	Dennis Ryan	Akron pipe	8	1	-	9	167.3	9.4	.80	134.63	133.69	94
Morton	Knowlton St.	Near Glen St.	Charles A. Mongan	Akron pipe	10	1	-	8	228.3	9.7	*	-	-	-
Nashua	Richardson St.	Southwesterly	Dennis Ryan	Akron pipe	8	-	-	6	162.0	8.6	.75	120.73	120.55	18
Newbury	End of old sewer	Near Cambridge line.	Dennis Ryan	Akron pipe	8	-	-	9	241.9	8.0	.80	194.32	192.52	1.80
Pleasant Ave. and	End of old sewer	Vinal Ave.	Dennis Ryan	Akron pipe	12	-	-	4	90.00	7.1	.82	-	-	-
Vinal Ave.	Pleasant Ave.	Grand View Ave.	Charles A. Mongan	Akron pipe	8	1	-	13	206.0	7.5	}}	271.61	270.53	1.08

* Built by private parties.

(1) 169 cubic yards rock.

(2) 23 cubic yards rock.

TABULAR STATEMENT OF SEWERS BUILT IN 1891. — Continued.

LOCATION.		CONSTRUCTION.										COST.		
NAME OF STREET.	FROM.	To.	BUILT BY.	MATERIALS.	Size in Inches.	Manholes.	Chimneys.	Inlets.	Length in Feet.	Average Cut.	Average Cost Per Foot.	Total Cost.	Assessment.	Cost to City.
Porter and Porter Ave.	Brastow Ave.	Porter Ave.	Christopher Burke	Akron pipe	8	-	-	-	51.5	11.7	*	-	-	-
Private lands and Lowell (3)	Belmont St.	Lowell St.												
Private lands and Runey Place	End of above Pearl St.	Northeasterly	Christopher Burke	Akron pipe	12	2	-	17	251.7	9.3	2.18	1,046.12	673.85	372.27
Roberts	Randolph Pl.	Runey Pl.												
Sargent Ave. (4)	Lawrence St.	Near Runey St.	Charles A. Mongan	Akron pipe	12	1	-	9	239.2	5.6	98	235.42	232.25	3.17
Stone Ave. (5)	Sherman Pl.	Northwesterly	Charles A. Mongan	Akron pipe	8	-	1	6	167.3	7.3	59	99.01	98.60	43
Summer	Somerville Ave.	Mills St.	Richard Falvey	Akron pipe	8	2	-	20	251.1	6.9	1.15	289.08	287.50	1.58
Taylor	Lawrence St.	Near Columbus Ave.	Maurice Buttmer	Akron pipe	12 and 10	3	-	48	673.0	7.7	1.13	757.67	743.65	14.02
Waldo	Sydney St.	Northwesterly	Maurice Buttmer	Akron pipe	8	-	1	6	160.0	3.0	*	-	-	-
Whipple and Howard	Hudson St.	Near Mystic Ave.	Charles A. Mongan	Akron pipe	10	1	-	12	198.6	6.0	1.01	201.10	200.53	57
Wigglesworth (6)	Hawthorne St.	Near Highland Ave.	Charles A. Mongan	Akron pipe	8	1	-	10	201.8	7.2	78	157.20	151.79	5.41
William (7)	Highland Ave.	Northeasterly	Charles A. Mongan	Akron pipe	8	-	6	6	117.5	7.0	57	67.07	66.96	11
Windom	Whipple St.	Howard St.	Charles A. Mongan	Akron pipe	10	1	-	11	191.0	5.6	68	250.86	117.35	133.51
Wyatt	Pearl St.	Near Willow Ave.	Maurice Buttmer	Akron pipe	8	1	-	15	177.2	3.0	40	424.69	256.92	167.17
	Elm St.	Near Chandler St.	Willard B. Bryne	Akron pipe	12	1	-	16	303.0	7.3	1.40	1,060.55	649.66	410.89
	Elm St.	Near Summer St.	Willard B. Bryne	Akron pipe	12, 10, 8	2	-	12	389.5	10.0	2.72	219.41	218.41	1.00
	End of old sewer	Taunton St.	Nicholas Leonard	Akron pipe	12	1	-	9	232.8	8.2	94	-	-	-
					10	1	-	-	24.2	4.5	*	-	-	-
Total length of sewers built by city												\$11,899.28	\$10,667.85	\$1,231.43
Total length of sewers built by private parties														

RE-BUILT.

NAME OF STREET.	FROM.	To.	BUILT BY.	MATERIALS.	Size in Inches.	Manholes.	Chimneys.	Inlets.	Length in Feet.	Average Cut.	Average Cost Per Foot.	Total Cost.	Assessment.	Cost to City.
Spring	Somerville Ave.	Pitman St.	Willard B. Bryne	Akron pipe	18	1	-	7	222.8	7.3	\$1.66	\$370.83	-	\$370.83

(3) 182 cubic yards rock. (4) 8.4 cubic yards rock. (5) 1 cubic yard rock. (6) 18 cubic yards rock. (7) 196 cubic yards rock. * Built by private parties.

Total length of sewers built by the city previous to January 1, 1891

Total length of sewers built by the city during the year 1891

Length of sewers released to the city during the year 1891

Total length of public sewers built in the city Jan. 1, 1892

240,070.5

9,987.9

300.0

250,358.4

APPENDIX B.

TABLE SHOWING THE LOCATION AND COST OF EDGESTONE AND BRICK SIDEWALKS, OF PAVED GUTTERS AND ROADWAY CONSTRUCTED IN STREETS WHERE EDGESTONE WAS LAID.

STREET.	SIDE.	FROM.	TO.	WIDTH OF SIDEWALK.	MATERIALS.			PAVED GUTTERS.		GRAVEL.		MACADAM.	
					Gravel and Edgestones Lineal Feet.	Bricks, Sq. Yds.	Cost.	Sq. Yds.	Cost.	Sq. Yds.	Cost.	Sq. Yds.	Cost.
Adams	Northwest	Broadway	Medford St.	6.67	-	617	\$567 95	-	-	-	-	-	-
Aldrich	Both	Pearl St.	Gilman St.	6.67	780	-	490 07	260	\$393 70	-	-	-	-
Belmont	Northwest	Summer St.	Northeasterly	6.67	393	-	514 22	131	218 60	885	\$247 50	-	-
Boston	Both	Walnut St.	Prospect Hill Ave.	11 to 16.75	-	1,481	1,591 98	-	-	-	-	-	-
Broadway	Northeast	Winthrop Ave.	Cross St.	14.83	645	-	434 23	215	239 15	-	-	-	-
Central	Northwest	Gibbens St.	Cambria St.	6.67	190	-	136 45	63	40 80	-	-	-	-
Central	Northwest	Cambria St.	Southwesterly	6.67	115	-	79 45	38	29 00	-	-	-	-
Chandler	Northwest	Park Ave.	Near Broadway	6.67	1,072	-	761 51	357	569 75	-	-	-	-
Chauncey Ave.	Northwest	Jaques St.	Northeasterly	8.33	347	-	241 26	116	86 40	-	-	-	\$183 00
Gibbens	Both	Central St.	Benton Ave.	6.67	1,040	-	587 63	346	375 00	1,165	239 25	-	-
Grand View Av.	Both	Walnut St.	Vinal Ave.	6.67	-	746	705 35	-	-	-	-	-	-
Holland	West	Arlington R. R.	Broadway	10.0	2,408	-	1,473 42	802	956 40	-	-	2,220	98 20
Holland	East	Wallace St.	Irving St.	10.0	214	-	341 01	71	73 55	-	-	-	-
Irving	Southeast	Holland St.	Broadway	6.67	1,211	-	808	304	406 85	-	-	-	-
Medford	Southwest	School St.	Lowell R. R.	8.33	635	-	852 94	212	265 00	-	-	-	-
Montrose	Southwest	School St.	Sycamore St.	6.67	654	-	1,047 93	218	310 00	2,065	315 80	1,330	404 20
Norfolk	Both	Prospect St.	Cambridge Line	6.67	593	-	394 59	197	305 95	-	-	465	717 60
Pearl	Southwest	Cross St.	Aldrich St.	8.33	-	683	639 86	-	-	-	-	-	-
Pearl	Southwest	Aldrich St.	Walnut St.	8.33	-	579	599 54	-	-	-	-	-	-
Pleasant Ave.	Northwest	Walnut St.	Vinal Ave.	6.67	-	367	364 10	-	-	-	-	-	-
Prospect	Northwest	Washington St.	Somerville Ave.	6.67	737	-	429 53	246	247 20	1,700	485 20	-	-
Runey	Northwest	Medford St.	Cross St.	8.33	-	756	1,172 39	-	-	-	-	2,165	424 70
School	Northwest	Evergreen Ave.	Evergreen Ave.	8.33	649	-	812 17	216	298 35	-	-	-	-
School	Both	School St.	Near Laurel St.	7.50	1,241	-	447 35	414	701 76	-	-	-	-
Thurston	Northwest	Evergreen Ave.	Broadway	6.67	937	-	1,182 13	312	371 35	-	-	-	-
Tufts	Southwest	Washington St.	Cross St.	6.67	-	1,017	991 95	-	-	-	-	-	-
Vinal Ave.	Southwest	Summer St.	Highland Ave.	7.50	396	-	745 46	132	103 05	-	-	-	-
Washington	South	Medford St.	Lowell R. R.	6.67	639	-	446 53	219	242 15	1,000	223 50	-	-
Wesley Pk.	Both	Bow St.	Northeasterly	6.67	532	-	398 86	177	123 10	-	-	-	-
Wheatland	Northwest	Broadway	Jaques St.	6.67	-	-	-	-	-	-	-	-	-
Totals					15,448	10,379	\$20,070 11	5,046	\$6,357 11	6,815	\$1,511 25	8,650	\$1,887 70

APPENDIX C.

TABLE SHOWING LOCATION AND COST OF STREET IMPROVEMENTS.

NAME OF STREET.	GRAVEL.		MACADAM.	
	Sq. Yds.	Cost.	Sq. Yds.	Cost.
Beech	1,700	\$143 00	-	-
Belmont (Highland Ave. to land of David).	1,555	523 25	-	-
Brastow Ave.	1,900	276 80	-	-
Broadway (Charlest'n line to Franklip St.)	-	-	1,460	\$523 69
Cedar (Highland Ave. to Summer St.)	-	-	1,515	272 05
Flint	-	-	2,380	180 00
Jaques (Grant St. northwesterly)	-	-	830	456 35
Jenny Lind Ave. (Medford to Vernon)	2,530	340 05	-	-
Joy	1,915	263 20	-	-
Madison	-	-	2,470	898 50
Medford (Bartlett St. to Broadway)	-	-	4,665	1,326 40
Moore	-	-	415	113 20
Norwood Ave.	-	-	970	582 20
Park	-	-	3,030	958 20
Pearl (Cross St. to Franklin St.)	-	-	2,330	397 50
Preston	-	-	1,865	627 80
Rush (Flint St. to Pearl St.)	-	-	745	113 00
School (Highland Ave. to Medford St.)	-	-	2,700	258 75
Somerville Ave. (Park St. to Union Sq.)	-	-	10,450	2,434 50
Spring (Somerville Ave. to Beech St)	930	72 00	-	-
Tyler	-	-	1,120	446 60
Washington (Beacon St. to Camb. line)	-	-	800	393 00
William	-	-	1,055	245 40
Totals	10,530	\$1,418 30	38,800	\$10,227 14

APPENDIX D.
STREETS ACCEPTED IN 1891.

NAME OF STREET.	FROM.	TO.	Width in Feet.	Length in Feet.
Ames	Central Street . .	Bartlett Street .	40	580
Arthur	Broadway	Bonair Street .	40	438
Dickinson	Springfield Street .	Beacon Street .	40	770
Elston	Elm Street	Summer Street .	40	396
Gorham	Holland Street . .	Howard Street .	40	763
Harrison	Ivaloo Street . . .	Mondamin Court	40	335
Moore	Holland Street . .	Mead Street . .	40	695
Tennyson	Medford Street . .	Forster Street .	40	469
Thurston	Medford Street . .	Richdale Ave. .	40	310

APPENDIX E.

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.	Private.	40	-	530
Albion	Central St.	Cedar St.	Private.	about 35	-	2,740
Albion	Broadway	Medford Line	Private.	50	-	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
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	-
Arthur Ct.	Linden St.	Easterly	Private.	about 10	-	100
Arthur	Broadway	Bonair St.	Public.	40	438	-
Ashland	Summer St.	Sartwell Ave.	Private.	30	-	470
Asylum Ave.	Washington St. . .	McLean Asylum . . .	Private.	about 30	-	2,000
Atherton	Central St.	Beech St.	Private.	40	-	264
Auburn Ave.	Cross St.	B. & L. R. R.	Private.	30	-	500
Austi	Broadway	Mystic Ave.	Public.	40	680	-
Autumn	Broadway	Bonair St.	Private.	20	-	420
Avon	School St.	Central St.	Private.	40	-	1,360
Avon Pl.	Cross St.	B. & L. R. R.	Private.	25	-	150
Ayer Ave.	Morrison Ave. . . .	Boston Ave.	Private.	70	-	1,500
Bartlett	Vernon St.	Broadway	Private.	40	-	1,550
Bartlett	Washington St. . .	Asylum Grounds . . .	Private.	20	-	200
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	-
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	-
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.	25 & 40	-	400
Benton Ave.	Summer St.	Hudson St.	Private.	40	-	1,210
Berkeley	School St.	Central St.	Public.	40	1,360	-
Bigelow	Boston St.	High St.	Private.	50	-	203
Billingham	Broadway	William St.	Private.	40	-	568
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
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	Alewif Brook	Public.	60	910	-
*Boston Ave.	Cedar St.	Medford Line	Private.	50	-	1,200
Boston	Washington St. . .	Walnut St.	Public.	40 & 45	1,830	-
Bow	Union Sq.	Somerville Ave. . . .	Public.	60 to 50	1,100	-
Bowdoin	Washington St. . .	Southerly	Private.	40	-	370

* Proposed.

STREET.	FROM.	To.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Bow St. Pl. . . .	Bow St.	Northwesterly . .	Private.	40	-	300
Bradford Ave. . .	School St.	Southeasterly . .	Private.	40	-	150
Bradley	Pearl St.	Northeasterly . .	Private.	40	-	800
Brastow Ave. . . .	Lowell St.	Porter St.	Public.	40	686	-
Broadway	Charlest'n Line .	Arlington Line . .	Public.	60 to 200	17,000	-
Broadway Pl. . . .	Broadway	Southwesterly . .	Private.	22	-	250
Brook	Glen St.	Cro-s St.	Public.	40	500	-
Brook	Dover St.	Northerly	Private.	40	-	200
Buckingham	Beacon St.	Dimick St.	Public.	40	300	-
Burnside Ave. . . .	Elm St.	Summer St.	Private.	40	-	720
Calvin	Washington St. . .	Beacon St.	Private.	30 & 40	-	644
Cambria	Central St.	Northwesterly . .	Private.	40	-	300
Cameron Ave. . . .	Holland St.	Cambridge Line . .	Private.	60	-	1,000
Campbell Pk.	Meacham St.	Northerly	Private.	40	-	520
Campbell Pk.	Kingston St.	Westerly	Private.	40	-	500
Campbell Pk. Pl. . .	Campbell Pk.	Arlington Br. R.R.	Private.	20	-	84
Carlton	Somerville Ave. . .	Lake St.	Public.	40	300	-
Carver	Porter St.	Northwesterly . .	Private.	40	-	156
Cedar	Elm St.	Broadway	Public.	40	4,150	-
Cedar Ave.	Cedar St.	Linden Ave.	Private.	22	-	290
Cedar St. Pl.	Murdock St.	Southwesterly . .	Private.	20	-	220
Central	Somerville Ave. . .	Broadway	Public.	33, 40, 45	4,700	-
Centre	Albion St.	B. & L. R. R. . . .	Private.	35	-	200
Chandler	Park Ave.	Broadway	Public.	40	1,232	-
Chapel	Elm St.	Chandler Ct.	Public.	40	273	-
Chapel Ct.	Sycamore St.	Northwesterly . .	Private.	12	-	130
Charles	Washington St. . .	Aylum Grounds . .	Private.	30	-	200
Charlestown	Merriam St.	Allen St.	Private.	15	-	440
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
Chestnut Ct.	Harvard St.	Easterly & west'ly	Private.	35	-	400
Church	Summer St.	Lake St.	Public.	40	900	-
Church St. Pl. . . .	Church St.	Northwesterly . .	Private.	25	-	170
Claremon	Holland St.	Cambridge Line . .	Private.	40	-	560
Clarendon Ave. . . .	Broadway	Cambridge Line . .	Private.	40	-	1,210
Clark	Newton St.	Northwesterly . .	Private.	35	-	450
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 & 40	-	470
Congress Pl.	Linwood St.	Southwesterly . .	Private.	16	-	200
Conlon Ct.	Columbia St.	Easterly	Private.	20	-	200
Conwell	Highland Ave. . . .	Southwesterly . .	Private.	35	-	360
Conwell Ave.	Curtis St.	Westerly	Private.	40	-	600
Cook	Marion St.	West So. Wyatt St. .	Private.	40	-	450
Cooney	Beacon St.	Line St.	Private.	26	-	220
Cottage Ave.	Russell St.	Chester St.	Public.	40	500	-
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

* Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Crocker	Highland Ave.	Crown St.	Private.	40	-	530
Cross	Mystic Ave.	Medford St.	Public.	40 & 45	3,750	-
Crown	Porter St.	Lowell St.	Private.	30	-	700
Curtis	Broadway	Medford Line	Public.	40	2,300	- 4
Cutler	Lawrence St.	Northwesterly	Private.	20	-	170
Cutter	Broadway	Webster St.	Public.	40	740	-
Cutter Ave.	Summer St.	Highland Ave.	Private.	40	-	450
Cypress	Central St.	Beech St.	Private.	40	-	262
Dana	Bonair St.	Pearl St.	Public.	40	690	-
Dane	Somerville Ave.	Washington St.	Public.	40	1,270	-
Dane Ct.	Dane St.	Easterly	Private.	30	-	600
Dartmouth	Medford St.	Broadway	Public.	40	1,450	-
Day	Elm St.	Cambridge Line	Public.	40	94)	-
*Dean Ave.	Morrison Ave.	Boston Ave.	Private.	40	-	1,145
Delaware	Aldrich St.	Pearl St.	Private.	40	-	450
Dell	Glen St.	Tufts St.	Private.	40	-	465
Derby	Temple St.	Wheatland St.	Private.	40	-	1,032
Dexter	Broadway	Medford Line	Private.	50	-	25
Dickinson	Springfield St.	Beacon St.	Public.	40	770	- 4
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
Durham	Beacon St.	Hanson St.	Private.	40	-	450
Earle	South St.	Fitchburg R. R.	Private.	30	-	500
Eastman Pl.	Highland Ave.	Southwesterly	Private.	40	-	300
East Newton	Prospect St.	Webster Ave.	Public.	25	470	-
*Edgeworth	Mystic Ave.	Melrose St.	Private.	50	-	1,380
Edmunds	Broadway	Southwesterly	Private.	40	-	440
Eliot	Vine St.	Park St.	Public.	40	260	-
Ellsworth	Cross St.	Rush St.	Public.	40	210	-
Elm Ct.	Villa Ave.	Northwesterly	Private.	18	-	70
Elm Pl.	Harvard St.	Easterly & west'y	Private.	30	-	400
Elm	Somerville Ave.	Medford Line	Public.	60+	7,700	- 4
Elmwood	Holland St.	Cambridge Line	Private.	40	-	970
Elston	Elm St.	Summer St.	Public.	40	396	- 4
Emerson	Everett St.	Newton St.	Private.	30	-	170
Emery	Fitchburg R. R.	South St.	Private.	30	-	530
Endicott Ave.	Broadway	Southwesterly	Private.	40	-	800
Essex	Medford St.	Richdale Ave.	Private.	40	-	200
Everett	Webster Ave.	Newton St.	Private.	30	-	350
Everett Ave.	Cross St.	Dana St.	Public.	40	800	-
Evergreen Ave.	Marshall 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
Fanning Ave.	Highland Ave.	Lexington Ave.	Private.	50	-	375
Farragut Ave.	Broadway	Southwesterly	Private.	40	-	840
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
Fitchburg	Linden St.	Easterly	Private.	20	-	300
Flint	Franklin St.	Cross St.	Public.	40	1,020	-
Florence	Washington St.	Perkins St.	Public.	40	1,280	-
Folger	Broadway	Fairmount Ave.	Private.	40	-	280
Forest	Beacon St.	Cambridge Line	Public.	40	150	-
Forster	Sycamore St.	Central St.	Private.	30	-	430

*Proposed.

STREET.	FROM.	TO.	Public. or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Fountain Ave.	Cross St.	Glen St.	Private.	30	-	550
Francesca Ave.	Elm St.	Liberty Ave.	Private.	40	-	740
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	Main St.	Northeasterly	Private.	40	-	600
Fremont Ave.	Parker St.	Easterly & west'y	Private.	30	-	235
Frost Ave.	Somerville Ave.	Dane St.	Private.	35	-	550
Garden Ct.	Somerville Ave.	Fitchburg R. R.	Private.	25	-	370
Garfield Ave.	Broadway	Mysic Ave.	Private.	40	-	1,150
Garrison Ave.	Broadway	Southwesterly	Private.	40	-	850
George	Broadway	Lincoln Ave.	Private.	40	-	350
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	-
Glass House Ct.	Webster Ave.	Easterly	Private.	40	-	200
Glen	Broadway	Tufts St.	Public.	40	2,300	-
Gorham	Holland St.	Howard St.	Public.	40	763	-
Grand View Ave	Walnut St.	Vinal Ave.	Public.	40	470	-
Granite	Somerville Ave.	Os ood St.	Private.	40	-	400
Grant	Broadway	Mystic Ave.	Private.	40	-	1,350
Greene	Summer St.	Laurel St.	Private.	40	-	555
Greenville	Medford St.	High St.	Public.	40	660	-
Grove	Elm St.	Arlington B. R. R.	Public.	40	600	-
Grove	Arlington B.R.R.	Morrison St.	Private.	40	-	400
Hadley Ct.	Franklin St.	Westerly	Private.	20	-	150
Hall	Cedar St.	Cherry St.	Private.	30	-	350
Hall Ave.	Elm St.	Liberty Ave.	Private.	40	-	910
Hamlet	Highland Ave.	Southwesterly	Private.	30	-	400
Hammond	Dickinson St.	Concord Ave.	Private.	40	-	273
Hancock	Elm St.	Summer St.	Private.	40	-	770
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.	Mondamin Ct.	Public.	40	335	-
Harrison	Elmwood St.	Southeasterly	Private.	40	-	210
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.	Northwesterly	Private.	30	-	700
Heath	Temple St.	Moreland St.	Private.	45	-	1,800
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
High	Boston St.	Munroe St.	Private.	50	-	1,100
Highland Ave.	Medford St.	Davis Sq.	Public.	60	9,100	-
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	-
Holland	Lawrence St.	Northwesterly	Private.	20	-	170
Holt Ct.	Wyatt St.	Westerly	Private.	10	-	70
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

*Proposed.

STREET.	FROM.	To.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Houghton . . .	Prospect St. . .	Springfield St. . .	Private.	40	-	750
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 . . .	Cedar St. . .	Central St. . .	Private.	40	-	2,700
Hunting . . .	South St. . .	Cambridge Line . .	Private.	30	-	125
Irving . . .	Holland St. . .	Broadway . . .	Public.	40	1,180	-
Ivaloo . . .	Beacon St. . .	Park St. . .	Public.	40	650	-
Jackson . . .	Medford St. . .	Maple St. . .	Private.	30	-	150
Jacob . . .	Elm St. . .	Billingham St. . .	Private.	40	-	322
James . . .	Pearl St. . .	Veazie St. . .	Public.	40	320	-
Jaques . . .	Chauncey Ave. . .	Bond St. . .	Public.	40 & 45	2,250	-
*Jasper . . .	Pearl St. . .	Gilman St. . .	Private.	40	-	300
Jay . . .	Holland St. . .	Howard St. . .	Private.	40	-	525
Jenny Lind Ave.	Vernon St. . .	Medford St. . .	Public.	40	910	-
Jenny Lind Ave.	Medford St. . .	Broadway . . .	Private.	40	-	590
Jerome Ct. . .	Sycamore St. . .	Jerome St. . .	Private.	10	-	150
Jerome . . .	Montrose St. . .	Jerome Ct. . .	Private.	20	-	125
Joseph . . .	Newton St. . .	Northwesterly . .	Private.	40	-	380
*Josephine Ave. .	Morrison Ave. . .	Broadway . . .	Private.	45	-	1,715
Joy . . .	Washington St. . .	Poplar St. . .	Private.	30	-	1,150
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. . .	Beacon St. . .	Private.	25 & 40	-	740
Kidder Ave. . .	Elm St. . .	Liberty Ave. . .	Private.	40	-	610
Kingman Ct. . .	Washington St. . .	Fitchburg R. R. . .	Private.	25	-	400
Kingston . . .	Meacham St. . .	Campbell Pk. . .	Private.	40	-	320
Knapp . . .	School St. . .	Granite St. . .	Private.	40	-	350
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 . . .	Somerville Ave. . .	Summer St. . .	Public.	40	940	-
Lawrence . . .	Hinckley St. . .	B. & L. R. R. . .	Private.	35	-	650
Lawson Terrace .	Putnam St. . .	Easterly . . .	Private.	5	-	200
Lee . . .	Medford St. . .	Richdale Ave. . .	Private.	40	-	385
Leland . . .	Washington St. . .	Northeasterly . .	Private.	40	-	250
Leon . . .	Concord Ave. . .	Dickinson St. . .	Private.	40	-	150
Leonard Pl. . .	Joy St. . .	Northeasterly . .	Private.	13+	-	98
Lesley Ave. . .	Highland Ave. . .	Lexington Ave. . .	Private.	40	-	333
Leslie Pl. . .	Highland Ave. . .	Easterly . . .	Private.	12	-	75
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 . . .	Broadway . . .	Perkins St. . .	Public.	40	550	-
Linden . . .	Somerville Ave. . .	Fitchburg R. R. . .	Private.	30	-	705
Linden Ave. . .	Elm St. . .	Summer St. . .	Public.	45	1,050	-
Linden Ave. . .	Summer St. . .	Northeasterly . .	Private.	45	-	250
Linden Pl. . .	Linden Ave. . .	Northwesterly . .	Private.	20	-	160
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	-	400
Lowell . . .	Somerville Ave. . .	Crown St. . .	Private.	33+	-	1,600
Lowell . . .	B. & L. R. R. . .	Medford St. . .	Private.	33+	-	1,150

* Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Madison	School St. . . .	Sycamore St. . . .	Public.	40	891	-
Main	Broadway	Medford Line	Public.	50	950	-
*Malden	Mystic Ave. . . .	Melrose St.	Private.	50	-	1,360
Malloy Ct.	Somerville Ave.	Merriam St.	Private.	30 & 15	-	520
Mansfield	Somerville Ave.	Washington St. . . .	Private.	40	-	730
Maple	Poplar St.	Jackson St.	Private.	30	-	470
Maple Ave.	School St.	Southeasterly	Private.	40	-	300
Marion	Concord Ave. . . .	Adrian St.	Private.	40	-	170
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
McGregor Ave. . . .	Wigglesworth St.	Walnut St.	Private.	about 10	-	250
Meacham	Orchard St.	Cambridge Line	Public.	40	100	-
Meacham	Arlington B. R. R.	Orchard St.	Private.	40	-	600
Meacham	Mt. Vernon Ave.	Medford Line	Private.	40	-	800
Mead	Cameron Ave. . . .	Moore St.	Private.	40	-	340
Medford	Cambridge Line	Medford Line	Public.	50 & 55	10,100	-
*Melrose	Mystic Ave.	Middlesex Ave.	Private.	50	-	2,310
Melvin	Bonair St.	Northeasterly	Private.	35	-	150
Merriam	Somerville Ave.	Charlestown St. . . .	Private.	30	-	500
Middlesex Ave. . . .	Mystic Ave.	Medford Line	Public.	60	3,400	-
Milk St. Pl.	Somerville Ave.	Southwesterly	Private.	about 30	-	100
Miller	Sacramento St. . . .	Northwesterly	Private.	33	-	350
Mills	Walnut St.	Sargent Ave.	Public.	40	560	-
Miner	Vernon St.	Ames St.	Private.	40	-	245
Mondamin Ct.	Ivaloo St.	Harrison St.	Private.	25	-	250
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.	Meacham St.	Private.	40	-	700
Morgan	Beacon St.	Park St.	Public.	40	-	350
Morrison Ave.	Willow Ave.	Cedar St.	Private.	50	-	1,366
Morrison Pl.	Morrison St.	Northerly & east'y	Private.	15 & 20	-	370
Morrison	Willow Ave.	Elm St.	Public.	40	1,700	-
Mortimer Pl.	Marshall St.	Southeasterly	Private.	20	-	150
Morton	Glen St.	Knowlton St.	Private.	40	-	285
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.	Broadway	Public.	40 & 50	1,640	-
Munroe	Walnut St.	High St.	Private.	40	-	400
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	Medford Line	Public.	60 & 66	7,250	-
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.	Private.	40	-	200
Newbury	Holland St.	Cambridge Line	Public.	40	1,250	-
Newton Pl.	Newton St.	Easterly	Private.	about 10	-	100
Newton	Webster Ave.	Concord Ave.	Public.	40+	650	-

* Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
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 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.	Easterly & west'y	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 & north'y	Private.	30 & 20	-	350
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	Private.	40	-	1,500
Patten Ct.	Cutter St.	Southeasterly . . .	Private.	8	-	100
Pauline	Broadway	Holland St.	Private.	40	-	775
Pearl	Crescent St. . . .	Medford St.	Public.	40 & 50	4,750	-
Pearl St. Pl. . . .	Pearl St.	Northeasterly . . .	Private.	20	-	200
*Pearson Ave. . .	Morrison Ave. . .	Boston Ave.	Private.	45	-	1,300
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	-
Pinckney	Washington St. . .	Perkins St.	Public.	40	1,170	-
Pitman	Beech St.	Belmont St.	Private.	30	-	800
Pleasant Ave. . .	Walnut St.	Vinal Ave.	Public.	40	470	-
Poplar Ct.	Poplar St.	Southeasterly . . .	Private.	10	-	80
Poplar	Somerville Ave. . .	Joy St.	Private.	30 & 35	-	650
Porter Ave.	Porter St.	Northwesterly . . .	Private.	20	-	220
Porter Pl.	Porter St.	Northwesterly . . .	Private.	20	-	195
Porter	Elm St.	Summer St.	Public.	45	1,150	-
Porter	Summer St.	Highland Ave. . . .	Private.	45	-	830
Prescott	Summer St.	Highland Ave. . . .	Public.	50	1,050	-
Preston	School St.	Summer St.	Public.	40	800	-
Professors' Row .	College Ave. . . .	Curtis St.	Private.	40	-	1,900
Prospect	Washington St. . .	Cambridge Line . .	Public.	40 & 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
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.	Private.	40	-	645
*Rogers Ave. . . .	Morrison Ave. . . .	Broadway	Private.	45	-	1,700

*Proposed.

STREET.	FROM.	To.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Roseland . . .	Beacon St. . .	Cambridge Line .	Public.	40	100	-
Rossmore . . .	Somerville Ave.	Washington St. .	Private.	40	-	525
Runcy Pl. . . .	Runcy St. . . .	Northerly	Private.	40	-	200
Runcy	Cross St.	Aldrich St.	Public.	40	753	-
Rush	Broadway	Flint St.	Public.	40	1,400	-
Russell	Elm St.	Cambridge Line .	Public.	40	700	-
Sacramento . .	Somerville Ave.	Cambridge Line .	Private.	40	-	600
Sanborn Ave. .	Warren Ave. . .	Walnut St. . . .	Public.	40	280	-
Sargent Ave. .	Broadway	Mills St.	Public.	40	522	-
Sartwell Ave. .	Cedar St.	Cherry St.	Private.	35	-	400
School	Somerville Ave.	Broadway	Public.	40 & 50	4,370	-
Sellon Pl. . . .	Marshall St. . .	Northwesterly .	Private.	12	-	120
Sewall Ct. . . .	Sewall St. . . .	Southwesterly .	Private.	25	-	190
Sewall	Grant St.	Temple St.	Private.	40	-	650
Shawmut Pl. . .	Shawmut St. . .	Alston St.	Private.	30	-	200
Shawmut	Washington St. .	Cross St.	Public.	40	550	-
Shedd	Somerville Ave.	Charlestown St. .	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
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.	25 & 30	-	270
Somerville Ave. .	E. Camb. Line.	N. Camb. Line . .	Public.	70 & 75	11,100	-
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	-
Stickney Ave. .	Marshall St. . . .	School St.	Private.	40	-	450
St. James Ave. .	Elm St.	Summer St.	Public.	40	488	-
Stone Ave. . . .	Union Sq.	Columbus Ave. . .	Private.	40	-	675
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. . .	Private.	40	-	264
*Summer	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. . . .	Highland Ave. . .	Private.	33 & 40	-	1,350
Sydney	Wheatland St. . .	Temple St.	Private.	40	-	925
Taunton	So. Wyatt St . . .	Marion St.	Private.	30 & 20	-	260
Taylor's Pl. . . .	Somerville Ave.	Southerly	Private.	15	-	200
Taylor	Mystic Ave. . . .	Sydney St.	Private.	40	-	310
Temple	Broadway	Mystic Ave.	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. . . .	Arlington B. R. R.	Private.	40	-	460
Thorpe Pl. . . .	Highland Ave. . .	Southwesterly . .	Private.	30	-	450
Thurston	Broadway	Richdale Ave. . . .	Public.	40	1,660	-
Thurston	Broadway	Heath St.	Private.	40	-	340
Tower Ct.	Tyler St.	Northeasterly . .	Private.	25	-	150
*Tower	Crown St.	Highland Ave. . .	Private.	40	-	550
Tremont Pl. . . .	Tremont St. . . .	Southeasterly . .	Private.	about 10	-	75
Tremont	Webster Ave. . . .	Cambridge Line .	Public.	40	589	-
Trull	Vernon St.	Medford St. . . .	Private.	40	-	1,050
Trull Lane . . .	Highland Ave. . .	Oxford St.	Private.	15	-	200
Tube Works Ct. .	Somerville Ave.	Southwesterly . .	Private.	20	-	150
Tufts	Washington St. . .	Cross St.	Public.	40	940	-
Tyler	Vine St.	Dane St.	Public.	40	404	-

* Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
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
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	Somerville Ave.	Beacon St.	Private.	25 & 40	-	1,400
Virginia	Aldrich St.	Jasper St.	Public.	40	405	-
Wade Ct.	Cedar St.	Westerly	Private.	20	-	180
Waldo	Highland Ave.	Hudson St.	Private.	40	-	287
Wallace	Holland St.	Broadway	Public.	40	1,350	-
Walnut	Bow St.	Broadway	Public.	40	3,830	-
Ward	Medford St.	Earl St.	Private.	30	-	610
Warren Ave.	Union Sq.	Columbus Ave.	Public.	40	650	-
Warren	Medford St.	Cambridge Line	Private.	30	-	100
Warwick	Cedar St.	Southeasterly	Private.	40	-	630
Washington Ave.	Washington St.	Northerly	Private.	18	-	350
Washington	Charlest'n Line	Cambridge Line	Public.	60 to 100	7,250	-
Water	South St.	Northerly	Private.	25	-	250
Waverly	Washington St.	Southerly	Private.	35	-	200
Ware	Curtis St.	Northwesterly	Private.	40	-	700
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.	Montgomery Ave.	Easterly	Private.	40	-	85
Wesley Pk.	Wesley Sq.	Northeasterly	Public.	40	405	-
Wesley	Otis St.	Pearl St.	Private.	30 & 40	-	515
West	Broadway	Heath St.	Private.	30	-	250
West	Hawthorne St.	Arlington B. R. R.	Private.	30	-	590
Weston Ave.	Clarendon Ave.	Broadway	Private.	40	-	525
Wheatland	Broadway	Jaques St.	Public.	40	495	-
Wheatland	Jaques St.	Mystic Ave.	Private.	40	-	855
Wheeler	Pinckney St.	Mt. Vernon St.	Private.	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.	Private.	40	-	740
William	Chandler St.	Elm St.	Public.	40	381	-
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
Windom	Elm St.	Summer St.	Private.	40	-	300
Winslow Ave.	Elm St.	Grove St.	Private.	40	-	470
Winter	Elm St.	Holland St.	Private.	30	-	430
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
Wyatt Ct.	South Wyatt St.	Westerly	Private.	13	-	200
Wyatt (South)	Concord Ave.	Northerly	Private.	40	-	400
Wyatt (North)	Washington St.	Southerly	Private.	40	-	350

* Proposed.

UNNAMED STREETS.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
	Meacham St. . .	Northwesterly . .	Private.	20	-	190
	Pearl St.	Pearl St.	Private.	40	-	560
Total . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	246,882	179,785

Public, 46.76 miles; private, 34.05 miles.

REPORT

OF THE

COMMITTEE ON FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1892.

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 27, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FIRE DEPARTMENT, }
January 1, 1892. }

To the City Council:—

The following is the final report of the committee on fire department for the year ending December 31, 1891:—

The manual force of the department consists of seventy-seven members, including one chief and one assistant engineer, which is a decrease from last year of one member.

Under an order of the City Council, dated November 11, engine No. 1, located at the corner of Highland avenue and Walnut street, has been put in thorough repair by the Silsby Manufacturing Company, of Seneca Falls, N. Y., at an expense of \$1,537.00.

A new fuel wagon has been purchased during the year of Messrs. E. Teel & Co., of Medford, for Hose 3, at a cost of \$85.00.

A new sleigh was also purchased of Frank W. Leavitt for \$22.00.

Under an order dated September 17, plans and specifications for additions and alterations to the steamer house, situated at the corner of Highland avenue and Walnut street, in view of accommodations for a chemical engine and the extension of the fire-alarm telegraph system, have been accepted by the City Council, and it is hoped that the City Council of 1892 will take immediate measures for making these additions and alterations, which are so much needed.

Two new fire-alarm boxes have been added during the year.

Eight hundred feet of hose have been purchased during the year, at an expense of \$520.00, and \$879.60 has been expended for repairing hose. This expenditure was occasioned largely by the severe strain on the hose at the recent fire of John P. Squire & Co., October 5th.

The price paid for water from the hydrants for the year was \$2,898, which was an increase over the year 1890 of \$658.56. This increase is based on the increase of population. The price will remain the same for five years.

The committee desires at this time to commend the work of the department for the more than ordinarily arduous duties performed by the members during the year. The general good conduct and efficiency of the men commands general approval, not only by this committee, but also by the citizens generally, and is worthy of substantial recognition by the City Council.

We present herewith the report of the chief engineer, and recommend that it be printed with the annual reports.

The appropriation, receipts, and expenditures are shown by the following statements:—

FIRE DEPARTMENT ACCOUNT.

CREDIT.

Appropriation	\$32,000	00
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Receipts:—

For manure sold	\$54	00
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credit on horse doctoring bill	6	00
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	<u>60</u>	00
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Total credit	<u>\$32,060</u>	00
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DEBIT.

Expenditures:—

For salaries of permanent men	\$13,540	29
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salaries of call men	6,027	18
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substitute drivers	1,786	12
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improvements and repairs of apparatus and vehicles	2,141	03
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improvements and repairs of buildings and furniture, and new furniture	1,251	51
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new vehicles and apparatus	107	00
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<i>Amounts carried forward</i>	<u>\$24,853</u>	<u>13 \$32,060 00</u>
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<i>Amounts brought forward</i> . . .	\$24,853 13	\$32,060 00
maintenance and extension of fire-alarm telegraph . . .	985 10	
hose and hose pipe and repair- ing same	1,399 60	
grain and feed	1,072 44	
hay and straw	784 81	
horseshoeing	415 94	
horse medicine and doctoring . .	91 58	
harnesses and repairing same . .	132 60	
fuel	1,415 74	
supplies	62 98	
water for hydrants	2,898 00	
water for department buildings, gas	117 00	
ice	633 30	
washing and ironing	43 00	
telephones	84 19	
hand fire-extinguishers	36 20	
incidentals	42 00	
insurance	897 24	
Total debit	138 75	
	<hr/>	36,103 60
Amount overdrawn		<hr/> \$4,043 60

For the committee,

CHARLES B. SANBORN, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1892.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, January 27, 1892.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF CHIEF ENGINEER OF FIRE DEPARTMENT, }
December 31, 1891. }

To the Committee on Fire Department:—

GENTLEMEN,— I have the honor to submit to you a report of the operations of this department for the year 1891.

This report contains a statement of the number of fires, the loss by fire, the insurance on property, and the amount of insurance paid; also a roster of the department and several tables of statistics, which will be interesting and perhaps instructive.

The year 1891 has produced more fire alarms than any previous year during our existence as a city. Fire alarms have not only been numerous, but some of them have been a severe tax on the strength and endurance of the department; notably was this the case at the fire at John P. Squire & Co.'s, yet the members remained steadfast at their post of duty for many hours. Their conduct on this occasion was an evidence of discipline worthy to be mentioned in this official report.

I desire to tender thanks to his honor the mayor, Charles G. Pope, Aldermen Sanborn and Edmands, Councilmen Phillips, Bean and Smith, for their cordial support in all matters appertaining to the efficiency of the department.

NUMBER OF FIRE ALARMS.

The number of fire alarms during the year was eighty.

Loss	\$381,496 50
Insurance	657,250 00
Insurance paid	320,699 50

MANUAL FORCE.

The manual force of the department consists of seventy-seven men, divided as follows:—

Chief engineer	1
Assistant engineer	1
Engine Company No. 1	14
Engine Company No. 4	13
Hose Company No. 1	9
Hose Company No. 2	8
Hose Company No. 3	8
Hose Company No. 5	8
Ladder Company No. 1	15
	—
Total	77

APPARATUS.

The apparatus in service consists of,—

Two steam fire-engines, each of a capacity of 700 gallons per minute.

Four hose wagons, each equipped with forty-three feet of ladders, two hand chemical extinguishers, and 900 feet of hose.

One hose reel, with 800 feet of hose.

One combination carriage, carrying forty-seven feet of ladders, two thirty-gallon chemical tanks, 150 feet of small hand hose, and 800 feet of large hose.

One ladder truck supplied with ladders, axes, plaster hooks jumping canvas, pitchforks, and other necessary tools.

One old ladder truck.

All of the apparatus is in first-class condition, except the hose reel of Engine No. 1, which should be replaced with a modern hose wagon.

HOSE.

There are 8,000 feet of hose in the department.

BELL ALARMS.

The causes for which the alarms were given were as follows:—

No. of Alarm.

1. Children playing with matches.
2. Unknown.
3. Fire in Cambridge.
4. Spontaneous igniting of greasy rag.
5. Drying plastering.
6. Boiling over of oil on stove.
7. Sparks on roof.
8. Burning out of chimney.
9. Fire in Boston.
10. Children playing with matches.
11. Burning of rubbish.
12. Clothing in contact with stove.
13. Unknown.
14. Curtain in contact with gas jet.
15. Smoking in bathroom.
16. Defective heating apparatus.
17. Sparks from locomotive.
18. Explosion of lamp on piano.
19. Overheated peanut roaster.
20. Breaking of kerosene hanging lamp.
21. Children playing with matches.
22. Sparks on roof.
23. Breaking of lantern.
24. Boiling over of tar kettle.
25. Rags around a stove-pipe.
26. Hot ashes in a wooden box.
27. Explosion of oil stove.
28. Boys playing with matches.
29. Curtain in contact with gas jet.
30. Bonfire near dwelling.
31. Unknown.
32. Explosion of oil stove.
33. Defective switch box.
34. Bonfire near dwelling.
35. Fire-crackers on roof.

36. Explosion of oil stove.
37. Defective stove-pipe.
38. Unknown.
39. Caught from lighted cigar.
40. Bonfire.
41. Fire in Charlestown.
42. Children playing with matches.
43. Burning of rubbish.
44. Breaking of kerosene lamp.
45. Fire in Medford.
46. Fire in Cambridge.
47. Overheated oil stove.
48. Overheated oil stove.
49. Burning of rubbish.
50. Unknown.
51. Sparks on roof.
52. Hot ashes in wooden box.
53. Children playing with matches.
54. Burning of rubbish.
55. Burning of rags around stove-pipe.
56. Unknown.
57. Fire in Cambridge.
58. Lighted match dropped in hay (accidental).
59. Incendiary.
60. Incendiary.
61. Fire in Charlestown.
62. Cat knocking over matches.
63. Breaking of a kerosene lamp.
64. Children playing with matches.
65. Sparks from engine.
66. Unknown.
67. Hay-stack (incendiary).
68. Sparks in wood box.
69. Ignition with gas.
70. Igniting of benzine can.
71. Defective flue.
72. Grass fire.
73. Igniting of oil can near hot stove.
74. Children playing with matches.

75. Sparks from hoisting engine.
76. Children playing with matches.
77. Children playing with matches.
78. Defective chimney.
79. Breaking of kerosene lamp.
80. Burning of brush.

STILL ALARMS.

1. Curtain in contact with gas jet.
2. Defective fireplace.
3. Drying plastering.
4. Defective stove-pipe.
5. Smoke from furnace.
6. Sparks from locomotive.
7. Sparks in wood box.
8. Grass fire — sparks from engine.

FIRE-ALARM TELEGRAPH.

The fire-alarm telegraph consists of fifty-one signal boxes, twenty-six gongs, forty-eight miles of wire, six tower bell strikers, and 248 jars gravity battery. This great length of wires is divided into three circuits. If a wire breaks on one of these circuits, that part of the city over which it runs is without any means of giving an alarm. This system ought not to continue any longer. The City Council should know the jeopardy that property is placed in when one of these circuits is broken, and provide a remedy by making the circuits smaller. They never break except when there is a gale of wind or a great storm, and that is the most difficult time to repair the wires; it is also the time to make a large fire out of a small one during these gales or storms. The committee on fire department were authorized to procure plans and specifications for changing the house of Engine 1, in order to furnish accommodations for the fire-alarm telegraph, including an eight-circuit repeater, to be placed on the second floor of the building, and the first floor to furnish room for a chemical engine. These plans have been referred to the City Council of 1892. We cannot divide these large circuits into smaller ones until a new repeater is furnished, and room provided in which to place it.

BUILDINGS.

The number of buildings occupied by the department is six. Those occupied by Engine No. 1, Hose No. 2, Hose No. 5, and Engine No. 4 are in good condition. The buildings occupied by Hose No. 1, situated on Webster street, and Hose No. 3 and Hook and Ladder Company No. 1, in Union square, are nearly worn out, especially the former. This building is old, and always needing repairs; it is not adapted to the requirements of the city. I earnestly hope that some steps will be taken towards the erection of a new building in Ward One. It should be located on Broadway, near Franklin street, and should be of sufficient dimensions to accommodate a steam fire-engine, a ladder truck, and a hose wagon.

HYDRANTS.

All hydrants should be numbered, beginning with No. 1, and continue to the highest number in service. The figures should be of a size not less than three inches in length. The hydrants on the line of the high service should be painted one color, while those on the line of the low service should be painted a different color. This would give very valuable information to the firemen. If these suggestions are adopted by the water department, it will enable us to simplify the operations of the department and render more efficient service in extinguishing fires.

ADDITIONAL ENGINES AND LADDERS.

Experience has shown that our city has grown to such an extent during the past few years as to require more steam fire-engines to force water for extinguishing fires. In other words, the system of gravity pressure cannot be relied upon to throw effective streams. This can be accounted for by stating that the great increase in population causes a corresponding increase in the consumption of water; and as there has been no increase in the size of water pipes, it is obvious that in using two or more hydrants the pressure diminishes to such a degree that the force of the streams is not effective. Again, steamers are necessary, for the reason that many high buildings are

already erected, and others are in process of construction, where streams from the gravity system are of little value. In case of fire in the Citizen Building, Litchfield's Block, Masonic Building, or Odd Fellows' Hall, they must be protected by streams from steamers. The same is true of the six blocks in Union square, and of the Hathaway and other buildings in West Somerville. Steamer streams are necessary to conquer fires in nearly all the apartment houses. We now have two steamers. That means four streams of water. We should be armed so as to command eight streams.

Ladders are indispensable for efficient work. We now have a good truck and good ladders, but we need another truck. One is not enough. It should be of the Aerial pattern, capable of reaching to the top of our highest buildings. To have all of these things provided the coming year I do not expect, but these recommendations are made that you may have a knowledge of our condition, as I believe that it is the duty of a chief of a department of public safety to make known to his superiors the full condition of his department.

ROSTER OF THE FIRE DEPARTMENT OF THE CITY OF SOMERVILLE OF 1891.

Chief Engineer, JAMES R. HOPKINS.

Assistant Engineer, NATHANIEL C. BARKER.

Fire-alarm Operator, EDWARD F. BACKUS.

ENGINE COMPANY NO. 1.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Frank Langer . . .	Captain . .	37	Wood-moulder .	Oxford St.
Benjamin H. Pond . . .	Lieutenant .	24	Poultry dealer .	Vinal Ave.
Henry A. Byrnes . . .	Engineer . .	52	Engineer . . .	Walnut St.
William A. Burbank . . .	Fireman . .	49	Fireman . . .	Gilman St.
George F. Harris . . .	Driver . . .	32	Driver	Highland Ave.
William A. Perry . . .	Driver . . .	35	Driver	Hamlet St.
Wm. H. Whitcomb . . .	Hoseman . .	32	Janitor	Highland Ave.
Joseph Young	Hoseman . .	57	Janitor	Highland Ave.
Geo. L. Blackbird . . .	Hoseman . .	39	Mason	Highland Ave.
Fred S. Young	Hoseman . .	25	Plumber	School St.
Jesse A. Lipsett . . .	Hoseman . .	32	Desk-maker . .	Highland Ave.
Sewall M. Rich	Hoseman . .	28	Real-estate agt.	Medford St.
Oscar J. Lingley . . .	Hoseman . .	30	Milkman	Church St.
Fred'k A. Blackburn . .	Hoseman . .	23	Painter	Webster St.

HOSE COMPANY NO. 1.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Thomas H. Daley . . .	C'pt. & Driv.	46	Driver	Webster St.
John Frizzell	Lieutenant .	35	Painter	Everett Ave.
Edgar F. Shaw	Hoseman . .	39	Milkman	Everett Ave.
Clarence V. Cook . . .	Hoseman . .	33	Pressman	Glen St.
George North	Hoseman . .	30	Fish dealer . .	Cutter St.
Edward Grant	Hoseman . .	38	Carpenter . . .	Webster St.
John W. McDonald . . .	Hoseman . .	36	Milkman	Webster St.
John W. Logan	Hoseman . .	50	Painter	Everett Ave.
James E. Lovejoy . . .	Hoseman . .	27	Undertaker . .	Webster St.

HOSE COMPANY NO. 2.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Frank W. Ring . . .	Captain . .	37	Teamster . . .	Wheatland St.
Daniel R. Spike . . .	Lieutenant .	45	Cooper . . .	Broadway.
Joseph H. Hollis . . .	Hoseman . .	58	Painter . . .	Jaques St.
Charles H. Timson . . .	Hoseman . .	31	Teamster . . .	Marshall St.
Edwin R. Perham . . .	Hoseman . .	40	Expressman . .	Marshall St.
William F. Marble . . .	Hoseman . .	39	Fish dealer . .	Jaques St.
John W. Ring . . .	Hoseman . .	30	Furniture . . .	Marshall St.
Edward W. Ring . . .	Driver . .	44	Driver . . .	Marshall St.

HOSE COMPANY NO. 3.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Charles Trull . . .	C'pt.& Driv.	60	Driver	Prospect St.
Alfred R. Higgins . . .	Lieutenant .	41	Machinist . . .	Prospect St.
Frank L. Draper . . .	Hoseman . .	39	Machinist . . .	Medford St.
Charles H. Bridges . . .	Hoseman . .	42	Clerk	Medford St.
John H. Cuddy . . .	Hoseman . .	39	Cooper	Bow St. Pl.
James A. Ferguson . . .	Hoseman . .	29	Cooper	Warren Ave.
Charles W. Ferguson . . .	Hoseman . .	24	Cooper	Warren Ave.
Thomas Joy	Hoseman . .	37	Cooper	Joseph St.

ENGINE COMPANY NO. 4.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Samuel H. Stevens ✓ . . .	C'pt.& Driv.	49	Driver	Highland Ave.
Edwin F. Trefren ✓ . . .	Lieutenant .	35	Water departm't	Morrison St.
Lindorf D. Bixby . . .	Engineer . .	53	Engineer . . .	Highland Ave.
Charles H. Stearns . . .	Driver . .	36	Driver	Highland Ave.
John Gillooly . . .	Fireman . .	35	Fireman	Winslow Ave.
Danforth S. Steele . . .	Hoseman . .	41	Planer	Highland Ave.
Eugene H. Jones . . .	Hoseman . .	27	Lineman	Park Ave.
Frank A. Hersey . . .	Hoseman . .	36	Janitor	Highland Ave.
William H. Dennis . . .	Hoseman . .	43	Painter	Highland Ave.
John F. Burton . . .	Hoseman . .	34	Painter	Highland Ave.
James J. Watkins . . .	Hoseman . .	38	Tinsmith	Broadway.
James I. King . . .	Hoseman . .	25	Painter	Meacham St.
Samuel A. Campbell . . .	Hoseman . .	30	Tinsmith	Broadway.

HOSE COMPANY NO. 5.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Irving C. Jackson . .	C'pt.& Driv.	44	Driver	Somerville Ave.
William J. Blaisdell . .	Lieutenant .	45	Painter	Quincy St.
Charles H. Hilt	Hoseman .	41	Carpenter . . .	Porter St.
James H. Banks	Hoseman .	39	Cabinet-maker .	Beacon St.
Merrill N. Bent	Hoseman .	28	Cabinet-maker .	Beacon St.
Oscar P. Sheltus	Hoseman .	34	Cabinet-maker .	Somerville Ave.
Frederick G. Jones . .	Hoseman .	26	Paper-hanger . .	Somerville Ave.
Frederick W. Rivinius .	Hoseman .	40	Inspector	Somerville Ave.

ROBERT A. VINAL HOOK AND LADDER COMPANY NO. 1.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Melvin B. Ricker	C'pt.& Driv.	50	Driver	Washington St.
Horace P. Ewell	Lieutenant .	33	Carpenter	Bow St. Pl.
William A. McLane	Ladderman	31	Engineer	Clark St.
John E. Hill	Ladderman	45	Salesman	Rush St.
Patrick J. Follen	Ladderman	33	Upholsterer . . .	Allen St.
Frank S. Brown	Ladderman	45	Cooper	Washington St.
James M. Gould	Ladderman	45	Printer	Otis St.
James D. Perkins, Jr. . .	Ladderman	32	Paper-hanger . . .	Bow St. Pl.
Charles A. Southwick . .	Ladderman	32	Laborer	Clark St.
Martin S. Leacy	Ladderman	28	Painter	Washington St.
William J. Jones	Ladderman	36	Machinist	School St.
George A. Page	Ladderman	38	Laborer	Webster Ave.
Charles E. Shaw	Ladderman	39	Paper-hanger . . .	Highland Ave.
Richard F. Clarkson . . .	Ladderman	32	Painter	Rossmore St.
Samuel A. Coombs	Ladderman	50	Tinsmith	Quincy St.

TABLE SHOWING THE NUMBER OF MILES RUN BY EACH COMPANY.

Engine Company No. 1	140
Hose Company No. 1	123
Hose Company No. 2	117
Hose Company No. 3	97
Engine Company No. 4	183
Hose Company No. 5	133
Ladder Company No. 1	145
Total	<u>938</u>

TABLE SHOWING THE NUMBER OF BELL ALARMS ON EACH DAY OF THE WEEK.

Sunday	20
Monday	12
Tuesday	12
Wednesday	13
Thursday	8
Friday	7
Saturday	8
Total	<u>80</u>

TABLE SHOWING THE NUMBER OF ALARMS DURING THE DAY AND NIGHT.

From 7 A. M. to 7 P. M.	47
From 7 P. M. to 7 A. M.	33

TABLE SHOWING THE NUMBER OF FEET OF HOSE USED.

Engine Company No. 1	11,550
Hose Company No. 1	13,550
Hose Company No. 2	8,200
Hose Company No. 3	11,050
Engine Company No. 4	10,800
Hose Company No. 5	6,950
Chemical Hose	3,600
Total	<u>65,700</u>

TABLE SHOWING THE NUMBER OF FEET OF LADDERS USED.

Ladder wagon No. 1	. . . . .	2,335
Hose wagon No. 1	. . . . .	235
Hose wagon No. 2	. . . . .	250
Hose wagon No. 3	. . . . .	25
Chemical wagon No. 4	. . . . .	480
Hose wagon No. 5	. . . . .	124
Total	. . . . .	<u>3,449</u>

JAMES R. HOPKINS,

Chief of Fire Department.

LINEMAN'S REPORT.

SOMERVILLE, December 31, 1891.

Chief J. R. Hopkins, Superintendent of Fire Alarm:—

I herewith submit to you the annual report of the fire-alarm department for the year ending December 31, 1891. During the year the system has been in first-class condition, all alarms having worked correctly.

Two new boxes have been added to the system, box No. 335 and box No. 443.

Box No. 112, which was destroyed at the fire at J. P. Squire & Co.'s, has been replaced by a new box of the same number.

I would recommend the replacing of the movement of box No. 29 with one of more modern make, as the present movement is not non-interfering, and is liable to cause trouble if used in connection with another box.

I would again respectfully call your attention to the urgent need of a horse and wagon for this branch of the department, the necessity of which I explained in my last annual report.

Following is a statement of labor and materials used during the present year :—

New poles set	5
Miles of No. 9 iron wire run	4
Four-pin arms	25
Two-pin arms	40
Six-pin arms	12
Boxes put in service	2

The system at present consists of the following :—

Forty-eight miles of wire, fifty-one boxes, six tower bell strikers, six box indicators, twenty-six gongs, one fire circuit repeater, and two hundred and forty-four gravity battery jars.

Respectfully submitted,

EDWARD F. BACKUS,

Fire-alarm Operator.

REPORT

OF THE

COMMITTEE ON FUEL AND STREET LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 10, 1892.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 11, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FUEL AND STREET LIGHTS, }
 January 1, 1892. }

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, 1891.

SCHOOL FUEL ACCOUNT.

CREDIT.

Appropriation	\$7,500 00
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DEBIT.

Expenditures:—

For fuel to Beach-street School	\$92 51
Bell School	413 25
Bennett School	148 37
Bingham School	181 96
Brastow School	53 37
Brazillian Hall School	18 75
Burns School	167 12
Cedar-street School	35 57
Cummings School	96 35
Davis School	318 30
Edgerly School	460 93
Forster School	750 41

<i>Amounts carried forward</i>	\$2,736 89	\$7,500 00
--	------------	------------

<i>Amounts brought forward</i>	.	.	\$2,736 89	\$7,500 00
Franklin School	.	.	179 91	
Glines School	.	.	217 49	
Harvard School	.	.	20 47	
High School	.	.	379 86	
Highland School	.	.	1,181 49	
Jackson School	.	.	198 98	
Knapp School	.	.	690 54	
Lincoln School	.	.	305 88	
Morse School	.	.	914 05	
Prescott School	.	.	548 17	
Pope School	.	.	308 77	
Prospect Hill School	.	.	174 18	
Sycamore-street Chapel School	.	.	20 80	
Union School	.	.	35 10	
Webster School	.	.	119 35	
			<hr/>	
Total debit	.	.	.	\$8,031 93
				<hr/>
Amount overdrawn	.	.	.	\$531 93
				<hr/> <hr/>

STREET LIGHTS ACCOUNT.

CREDIT.

Appropriation \$22,500 00

DEBIT.

Expenditures: —

For lighting and care of oil lamps	.	\$40 05	
electric lighting	.	22,145 19	
electric side and mast arms	.	80 00	
changing locations of electric poles and lights	.	12 00	
moving street lamps	.	5 00	
Total debit	.	<hr/>	22,282 24
			<hr/>
Balance unexpended	.		\$217 76
			<hr/> <hr/>

FUEL.

Under an order dated May 13th, proposals were solicited for the furnishing of such fuel as should be required at the various public buildings and at the schoolhouses during the year commencing July 1, 1891, or such portion of said year as it might be possible to contract for, and, in response, proposals were received to furnish fuel for ninety days only, from

NAMES OF BIDDERS.	FURNACE COAL.	EGG COAL.	STOVE COAL.	HARD WOOD, PER CORD.	SOFT WOOD, PER CORD.
Dunning Brothers	\$4 95	\$5 05	\$5 15	\$7 50	\$6 00
Horatio Wellington & Co.	4 82	4 92	5 02	8 50	6 25
B. F. Wild & Co.	4 82	4 92	5 02	8 50	6 25
Geo. M. Winslow & Co. . .	4 80	4 80	4 80	8 00	5 50

and Messrs. George M. Winslow & Co. furnished the fuel at the prices as shown in the above table.

STREET LIGHTS.

The entire city is now lighted with electric lights, except on Boston avenue near the Medford line. At that location three oil lamps are used. They are lighted and cared for by the Wheeler Reflector Company at a cost of five cents per night, and are lighted on moon schedule. Under an order dated May 13th, authority was given this committee to increase the number of electric lights supplied by the Somerville Electric Light Company on the same terms as specified in the three-years' contract made with said company in 1889. Under this order seven arc lights and twelve incandescent lights were added, making a total of 158 arc and 356 incandescent lights in the city December 31, 1891.

The committee respectfully urge that the City Council take immediate action in the direction of preparatory steps toward a new contract for lighting our streets. Our present contract expires in October of this year, and is the occasion of much well-grounded complaint. The committee are of the opinion that more arc lights should be used, and those lighted every night and all night.

The whole system needs a general revision, and much better results may be obtained by some changes of location, even under present conditions.

The committee trust that an appropriation sufficiently large may be given the committee of the year 1892, that they may carry out the suggestions embodied in this report.

	OIL LAMPS.	ARC ELECTRIC LAMPS.	INCANDESCENT ELECTRIC LAMPS.	TOTAL.
Lamps in the city January 1, 1891, as per last report	3	151	347	501
Erected during the year at the expense of the city .	-	5	-	5
Erected during the year at the expense of the company	-	2	12	14
	3	158	359	520
Discontinued on account of arc lamps	-	-	3	3
Lamps in the city January 1, 1892	3	158	356	517

For the committee,

WM. A. HUNNEWELL, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
COMMITTEE ON PUBLIC PROPERTY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1892.

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 27, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON PUBLIC PROPERTY, }
January 1, 1892. }

To the City Council of Somerville:—

The committee on public property presents the following final report for the year 1891.

POLICE STATION INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$2,500 00	
Receipts for rent of hall and court room,	445 00	
	<hr/>	
Total credit		\$2,945 00

DEBIT.

Expenditures:—

For janitor's salary	\$850 00	
gas	788 48	
fuel	386 05	
water	72 70	
repairs and improvements on building and furniture	643 74	
incidentals	148 26	
	<hr/>	
Total debit		2,889 23
		<hr/>
Balance unexpended		\$55 77
		<hr/> <hr/>

SCHOOLHOUSE INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$13,550 00	
Receipts for articles sold	28 13	
Rental of ward room	25 00	
	<hr/>	
Total credit		\$13,603 13

DEBIT.

Expenditures : —

For repairs	\$3,315 62	
improvements	1,425 00	
furniture	4,307 58	
repairing furniture and putting down same	623 65	
cleaning building	32 50	
edgestones	9 50	
rent	824 00	
stove work	915 34	
insurance	2,481 37	
repairing blackboards	281 35	
emptying privy vaults	120 00	
flag-staffs	57 05	
concreting	250 20	
wiring for electric lights	24 00	
lettering building	150 00	
heat (superintendent of schools' office)	25 00	
carriage hire	5 00	
	<hr/>	
Total debit		14,847 16
		<hr/>
Amount overdrawn		\$1,244 03
		<hr/> <hr/>

The expenditures at the different schoolhouses were as follows:—

Baptist Chapel, Bow street.

Repairs	\$4 10	
Rent	175 00	
	<hr/>	\$179 10

Beach street.

Repairs	\$87 82	
Repairing furniture	3 00	
Stove work	78 55	
Emptying privy-vaults	20 00	
	<hr/>	189 37

Luther V. Bell.

Repairs	\$444 65	
Furniture	110 00	
Repairing furniture	19 63	
Stove work	68 57	
Repairing blackboards	34 20	
Insurance	50 00	
	<hr/>	727 05

Bennett.

Repairs	\$65 67	
Repairing furniture	2 00	
Stove work	47 09	
Repairing blackboards	15 24	
Concreting	139 50	
Flag-staff	57 05	
Emptying privy-vaults	20 00	
Insurance	18 00	
	<hr/>	364 55

Bingham.

Repairs	\$28 51	
Insurance	125 00	
	<hr/>	153 51

Amount carried forward

 \$1,613 58

Amount brought forward \$1,613 58

Brastow.

Repairs	\$33 99	
Repairing furniture	2 00	
Emptying privy-vaults	8 00	
Insurance	116 25	
	<hr/>	160 24

Brazillian Hall.

Repairs	\$18 30	
Rent	190 00	
Stove work	10 13	
	<hr/>	218 43

Burns.

Repairs	\$103 06	
Furniture	12 50	
Repairing furniture	4 00	
Insurance	125 00	
	<hr/>	244 56

Cedar-street.

Repairs	\$49 73	
Furniture	10 00	
Stove work	28 94	
Emptying privy-vaults	8 00	
Insurance	24 00	
	<hr/>	120 67

Cummings.

Repairs	\$114 12	
Repairing furniture	4 00	
Repairing blackboards	20 44	
Furnace work	112 04	
Concreting	38 70	
	<hr/>	289 30

Amount carried forward \$2,646 78

Amount brought forward \$2,646 78

Davis.

Repairs	\$87 67	
Furniture	6 80	
Repairing blackboards	50 15	
Furnace work	31 55	
Concreting	72 00	
	<hr/>	248 17

Edgerly.

Repairs	\$264 22	
Furniture	248 75	
Repairing furniture	11 75	
Repairing blackboards	9 28	
Repairing furnaces	253 76	
	<hr/>	787 76

Forster.

Repairs	\$233 41	
Furniture	178 60	
Repairing furniture	18 84	
Repairing blackboards	16 32	
Stove work	2 30	
Insurance	50 00	
	<hr/>	499 47

Franklin.

Repairs	\$79 50	
Stove work	67 44	
Emptying privy-vaults	12 00	
Insurance	135 00	
	<hr/>	293 94

Jacob T. Glines.

Repairs	\$7 75	
Furniture	1,203 52	
Repairing furniture and putting down same	126 35	
Insurance	348 75	
	<hr/>	1,686 37

Amount carried forward \$6,162 49

<i>Amount brought forward</i>		\$6,162 49
<i>Harvard.</i>		
Repairs	\$22 58	
Repairing furniture	1 00	
Stove work	21 40	
Emptying privy-vaults	8 00	
	<hr/>	52 98
<i>High.</i>		
Repairs	\$389 69	
Furniture	147 86	
Repairing furniture	18 50	
Repairing blackboards	14 00	
Wiring for electric lights	24 00	
Insurance	226 25	
	<hr/>	820 30
<i>Highland.</i>		
Repairs	\$177 06	
Furniture	238 80	
Repairing furniture	12 50	
Insurance	255 00	
	<hr/>	683 36
<i>Jackson.</i>		
Repairs	\$28 57	
Repairing blackboards	2 70	
Stove work	61 25	
Emptying privy-vaults	20 00	
Insurance	99 00	
	<hr/>	211 52
<i>O. S. Knapp.</i>		
Repairs	\$167 30	
Furniture	88 85	
Repairing furniture	12 00	
Repairing blackboards	49 96	
Stove work	36 64	
Lettering building (Knapp School)	150 00	
	<hr/>	504 75
<i>Amount carried forward</i>		<hr/> \$8,435 40

Amount brought forward \$8,435 40

Lincoln.

Repairs	\$228 93	
Furniture	34 85	
Repairing furniture	4 75	
Repairing blackboards	26 92	
New boiler	1,425 00	
	<hr/>	1,720 45

Morse.

Repairs	\$156 93	
Furniture	248 55	
Repairing furniture	11 00	
Repairing blackboards	17 64	
Stove work	27 12	
	<hr/>	461 24

Charles G. Pope.

Repairs	\$9 85	
Furniture	1,747 48	
Repairing furniture and putting down same	345 45	
Edgestones	9 50	
Cleaning building	32 50	
Insurance	502 50	
	<hr/>	2,647 28

Prescott.

Repairs	\$260 01	
Furniture	31 02	
Repairing furniture	19 25	
Repairing blackboards	22 52	
Insurance	217 62	
	<hr/>	550 42

Prospect Hill.

Repairs	\$132 04	
Stove work	1 55	
Insurance	84 00	
	<hr/>	217 59

Amount carried forward \$14,032 38

Amount brought forward \$14,032 38

Spring Hill.

Repairs 60

Sycamore-street Chapel.

Repairs	\$11 50	
Stove work	10 12	
Rent	225 00	
	<hr/>	246 62

Union.

Repairs	\$13 99	
Repairing furniture	3 13	
Stove work	15 05	
Emptying privy-vaults	8 00	
Insurance	11 25	
	<hr/>	51 42

Webster.

Repairs	\$94 07	
Repairing furniture	4 50	
Repairing blackboards	1 98	
Stove work	41 84	
Emptying privy-vaults	16 00	
Insurance	93 75	
	<hr/>	252 14

Superintendent of Schools' Office.

Rent	\$234 00	
Heat	25 00	
	<hr/>	259 00
Total		\$14,842 16
Carriage hire		5 00
		<hr/>
Total expenditure		<u>\$14,847 16</u>

SCHOOLHOUSE IN WARD TWO ACCOUNT.

(Washington Street.)

CREDIT.

Appropriation:—

Unexpended balance from 1890	.	\$33,712	32
Appropriated in 1891	.	14,000	00
		<hr/>	
Total	.		\$47,712 32

DEBIT.

Expenditures:—

James McNeil, on account of contract	.	\$42,875	00
James McNeil, extras, including additional steps	.	237	36
Smead Warming and Ventilating Co.,		2,670	00
Loring & Phipps, on account architects' services	.	900	00
Walter Bates & Son, concreting	.	173	70
		<hr/>	
Total expenditure	.		46,856 06
		<hr/>	
Balance unexpended	.		<u>\$856 26</u>

SCHOOLHOUSE IN WARD THREE ACCOUNT.

CREDIT.

Appropriation:—

Unexpended balance from 1890	.	\$26,819	98
Appropriated in 1891	.	12,000	00
		<hr/>	
Total	.		\$38,819 98
		<hr/>	
<i>Amount carried forward</i>	.		\$38,819 98

Amount brought forward \$38,819 98

DEBIT.

Expenditures:—

John B. Wilson, balance on account contract	\$32,500 00	
John B. Wilson, extra work on foundation	880 00	
John B. Wilson, extra mason work	543 19	
John B. Wilson, extra blasting	166 41	
O. S. Kendall & Co., heating and ventilating	2,970 00	
Loring & Phipps, balance on account architects' services	885 37	
Walter Bates & Son, concreting	101 14	
	<hr/>	
Total expenditure		38,046 11
		<hr/>
Balance unexpended		<u>\$773 87</u>

EXPENDITURES BY THIS COMMITTEE FROM MISCELLANEOUS ACCOUNT.

City Hall expenses:—

gas	\$81 44	
electric lighting	275 00	
fuel	46 00	
water	15 00	
telephone connections	48 43	
repairs and furniture	614 82	
incidentals	162 21	
	<hr/>	\$1,242 90
Preparing rooms for elections and caucuses		173 49
Rent of rooms for elections and caucuses		40 00
Distributing and collecting ballot boxes		7 00
Preparing hall for inauguration		4 00
Rental of seven sets telephone instruments in public buildings from Sept. 1, 1891, to Sept. 1, 1892		105 00
		<hr/>
<i>Amount carried forward</i>		<u>\$1,572 39</u>

<i>Amount brought forward</i>		\$1,572 39
Carriage hire		19 00
Incidentals		28 67
Expenses on Rifle Range:—		
insurance	\$6 00	
rent of land, nine months from Oct. 1, 1890, to July 1, 1891	112 50	
	<hr/>	118 50
City Messenger's team:—		
maintenance, including one new horse, \$200,		779 73
Total		<hr/> <u>\$2,518 29</u> <hr/>

POLICE STATION INCIDENTALS ACCOUNT.

In pursuance of an order dated September 9th, a new steam boiler was placed in the Police building by A. A. Sanborn, at a cost of \$575.00. Only such repairs as could not be postponed have been made during the year on account of want of funds. The building is sadly in need of repairs, and the committee would recommend to the City Council of 1892 that this matter receive their attention during the year.

SCHOOLHOUSE INCIDENTALS ACCOUNT.

The Baptist Chapel on Bow street, which was hired in 1890 for school purposes, was discontinued July 1st, at the close of the school term.

At the Beach-street school the front room was refitted with old furniture and occupied for school purposes September 15th.

At the Luther V. Bell School the wood-work on the outside of the building was painted, at a cost of \$129.50. A door has also been cut through from the upper hall to a room now used as a cloak-room.

At the Bennett School a portion of the boys' yard has been concreted, at a cost of \$139.50. A flag-staff has also been placed on the building, at a cost of \$57.05.

The Brastow School has been discontinued since November 1st, and the pupils have been transferred to the new Charles G. Pope School.

Brazillian Hall, situated on Broadway, which was hired for the pupils in the Winter Hill district, was discontinued in October, and the scholars transferred to the new Jacob T. Glines School on Jaques street.

At the Davis School the walk on the girls' side at the Glen-street entrance has been concreted, at a cost of \$72.00.

At the Edgerly School an office has been provided for the principal, at a cost of \$129.03. There has also been expended on repairs of furnaces during the year the sum of \$253.76, and this committee would most earnestly recommend to the City Council of 1892 that steps be taken toward the heating of this building with steam heat.

At the High School a radiator was placed in the north room of the upper floor, at a cost of \$46.33. The building has also been wired for electric lights in some of the rooms, at a cost of \$24.00. The principal's room has been refurnished and painted, at a cost of \$62.01. Iron gates have also been provided at the front entrance of the building, at a cost of \$45.00.

At the Highland School a room has been fitted up for a school-room, at an expense of \$170.50.

At the Lincoln School a new boiler has been placed in the building, at a cost, including carpentering, plumbing, and painting, made necessary by this change, of \$1,577.59, the boiler alone costing \$1,425.00. It was furnished by Braman, Dow, & Co.

At the Morse School a room was fitted up for school purposes, at a cost of \$257.84.

The Spring Hill School, a one-room building, has not been used during the year. The pupils formerly attending this school have been transferred to other schools.

The Charles G. Pope School — named in honor of our mayor — was commenced late in the fall of 1890, and has been finished during the year by James McNeil, of 509 Columbus avenue, Boston, at an expense of \$64,294.62, the items of expense being as follows:—

James McNeil, contract, \$42,875.00; James McNeil, extras,

including additional steps, \$237.36; Smead Warming and Ventilating Co., \$3,560.00; Loring & Phipps, architects' services, \$2,321.76; Walter Bates & Son, concreting, \$173.70; land, \$14,979.80; taxes, \$147.00. The bills are all paid except a balance due on architects' services, amounting to \$260.88, and a balance due the Smead Warming and Ventilating Co., amounting to \$890.00.

By referring to the report of 1890, it will be seen that the land, taxes, and a portion of the architects' services, amounting in all to \$16,287.68, were paid for from the appropriation of 1890, and the balance has been paid from the appropriation of 1891. This building is a two-story twelve-room brick building, situated at the corner of Washington and Boston streets.

The Jacob T. Glines School, which was named in honor of an old resident of Winter Hill, who was a member of the old town government as well of the early city governments, was also commenced late in the fall of 1890. The building has been finished during the year by John B. Wilson, of Charlestown, at the contract price of \$32,500.00, which is exclusive of the following items:—land, \$7,200.00; Loring & Phipps, architects' services, \$1,770.74; taxes, \$65.80; water service pipes, \$28.85; John B. Wilson, extras, \$1,589.60; Walter Bates & Son, concreting, \$101.14; and O. S. Kendall & Co., of Worcester, for heating and ventilating appliances, \$2,970.00; making the total cost, \$46,226.13. Of this amount \$8,180.02 was paid from the appropriation for 1890, the balance being paid this year. This building is an eight-room brick building, with finished ward room in basement, and is situated on Jaques street.

For the committee,

A. T. NICKERSON, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
INSPECTOR OF BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 13, 1892.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, January 13, 1892.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF INSPECTOR OF BUILDINGS, }
January 1, 1892. }

To the Honorable the Mayor and City Council:—

GENTLEMEN, — As required by the city building ordinance, I have the honor to submit this report of the business of this department for the year ending December 31, 1891.

The new ordinance went into force May 6, 1891. There was some difficulty experienced at first by the inspector of buildings in its enforcement, on account of not having the ordinance printed and ready for distribution; but since copies of the building ordinance have been distributed among builders and others interested in building, the inspector of buildings would report that the provisions of the ordinance have been generally complied with.

The total number of buildings, etc., for which permits were granted, and the uses for which they are intended, will be found in the following table:—

	WARDS.				TOTAL.
	1	2	3	4	
Single dwelling-houses	25	76	110	104	315
Dwelling-houses in blocks	—	9	4	14	27
Additions and alterations to buildings	7	4	13	2	26
Stables	2	11	19	12	44
Factories	—	—	—	5	5
Carriage houses	—	2	1	2	5
Church (brick)	1	—	—	—	1
Shops	—	7	1	1	9
Bakery with store	—	1	—	—	1
Business blocks and halls (brick)	—	1	1	—	2
Apartment house	—	1	—	—	1
Stores	1	1	1	—	3
Laundry	—	1	—	—	1
Greenhouse	—	—	1	—	1
Miscellaneous	6	6	4	1	17
	42	120	155	141	458

sented in the following table, under the heads of the months when the complaints were made :—

NUISANCES ABATED IN THE YEAR 1891.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cellar damp	4	-	2	-	-	2	2	6	1	1	1	1	20
Cesspool offensive	1	-	-	1	3	3	-	1	-	-	1	-	10
Cesspool overflowing	1	-	-	-	3	2	1	1	-	-	-	-	8
Connections of drainage pipes defective	3	1	2	3	1	2	5	2	1	2	4	1	27
Drainage defective	3	-	1	-	3	-	-	2	4	-	1	-	14
Drainage emptying into cellar	-	-	1	-	2	-	1	1	-	2	-	1	8
Drainage emptying on surface	2	-	1	-	3	-	-	-	-	2	-	-	8
Drainage not ventilated	2	-	-	-	-	-	2	-	7	-	-	-	11
Drain-pipe defective	2	-	1	1	-	1	-	1	5	-	-	2	13
Drying straw on sidewalk	-	-	-	1	-	-	-	-	-	-	-	-	1
Hennery offensive	-	-	-	-	-	1	-	1	2	-	-	-	4
Hens kept in cellar	1	-	-	-	-	-	-	-	1	-	1	-	3
Manure exposed and offensive	2	-	1	6	-	4	3	2	2	1	-	-	21
Offal on land	-	-	3	2	2	-	-	1	-	-	-	-	8
Offensive odor in and about dwellings	2	-	1	2	2	4	5	5	6	-	-	1	28
Opening in drain-pipe in cellar	-	-	-	-	-	-	1	-	1	-	1	-	3
Pigs kept without license	-	-	1	1	2	1	1	2	-	2	-	-	10
Premises filthy	-	-	-	1	-	1	-	-	-	-	-	-	2
Premises untidy	-	-	2	4	-	2	1	-	-	-	-	-	9
Premises undrained	1	-	-	-	-	-	-	-	1	1	-	-	3
Privy-vault defective	2	-	6	1	2	2	3	4	2	2	-	-	24
Privy-vault full	4	4	12	15	6	16	7	22	6	4	2	-	98
Privy-vault offensive	3	4	12	15	11	16	11	26	6	6	3	-	113
Removal of bodies of animals burned at fires	-	-	-	-	-	-	-	-	-	2	1	-	3
Rubbish in cellar	3	-	-	-	-	1	-	2	-	-	1	-	7
Sewer-gas in house	2	1	-	-	-	1	-	-	-	-	3	1	8
Slops thrown on surface	1	-	-	-	-	-	-	-	-	-	-	-	1
Stable infected with glanders	-	-	-	-	-	-	-	-	2	-	1	1	4
Stable and stable premises filthy and offensive	1	-	-	-	-	-	-	-	-	-	1	-	2
Stagnant water in house cellar	-	-	-	1	-	-	-	-	-	-	-	-	1
Stagnant water on surface	3	-	-	3	2	3	2	-	1	1	-	-	15
Waste-pipe defective	2	-	1	-	-	3	1	-	-	-	1	1	9
Waste-pipe not trapped	4	-	1	3	1	5	1	2	-	-	-	-	17
Water-closet defective	3	-	4	2	-	-	1	4	8	2	4	2	30
Water-closet insufficiently supplied with water	1	-	1	2	-	-	5	-	6	-	2	-	17
Water-closet offensive	2	-	2	-	-	-	1	1	2	-	3	-	11
Total	55	10	55	64	43	70	54	86	64	28	31	11	571

Number of nuisances abated	571
“ “ referred to board of 1892	116
“ “ complained of	687
“ complaints (many covering more than one nuisance)	264
“ tenements ordered vacated	1
“ notices mailed	202
“ “ served by constables	3

Probably as many nuisances as the number mentioned in the preceding table have been abated on verbal notice from the agent, without any action of the board; and of such no record has been made.

GLANDERS.—As may be seen by the foregoing table [stables infected with glanders], several cases of glanders have occurred during the year. When this disease is encountered the promptest action is necessary, and that we may have opportunity to take such action, we ask that owners of horses notify the board or its agent immediately on the appearance of this disease.

SEWER OUTLET, MYSTIC AVENUE.—A complaint, signed by a large number of the residents of Winter Hill, was presented to us concerning the bad odors from the sewer outlet at Mystic avenue, near the Broadway Park. This sewer drains a large territory, and empties, on the northeasterly side of Mystic avenue, into an open ditch, which extends across the marshes to a culvert under Middlesex avenue, and thence to the Mystic River. A tide-gate at its lower end prevents the contents of this ditch from discharging during about six hours in every twenty-four; and this, with the deposits on the flats, causes a nuisance which demands early attention.

BAD ODORS AT EAST SOMERVILLE.—The following reports, which were presented to the Board of Aldermen February 24, 1892, are self-explanatory:—

OFFICE OF BOARD OF HEALTH, CITY HALL, }
SOMERVILLE, Mass., February 24, 1892. }

To the Honorable Mayor and Board of Aldermen of the City of Somerville:—

GENTLEMEN,—In August, 1890, an order was passed by the Board of Aldermen requesting the Board of Health to investigate the

REPORT

OF THE

SUPERINTENDENT OF PUBLIC BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 13, 1892.

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 13, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE SUPERINTENDENT OF PUBLIC BUILDINGS, }
January 1, 1892. }

To the Honorable the Mayor and City Council:—

GENTLEMEN,—In compliance with the city ordinance No. 50, Sec. 8, this report is respectfully submitted. The following is a brief description of the public buildings in my care, and of the repairs and alterations of same, of which I have had the supervision, under the direction of the committee on public property.

Beach-street School.—This is a one-story wooden building, with two school-rooms, heated with stoves, only one room being used this year until after the summer vacation, when the other was fitted up with old furniture and is now used; plank walk repaired. The building needs some new sash, basement ceiling replastering, and fence repaired.

Luther V. Bell School.—This is a three-story brick building of thirteen rooms, one of which is in the basement. It is heated by direct and indirect steam from one boiler. A door was put in partition so as to use a small room for coat room, new treads to steps, doors to rear entrance, fifty new lid desks in principal's room, the old ones being used at the Charles G. Pope School. The fence around the building needs extensive repairs; a wall should be built at the rear of the lot. The woodwork of the building has been painted two coats outside.

Bennett School.—This is a slated-roof two-story wooden building of four rooms, heated with stoves. The janitor occupies rooms in the basement. A new sink was put in the hall, outside platform and walk repaired, a portion of boys' yard concreted; a flag-staff was put on front of building.

Bingham School.—This is a two-story brick building of four rooms, heated by direct and indirect steam from one boiler. Brick-work of boiler repaired, new conductors on building.

Brastow School.—This is a two-story slated-roof wooden building of two rooms, heated with stoves. At the present time not used for school purposes.

Burns School.—This is a two-story brick building of four rooms, heated by direct and indirect steam from one boiler. Plastering repaired, new conductors on building, drain so changed as to make a direct run to sewer, some new blackboards made.

Cedar-street School.—This is a one-story wooden building of two rooms set on posts, heated with stoves. New curtains and plank walk, plastering repaired. Both of the rooms are now used.

Cummings School.—This is a slated-roof wooden building of four rooms, heated by two furnaces. Concrete walk made to entrance, furnaces repaired, a portion of the school-room floor taken up and relaid, basement whitewashed.

Davis School.—This is a slated-roof wooden building of four rooms, heated by three furnaces. Concrete walk made to girls' entrance, conductors repaired, blackboards and furnaces repaired.

Edgerly School.—This is a two-story brick building of eight full-sized school-rooms, two separate halls through building, basement eight feet high, with two rooms, used for scholars. It is heated by four furnaces; they are run beyond their capacity in order to heat the building, causing a great outlay for repairs each year. This building should be heated by steam. An office was made for the principal, adjoining his room, a supply closet filled up, fence repaired, plastering patched, principal's room tinted, bulkhead repaired, curtains for basement room.

Forster School.—This is a three-story brick building of twelve rooms. It is heated with direct and indirect steam from two boilers. Tops of desks in one room dressed off, one hundred feet of new fence built, steps and fence repaired.

Franklin School.—This is a two-story wooden building of four rooms, heated with stoves. The repairs have been of a general nature; a flagstaff was erected.

Jacob T. Glines School.—This is a new brick building, with eight school-rooms, and ward-room in basement. The two upper centre rooms are connected by sliding doors. It was completed

and occupied in November. It has the complete system of heating, ventilating, and sanitarities as put in by O. S. Kendall & Co., of Worcester, Mass.

Harvard School. — This is a one-story wooden building of one room, heated by two stoves. Repairs have been made to plumbing, stoves, etc.

High School. — This is a three-story brick building, heated by direct and indirect steam from two boilers. A radiator was put in the north upper room, stairs repaired, iron gate put at front entrance, roof repaired, twenty desks furnished and set up, brick work pointed on rear of building, new tube to boiler, etc. The janitor and family occupy the basement rooms.

Highland School. — This was formerly an eight-room brick building, but in 1890 the building was raised and one story added of four rooms. It has now twelve rooms, heated and ventilated by the Smead system. Fence repaired; one new teacher's desk and forty No. 1 lid desks were furnished.

Jackson School. — This is a two-story wooden building of four rooms, heated by stoves. The janitor occupies four rooms in the basement. The building needs extensive repairs. The floors have settled, and they need to be raised, as well as all inside partitions. The fences need repairing. The upper ceilings have been strengthened by trusses put in attic.

Knapp School. — This is a two-story brick building of eight rooms, with play rooms in basement. The complete arrangement of heating, ventilating, and sanitarities of the Fuller, Warren, & Co. system is in this building. Roof repaired around chimney, truss bolts set up, name cut on building, outside doors oiled, eighteen new desks and seats put in.

Lincoln School. — This is a slated-roof wooden building of four rooms. It is now heated by direct and indirect steam from one boiler, the boiler having been put in this summer. It has the Fuller-Warren sanitarities. Repairs have been made to blinds, doors, roof, seats and desks, blackboards, etc.

Morse School. — This is a twelve-room brick building. It has the complete system of the Fuller, Warren, & Co. heating, ventilating, and sanitarities. Repairs have been to roof, furnaces, etc.; fifty lid desks have been supplied.

Charles G. Pope School. — This is a new twelve-room brick build-

ing. Was completed and occupied in November. The building has the Smead system of heating, ventilating, and sanitarities. At the present time the chimneys are being built higher, so as to increase the draft.

Prescott School.—This is a twelve-room brick building, heated by direct and indirect steam from one boiler. Pipes are all in for the full heating of the building by indirect, but the radiators have not been supplied. If the system should be completed, it would require another boiler and increased draft, necessitating alterations to chimney, as the draft at times is very poor. A door was cut through to yard for small children, basement whitewashed, water-closets repaired, plastering patched, desks and seats repaired, etc.

Prospect Hill School.—This is a six-room wooden building. At present time but four rooms are used. The furniture of two rooms was taken to the Charles G. Pope School. It is heated by three furnaces. Slight repairs have been made.

Spring Hill School.—This is a one-room wooden building, and has not been used during the year.

Union School.—This is a one-room wooden building. At the present time not in use for school purposes.

Webster School.—This is a two-story wooden building of four rooms. Only three have been used. Walks and outhouse repaired, stoves repaired, etc.

City Hall.—This is a two-story brick building, heated by direct steam from one cast-iron boiler. Repairs have been made to roof, boiler, windows, etc.

Police Station.—This is a brick building, heated by direct and indirect steam from one boiler, and on examination the boiler was found to be so much out of repair that a new one was put in. The building has had but slight repairs, but needs to have the outside wood-work painted, and general repairs to wood-work, ceilings, and floors inside.

The foregoing report shows only some of the repairs, improvements, and alterations that have been done on our public buildings for the year for which the expenditures were made. Many of our public buildings need repairs and painting on the outside in order to keep them in a state of preservation; concrete walks should be made instead of repairing plank walks; our schoolhouse lots should be fenced or curbed. I have not made any estimate of the cost of

repairs, etc., as the expenditures have always been governed by the sum appropriated.

Respectfully submitted,

THOMAS R. ROULSTONE,

Superintendent of Public Buildings.

REPORT
OF THE
SUPERINTENDENT OF LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 13, 1892.

Accepted and 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 13, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE SUPERINTENDENT OF LIGHTS, }
January 1, 1892. }

To the Honorable the Mayor and City Council:—

GENTLEMEN,—As required by ordinance, I have the honor to submit this as a yearly report on street lights.

There were in the city on January 1, 1891, 501 street lamps. During the year seven electric arc and twelve incandescent have been added, and three incandescent discontinued, making the number in the city on January 1, 1892, three oil, 158 electric arc, and 356 incandescent. Total of 517 lamps. Seven of the arc lamps are placed upon iron extensions, using a lamp-post for a base. These posts and extensions belong to the city. Sixteen arc are upon arms, and two are suspended in the centre of the street. Seven of the arms belong to the city.

The arc lamps burn every night until 1 o'clock. The incandescent and oil lamps burn twenty-two nights a month, moonlight schedule. Most of the arc lamps are placed upon high poles. I would recommend that more of them be placed on extensions or arms, so as to bring them below branches of trees and more over the centre of the street. .

ELECTRIC STREET LIGHTS.

The following table gives the locations of street lamps, their kinds, and how placed:—

ELECTRIC ARC LAMPS.	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Austin and Benedict Sts.	1	-	-	-
Beacon St. and Concord Ave.	1	-	-	-
Beacon and Buckingham Sts.	1	-	-	-
Beacon and Washington Sts.	1	-	-	-
Beacon and Kent Sts.	1	-	-	-
Beacon and Park Sts.	1	-	-	-
Beacon and Sacramento Sts.	1	-	-	-
Beacon and Harris Sts.	1	-	-	-
Bow and Walnut Sts.	1	-	-	-
Bow St. and Wesley Sq.	1	-	-	-
Boston St. and Prospect Hill Ave.	1	-	-	-
Broadway and Union St.	1	-	-	-
Broadway and Benedict St.	1	-	-	-
Broadway and Franklin St.	1	-	-	-
Broadway and Glen St.	1	-	-	-
Broadway and Cross St.	1	-	-	-
Broadway and Winthrop Ave.	1	-	-	-
Broadway and Chauncey Ave.	1	-	-	-
Broadway and Grant St.	1	-	-	-
Broadway and Marshall St.	-	-	-	1
Broadway and School St.	-	1	-	-
Broadway and Dartmouth St.	-	1	-	-
Broadway and Thurston St.	1	-	-	-
Broadway and Main St.	1	-	-	-
Broadway and Adams St.	1	-	-	-
Broadway and Partridge Ave.	1	-	-	-
Broadway and Medford St.	1	-	-	-
Broadway and Cedar St.	1	-	-	-
Broadway and Willow Ave.	1	-	-	-
Broadway and Elm St.	1	-	-	-
Broadway and Wallace St.	1	-	-	-
Broadway and Holland St.	1	-	-	-
Broadway and North St.	1	-	-	-
Cedar and Clyde Sts.	1	-	-	-
Central and Vernon Sts.	1	-	-	-
Central and Forster Sts.	-	1	-	-
Central and Berkeley Sts.	1	-	-	-
College Ave. and Professors' Row	1	-	-	-
Columbus and Warren Aves.	1	-	-	-
Columbus and Bonner Aves.	1	-	-	-

ELECTRIC STREET LIGHTS.— *Continued.*

ELECTRIC ARC LAMPS.	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Concord Sq.	1	-	-	-
Concord Ave. and Leon St.	1	-	-	-
Cook and Adrian Sts.	1	-	-	-
Chandler St.	1	-	-	-
Curtis St. and Professors' Row	1	-	-	-
Cross and Otis Sts.	1	-	-	-
Cross and Runey Sts.	1	-	-	-
Cross and Pearl Sts.	1	-	-	-
Cross St. at Lowell Railroad bridge	1	-	-	-
Dane and Village Sts.	1	-	-	-
Day St., No. 40	1	-	-	-
Davis Sq.	-	-	-	1
Elm and William Sts.	1	-	-	-
Elm and Morrison Sts.	1	-	-	-
Elm and Chester Sts.	1	-	-	-
Elm and Russell Sts.	1	-	-	-
Elm and Beach Sts.	1	-	-	-
Elm and White Sts.	-	1	-	-
Elm and Mossland Sts.	1	-	-	-
Elm and Porter Sts.	1	-	-	-
Evergreen Ave. and School St.	1	-	-	-
Evergreen Ave. and Dartmouth St.	1	-	-	-
Evergreen Ave. and Thurston St.	1	-	-	-
Flint St., opposite Rush St.	-	-	-	1
Franklin St., opposite Perkins St.	-	-	-	1
Gilman and Aldrich Sts.	-	1	-	-
Highland Ave. and Medford St.	1	-	-	-
Highland Ave. and Walnut St.	1	-	-	-
Highland Ave. at Battery on Central Hill Pk.	1	-	-	-
Highland Ave. and Prescott St.	1	-	-	-
Highland Ave. and School St.	1	-	-	-
Highland Ave. and Sycamore St.	1	-	-	-
Highland Ave. and Central St.	-	-	1	-
Highland Ave. and Belmont St.	1	-	-	-
Highland Ave. and Porter St.	1	-	-	-
Highland Ave. and Cedar St.	1	-	-	-
Highland and Willow Aves.	1	-	-	-
Highland Ave. and West St.	1	-	-	-
Highland Ave. and Grove St.	1	-	-	-
Holland and Wallace Sts.	1	-	-	-
Holland St. and Simpson Ave.	1	-	-	-
Holland St. and Cameron Ave.	1	-	-	-
Jaques and Bond Sts.	1	-	-	-
Linwood and Poplar Sts.	1	-	-	-
Linwood St.	1	-	-	-
Main and Fremont Sts.	1	-	-	-
Medford and South Sts.	1	-	-	-
Medford St. and Somerville Ave.	1	-	-	-

ELECTRIC STREET LIGHTS.— *Continued.*

ELECTRIC ARC LAMPS.	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Medford St., bet. Somerville Ave. and Washington St.	1	-	-	-
Medford St., near Cross St.	-	-	-	1
Medford and Walnut Sts.	1	-	-	-
Medford St. and Winter Hill depot	1	-	-	-
Medford and School Sts.	1	-	-	-
Medford and Essex Sts.	-	1	-	-
Medford and Thurston Sts.	1	-	-	-
Medford and Sycamore Sts.	1	-	-	-
Medford and Central Sts.	1	-	-	-
Medford St. and Jenny Lind Ave.	-	-	1	-
Medford St. and Norwood Ave.	-	1	-	-
Mystic Ave. and South Union St.	1	-	-	-
Oliver and Glen Sts.	1	-	-	-
Orchard and Dover Sts.	-	1	-	-
Orchard and Chester Sts.	-	1	-	-
Pearl and Crescent Sts.	-	1	-	-
Pearl and Mt. Vernon Sts.	1	-	-	-
Pearl and Florence Sts.	1	-	-	-
Pearl and Franklin Sts.	1	-	-	-
Pearl and Glen Sts.	1	-	-	-
Pearl and Aldrich Sts.	1	-	-	-
Pearl and Walnut Sts.	1	-	-	-
Professors' Row and Packard Ave.	1	-	-	-
Perkins and Mt. Vernon Sts.	1	-	-	-
Perkins and Pinckney Sts.	-	-	-	1
Somerville Ave. and Beacon St.	1	-	-	-
Somerville Ave. and Craigie St.	1	-	-	-
Somerville Ave. and Spring St.	1	-	-	-
Somerville Ave. and Central St.	-	1	-	-
Somerville Ave. and Laurel St.	-	1	-	-
Somerville Ave. and Dane St.	-	1	-	-
Somerville Ave. and School St.	1	-	-	-
Somerville Ave. and Bow St.	1	-	-	-
Somerville Ave. and Hawkins Ct.	1	-	-	-
Somerville Ave. and Washington St.	1	-	-	-
Somerville Ave. and Prospect St.	1	-	-	-
Somerville Ave. and Mystic St.	1	-	-	-
Somerville Ave. and Poplar St.	1	-	-	-
Somerville Ave. and Fitchburg Railroad crossing	1	-	-	-
Somerville Ave. and Franklin Ct.	1	-	-	-
Summer St. and Willow Ave.	1	-	-	-
Summer and Cedar Sts.	1	-	-	-
Summer and Porter Sts.	1	-	-	-
Summer and Belmont Sts.	-	1	-	-
Summer and Harvard Sts.	1	-	-	-
Summer and Central Sts.	1	-	-	-
Summer and Preston Sts.	1	-	-	-
Summer and School Sts.	1	-	-	-
Summer and Prescott Sts.	1	-	-	-

ELECTRIC STREET LIGHTS.— *Concluded.*

ELECTRIC ARC LAMPS.	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Summer and Putnam Sts.	1	—	—	—
Springfield and Houghton Sts.	1	—	—	—
Sycamore St.	—	1	—	—
Union Sq.	—	—	—	1
Union Sq.	—	—	—	1
Walnut St. and Summit Ave.	1	—	—	—
Washington and Mt. Vernon Sts.	1	—	—	—
Washington and Florence Sts.	1	—	—	—
Washington and Franklin Sts.	1	—	—	—
Washington and Tufts Sts.	1	—	—	—
Washington and Joy Sts.	1	—	—	—
Washington and Medford Sts.	1	—	—	—
Washington and Mystic Sts.	1	—	—	—
Washington St. and Fitchburg Railroad bridge . . .	1	—	—	—
Washington and Dane Sts.	1	—	—	—
Webster and Cutter Sts.	—	1	—	—
Webster and Rush Sts.	1	—	—	—
Willow Ave. and Morrison St.	1	—	—	—
Webster Ave. and Prospect St.	1	—	—	—
Webster Ave. and Norfolk St.	1	—	—	—
Webster Ave. and Fitchburg Railroad bridge. . . .	1	—	—	—

NUMBER AND LOCATION OF INCANDESCENT LAMPS.

LOCATION.	No.	LOCATION.	No.
Adams Street	3	Elm Street	2
Albion Street	1	Emerson Street	1
Allen Street	2	Everett Avenue	3
Appleton Street	2	Everett Street	1
Arlington Street	1	Evergreen Avenue	1
Auburn Avenue	2	Elm Place	1
Austin Street	1	Fairmount Avenue	1
Autumn Street	1	Fitchburg Street	1
Avon Street	2	Flint Street	1
Arthur Street	1	Florence Street	3
Beach Street	3	Forster Street	1
Beacon Street	2	Franklin Avenue	1
Belmont Street	4	Franklin Street	4
Benedict Street	1	Fremont Avenue	1
Bonair Street	5	Frost Avenue	1
Bond Street	2	Garden Court	2
Boston Street	2	George Street	1
Bow-Street Place	1	Gilman Street	5
Bowdoin Street	2	Glen Street	2
Bradford Avenue	1	Grand View Avenue	1
Broadway	5	Granite Street	1
Broadway Place	1	Green Street	2
Cedar Street	3	Hall Street	1
Central Street	8	Hamlet Street	2
Chauncey Avenue	1	Hanson Street	2
Cherry Street	3	Harris Street	1
Chestnut Court	1	Harvard Street	2
Chestnut Place	1	Heath Street	2
Chester Street	2	High Street	2
Clarendon Avenue	1	Hillside Avenue	1
Claremon Street	2	Hillside Park	1
Concord Avenue	1	Homer Square	1
College Avenue	2	Houghton Street	1
Craigie Street	1	Howe Street	1
Crescent Street	1	Hathorn Street	1
Cross Street	1	Irving Street	3
Curtis Street	3	Ivaloo Street	2
Cutter Street	2	James Street	1
Clark Street	1	Jenny Lind Avenue	1
Cook Street	1	Jaques Street	4
Dana Street	3	Joy Street	3
Dane Court	2	Joseph Street	1
Dane Street	2	Kent Street	1
Dover Street	1	Kent Court	2
Day Street	1	Kingman Court	1
Dickinson Street	1	Lake Street	4

NUMBER AND LOCATION OF INCANDESCENT LAMPS. — *Concluded.*

LOCATION.	No.	LOCATION.	No.
Laurel Street	4	Prospect Avenue	3
Lincoln Street	1	Putnam Street	2
Linden Street	2	Prospect Place	1
Linden Avenue	4	Quincy Street	2
Line Street	5	Richdale Avenue	2
Loring Street	1	Runey Street	1
Lowell Street	4	Rush Street	2
London Street	1	Russell Street	1
Madison Street	3	Sargent Avenue	1
Maple Street	3	School Street	6
Maple Avenue	1	Sherman Street	1
Marshall Street	6	Skehan Street	1
Mason Avenue	1	Somerville Avenue	5
Meacham Street	1	South Street	1
Meade Street	1	Springfield Street	1
Medford Street	7	Spring Street	2
Miller Street	1	Stickney Avenue	2
Mills Street	3	Sunnyside Avenue	1
Montrose Street	4	Summer Street	5
Morgan Street	1	Sycamore Street	1
Morrison Street	2	Temple Street	3
Mt. Pleasant Street	2	Tenney Court	1
Mt. Vernon Street	2	Thorpe Place	2
Munroe Street	1	Thorndike Street	1
Murdock Street	2	Tufts Street	2
Mystic Avenue	1	Vernon Street	3
Myrtle Street	4	Vinal Avenue	4
Mystic Street	1	Vine Street	4
Oakland Avenue	1	Virginia Street	1
Oak Street	2	Wallace Street	1
Oliver Street	1	Walnut Street	7
Orchard Street	1	Warren Avenue	1
Otis Street	1	Warwick Street	2
Oxford Street	1	Washington Street	7
Park Avenue	2	Wesley Park	2
Park Street	3	Wheatland Street	2
Pearl Street	2	Webster Avenue	1
Pearl Place	1	Wigglesworth Street	1
Pembroke Street	1	Winter Street	1
Perkins Street	2	Wyatt Street	1
Perkins Place	1	Wellington Avenue	1
Pinckney Street	3	Wesley Street	1
Pitman Street	1		
Pleasant Avenue	1	OIL LAMPS.	
Poplar Street	1		
Preston Street	2	Boston Avenue	3

PROPERTY ON HAND JANUARY 1, 1892.

Lamp-posts	20
Lanterns	505 for four-foot burners.
Lanterns	4 for thirty-foot burners.
Lamp-boxes	8
Chimney-box	1
Burners (gas)	285
Blow torch	1
Lighter's torches	2

The lanterns are stored in the loft at the Bingham schoolhouse ; the other property at the city locker, corner of Glen street and Fountain avenue.

Respectfully submitted,

THOS. R. ROULSTONE,

Superintendent of Lights.

REPORT
OF THE
INSPECTOR OF MILK.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, December 30, 1891.

Accepted and referred to the next City Council, to be printed in the annual reports. Sent down for concurrence.

GEORGE I VINCENT, *Clerk.*

IN COMMON COUNCIL, December 30, 1891.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE INSPECTOR OF MILK, }
December 28, 1891. }

To His Honor the Mayor and Gentlemen of the City Council:—

I hereby make my report as inspector of milk and vinegar for the city of Somerville for the year beginning January 1st and ending December 31st, 1891.

Two hundred and thirty-eight (238) licenses have been issued to milk contractors, milk producers, and milkmen. Forty-two (42) registers have been given to storekeepers who sell milk, and twenty-two (22) licenses to dealers in oleomargarine, butterine, etc. For each license and register fifty (50) cents has been paid, and the city treasurer has received, for the three hundred and two (302) licenses and registers issued, one hundred and fifty-one dollars (\$151.00).

The average quality of milk has been very good. I have taken and tested two hundred and ten (210) samples, and have had occasion to give but very few notices that the milk was not up to a fair standard.

There seems to be a general wish among the milkmen of Somerville to deliver to their customers milk of the best quality.

Several milkmen have brought to the office samples of milk direct from the cars. These samples, if found poor when tested, as has been the case several times, have been returned to the contractors.

Very respectfully submitted,

THOMAS CUNNINGHAM,

Milk Inspector.

REPORT

OF THE

CITY SOLICITOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 24, 1892.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 25, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

February 24, 1892.

To the Honorable the Mayor and the City Council:—

I respectfully submit my report as city solicitor for the year ending December 31, 1891.

The following are the cases now pending in the courts, to which the city of Somerville is a party:—

1. *Parker vs. Somerville*—Before County Commissioners of Middlesex County. Damages on account of land alleged to have been taken for a sewer by the city.

2. *Squire vs. Somerville*—Before Superior Court in Middlesex County. Damages for conversion of box drain.

3. *Boston & Lowell Railroad Company vs. Somerville*—Before Superior Court in Middlesex County. Petition in regard to repairs and reconstruction of bridges across railroad location in Somerville and assessment of expenses thereof.

4. *Philbrook vs. Somerville*—Before United States Circuit Court. Action for damages for alleged violation of the Knibbs patent for a relief valve on steam fire-engines. This action was commenced May 20, 1887, and similar actions were brought against other cities. Somerville and the other defendant cities put their cases into the hands of Livermore & Fish, patent solicitors. At a hearing, November 14, 1888, the court decided for the defendant, and the appeal from that decision is still pending.

5. *Norwood vs. Somerville*—Before Superior Court in Middlesex County. Action for personal injuries alleged to have been received upon Cedar street, November 2, 1889.

6. *Kelly vs. Somerville*—Before Superior Court in Middlesex County. Action for personal injuries alleged to have been received upon Somerville avenue, November 25, 1890

7. *Brooks vs. Somerville*—Before Superior Court in Middlesex County. Action for personal injuries alleged to have been received upon Summer street, January 27, 1891.

8. *Williams vs. Somerville*—Before Superior Court in Middlesex County. Action for injuries alleged to have been caused to cattle July 3, 1891, by the agents of the State Board of Agriculture for the extermination of the gypsy moth.

9. *John F. Cole, Collector, vs. Charles H. North*—Before Superior Court in Suffolk County. Action for recovery of taxes.

The following cases have been disposed of:—

1. *Joslin vs. Cole et al.*—Before Superior Court in Middlesex County. Action for false arrest and imprisonment. Dismissed by the court.

2. *Knowles vs. Somerville*—Before Superior Court in Middlesex County. Damages on account of land alleged to have been taken by the city for a sewer. Dismissed by the court.

3. *Wanamaker vs. Somerville*—Before Superior Court in Middlesex County. Action for personal injuries alleged to have been received upon Broadway, February 6, 1887. Dismissed.

4. *Grover vs. Somerville*—Before Superior Court in Middlesex County. Action for personal injuries alleged to have been received on Union street. Dismissed by the court.

5. *Snow vs. Somerville*—Before Superior Court in Middlesex County. Action for personal injuries alleged to have been received upon Jaques street, February 15, 1890. Settled by payment of \$1,500 to the plaintiff.

6. *Riley vs. Somerville*—Before Superior Court in Middlesex County. Petition to enforce mechanic's lien on Concord-square schoolhouse. Dismissed.

7. *Metropolitan Sewer Commissioners vs. Somerville*—Before Supreme Judicial Court in Suffolk County. Petition for appointment of commissioners to assess expenses. Question raised as to constitutionality of act. Decision by court that act was constitutional.

It thus appears that the total amount expended by the city during the year on account of actions brought against it was \$1,500.

In most of the cases which came before the committee on claims the petitioners were given leave to withdraw, and as we have not heard from such cases since, I need not trouble you with a recital of them.

All of which is respectfully submitted,

S. Z. BOWMAN,

City Solicitor.

REPORT
OF THE
CITY CLERK.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1892.

Accepted and 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 27, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE CITY CLERK, }
January 27, 1892. }

To the Honorable the Mayor and the City Council :—

GENTLEMEN,—The following is respectfully submitted as the twentieth annual report of the City Clerk, and covers the year ending December 31, 1891 :—

CASH.

The receipts and payments were as follows :—

RECEIPTS.

Balance from year 1890, being for dog licenses issued in December, 1890,—			
1 male at \$2.00	\$2 00		
Less city clerk's fee paid to the city treasurer in December, 1890, 1 at .20	20		\$1 80
For dog licenses issued in 1891 :—			
1,126 males at \$2.00	\$2,252 00		
1 under Chap. 72, Acts of 1890, 2.00	2 00		
128 females at 5.00	640 00		2,894 00
			\$2,895 80
interest on deposits (credited on bank book)			10 06
<i>Amount carried forward</i>			\$2,905 86

<i>Amount brought forward</i>		\$2,905 86
recording mortgages, assignments, etc., 732 papers	\$446 75	
marriage certificates . 477 at \$0.50	238 50	
licenses :—		
to collect junk 37 at 2.00	74 00	
(apothecaries') to sell liquor, 23 at 1.00	23 00	
for billiard and pool tables (five licenses) 13 tables at 2.00	26 00	
to auctioneers 14 at 2.00	28 00	
for intelligence offices . 10 at 2.00	20 00	
to sell fireworks 53 at 1.00	53 00	
for amusements 46 at 1.00		
tent show one day . 1 at 50.00		
	96 00	
recording and posting naturalization notice 1 at .50	50	
furnishing copies of records	2 25	
		1,008 00
Total receipts		\$3,913 86

PAYMENTS.

To Joseph O. Hayden, county treasurer,
June 1, dog license fees, received
from Dec. 1, 1890, to May 31,
inclusive,—

480 males at \$2.00	\$960 00	
1 under Chap. 72, Acts of 1890, 2.00	2 00	
38 females at 5.00	190 00	
		\$1,152 00
Less city clerk's fees, 519 at .20	103 80	
<i>Amount carried forward</i>		\$1,048 20

<i>Amount brought forward</i>	.	.	.	.	.	\$1,048 20
Dec. 31, dog license fees received from June 1 to Nov. 30, inclusive,—						
641 males . at \$2.00		\$1,282	00			
90 females . at 5.00		450	00			
		<u> </u>		\$1,732	00	
less city clerk's fees, 731 at .20		\$146	20			
less amount in hands of receiver of Maverick National Bank		1,474	60			
		<u> </u>		1,620	80	
				<u> </u>		111 20
						<u> </u>
						\$1,159 40
To John F. Cole, city treasurer, monthly, city clerk's fees for issuing dog licenses, 1,255 at .20		\$251	00			
All of the "receipts" above speci- fied, except for dog licenses and credit for interest on deposits,		1,008	00			
		<u> </u>				1,259 00
						<u> </u>
Total payments						\$2,418 40

Balance January 1, 1892,
made up as follows:—

fees for dog licenses issued in December, 6 males . at \$2.00		\$12	00		
Less city clerk's fees paid to city treasurer 6 at .20		1	20		
<i>Amount carried forward,</i>		<u> </u>		\$10	80

<i>Amount brought forward</i>		\$10 80	
amount in hands of receiver of Maverick National Bank,—			
receipts for dog licenses, deposited between June 1 and Aug. 31, as above stated	\$1,474	60	
credit for interest on deposits		10 06	
		<u>1,484</u>	66
			<u>\$1,495 46</u>

I hold the receiver's certificate of proof of claim on the Maverick National Bank for \$1,484.66, as above. Of this amount the first dividend of forty per cent., amounting to \$593.86, was received January 19th, 1892, and paid to the county treasurer January 20th, leaving the balance in the receiver's hands at the date of this report \$890.80.

BIRTHS.

Number of births in Somerville in 1891 registered			1,156
More than previous year			219
Males		584	
Females		572	
		<u>1,156</u>	
Born of American parents		465	
“ “ foreign “		449	
“ “ American father and foreign mother		142	
“ “ foreign father and American mother		98	
“ “ parents of unknown nationality		2	
		<u>1,156</u>	
Number of cases of twins			20

MARRIAGES.

Number of intention certificates issued	477
More than previous year	43
Marriages registered	495
More than previous year	49
Both parties American	234
“ “ foreign	150
American groom and foreign bride	62
Foreign groom and American bride	49
	— 495 couples.
First marriage of	898
Second “ “	86
Third “ “	6
	— 495 couples.
Oldest groom aged	76
“ bride “	63
Youngest groom aged	18
“ bride “	16
Youngest couple aged,—	
Groom	19
Bride	16

DEATHS.

Number of deaths in Somerville in 1891	781
More than previous year	113
Males	358
Females	423
	— 781

Under 10 years of age	316	
Between 10 and 20 years of age	35	
" 20 " 30 " " "	55	
" 30 " 40 " " "	67	
" 40 " 50 " " "	48	
" 50 " 60 " " "	69	
" 60 " 70 " " "	69	
" 70 " 80 " " "	75	
" 80 " 90 " " "	41	
" 90 " 100 " " "	6	
	<hr/>	781
Age of oldest person deceased		94
Born in Somerville	290	
" " other places in the United States	311	
Of foreign birth	177	
Birthplace unknown	3	
	<hr/>	781
Number of deaths in January	71	
" " " " February	60	
" " " " March	60	
" " " " April	67	
" " " " May	56	
" " " " June	58	
" " " " July	89	
" " " " August	65	
" " " " September	61	
" " " " October	67	
" " " " November	55	
" " " " December	72	
	<hr/>	781
The number of still-births recorded during the year was		33

The causes of death may be found in the report of the Board of Health.

VOTERS.

MEN'S LISTS.

WARD.	PRECINCT.	December 1, 1890.	Added in Sept.	Total.	Revised Lists of Oct. 1.	Added in Oct.	Nov. 2.	Added in Nov.	Dec. 1.	Voted Nov. 3.	Voted Dec. 8.
Ward 1 . . .	Precinct 1 . .	306	-	306	269	42	311	2	313	268	209
" 1 . . .	" 2 . . .	317	2	319	278	47	325	10	335	277	215
" 1 . . .	" 3 . . .	317	-	317	284	37	321	3	324	273	217
" 1 . . .	" 4 . . .	362	1	363	264	69	333	8	341	281	269
		1,302	3	1,305	1,095	195	1,290	23	1,313	1,099	910
Ward 2 . . .	Precinct 1 . .	417	1	418	365	74	439	5	444	394	307
" 2 . . .	" 2 . . .	442	1	443	398	77	475	4	479	421	320
" 2 . . .	" 3 . . .	252	1	253	191	64	255	2	257	227	176
" 2 . . .	" 4 . . .	334	2	336	274	91	365	5	370	328	219
" 2 . . .	" 5 . . .	296	-	296	239	70	309	2	311	285	213
		1,741	5	1,746	1,467	376	1,843	18	1,861	1,655	1,235
Ward 3 . . .	Precinct 1 . .	391	4	395	350	82	432	6	438	378	268
" 3 . . .	" 2 . . .	324	2	326	281	62	343	2	345	318	214
" 3 . . .	" 3 . . .	425	-	425	389	78	467	3	470	399	298
" 3 . . .	" 4 . . .	210	-	210	194	77	271	5	276	242	179
		1,350	6	1,356	1,214	299	1,513	16	1,529	1,337	959
Ward 4 . . .	Precinct 1 . .	315	1	316	275	53	328	12	340	293	233
" 4 . . .	" 2 . . .	231	1	232	191	42	233	5	238	214	141
" 4 . . .	" 3 . . .	259	-	259	210	46	256	6	262	231	186
" 4 . . .	" 4 . . .	358	2	360	319	66	385	10	395	344	267
		1,163	4	1,167	995	207	1,202	33	1,235	1,082	827
City . . .	. . . . .	5,556	18	5,574	4,771	1,077	5,848	90	5,938	5,173	3,931

WOMEN'S LISTS.

WARD.	PRECINCT.	Dec. 1, 1890.	Revised Lists of Nov. 2.	Added in November.	December 1.	Voted December 8.
Ward 1	Precinct 1	4	3	2	5	3
" 1	" 2	10	8	1	9	1
" 1	" 3	8	5	-	5	-
" 1	" 4	1	-	-	-	-
		23	16	3	19	4
Ward 2	Precinct 1	19	17	9	26	11
" 2	" 2	14	13	1	14	4
" 2	" 3	2	1	-	1	-
" 2	" 4	3	2	-	2	-
" 2	" 5	2	2	1	3	1
		40	35	11	46	16
Ward 3	Precinct 1	4	4	-	4	-
" 3	" 2	18	13	1	14	-
" 3	" 3	15	15	5	20	1
" 3	" 4	5	5	1	6	1
		42	37	7	44	2
Ward 4	Precinct 1	7	3	3	6	4
" 4	" 2	4	3	1	4	1
" 4	" 3	5	4	1	5	3
" 4	" 4	13	9	2	11	7
		29	19	7	26	15
City . . . . .	. . . . .	134	107	28	135	37

WAR RECORDS.

Our city has no record of the services rendered by its citizen soldiers and sailors in the late war. Such a record should, in my opinion, be prepared, and without further delay, as the longer the work is postponed the more difficult it will be to obtain the necessary information. I, therefore, recommend that early measures be taken to provide such a record.

GEORGE I. VINCENT,

City Clerk.

CITY GOVERNMENT AND OFFICERS FOR 1892.

CITY GOVERNMENT AND OFFICERS FOR 1892.

MAYOR.

WILLIAM H. HODGKINS,
188 Central Street.

BOARD OF ALDERMEN.

CHARLES B. OSGOOD, *President*.

WARD ONE.

S. WALKER JANES 142 Washington Street.
EDRIC ELDRIDGE 88 Pearl Street.

WARD TWO.

FRANK E. FITTS 17 Pleasant Avenue.
WARREN J. ROBINSON 11 Greene Street.

WARD THREE.

CHARLES B. OSGOOD 71 Gilman Street.
WILLIAM L. BARBER 36 Marshall Street.

WARD FOUR.

WILLIAM A. HUNNEWELL 9 Mason Avenue.
NEWELL F. CASWELL 49 Cherry Street.

CLERK.

GEORGE I. VINCENT.

COMMON COUNCIL.ISAIAH H. WILEY, *President.*

WARD ONE.

ISAIAH H. WILEY	54 Mt. Vernon Street.
JOSEPH A. BARTLETT	64 Cross Street.
HERBERT E. MERRILL	44 Florence Street.
LEWIS STOCKBRIDGE	33 Pinckney Street.

WARD TWO.

JAMES W. BEAN	40 Columbus Avenue.
FRANKLIN J. HAMBLIN	30 Walnut Street.
MICHAEL E. FLYNN	1 Tremont Place.
FRED W. GILBERT	101 School Street.

WARD THREE.

THOMAS S. WENTWORTH	350 Broadway.
LEWIS B. HOLLIS	476 Broadway.
JOHN ANDREWS	34 Albion Street.
CALVIN H. WHITNEY	158 Pearl Street.

WARD FOUR.

FRANKLIN F. PHILLIPS	211 Holland Street.
CHARLES A. G. WINTHER	408 Highland Avenue.
FRANKLIN E. HUNTRESS	318 Elm Street.
J. WILLARD JONES	217 Beacon Street.

CLERK.

CHARLES S. ROBERTSON.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

ACCOUNTS. — Aldermen Osgood, Robinson; Councilmen Hamblin, Merrill, Jones.

CITY ENGINEERING. — Aldermen Barber, Osgood; Councilmen Flynn, Jones, Bartlett.

CLAIMS. — His Honor the Mayor; Alderman Hunnewell; the President of the Common Council; Councilmen Hollis, Hamblin.

FINANCE. — His Honor the Mayor; Aldermen Fitts, Janes; the President of the Common Council; Councilmen Hamblin, Phillips, Wentworth, Stockbridge.

FIRE DEPARTMENT. — Aldermen Fitts, Caswell; Councilmen Bean, Bartlett, Andrews.

FUEL AND STREET LIGHTS. — Aldermen Robinson, Eldridge; Councilmen Huntress, Whitney, Merrill.

HIGHWAYS. — Aldermen Barber, Janes; Councilmen Winther, Andrews, Flynn.

LEGISLATIVE MATTERS. — His Honor the Mayor; Alderman Osgood; the President of the Common Council; Councilmen Bean, Phillips.

ORDINANCES. — Aldermen Hunnewell, Osgood; Councilmen Stockbridge, Gilbert, Huntress.

PRINTING. — Aldermen Janes, Hunnewell; Councilmen Huntress, Whitney, Bean.

PUBLIC GROUNDS. — Aldermen Eldridge, Fitts; Councilmen Winther, Hollis, Bartlett.

PUBLIC PROPERTY. — Aldermen Hunnewell, Eldridge; Councilmen Wentworth, Phillips, Gilbert.

SOLDIERS' RELIEF. — Aldermen Caswell, Janes; Councilmen Wentworth, Stockbridge, Gilbert.

WATER. — Aldermen Caswell, Osgood; the President of the Common Council; Councilmen Hollis, Hamblin.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

ELECTIONS. — Aldermen Robinson, Eldridge, Osgood.

ENROLLED ORDINANCES. — Aldermen Barber, Fitts, Hunnewell.

LICENSES. — Aldermen Eldridge, Barber, Robinson.

POLICE. — His Honor the Mayor; Aldermen Fitts, Hunnewell.

SEWERS. — Aldermen Osgood, Robinson, Caswell.

STATE AID. — Aldermen Janes, Robinson, Barber, Caswell.

SPECIAL BUILDING PERMITS. — Aldermen Barber, Fitts.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS.— Councilmen Whitney, Winther, Flynn.

ENROLLED ORDINANCES AND RESOLUTIONS.— Councilmen Jones, Merrill, Andrews.

SCHOOL COMMITTEE.

WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.

ISAIAH H. WILEY, President of the Common Council, *ex officio*.

(Term, three years.)

WARD ONE.

S. NEWTON CUTLER (elected 1891).

HORACE C. WHITE, M. D. (elected 1889).

SANFORD HANSCOM, M. D. (elected 1890).

WARD TWO.

JAMES F. BEARD (elected 1889).

THOMAS M. DURELL, M. D. (elected 1890).

ALVAH B. DEARBORN, M. D. (elected 1891).

WARD THREE.

NORMAN W. BINGHAM (elected 1891).

QUINCY E. DICKERMAN (elected 1889).

HELEN J. SANBORN (elected 1890).

WARD FOUR.

GILES W. BRYANT, M. D. (elected 1889).

MARTIN W. CARR (elected 1890).

BENJAMIN G. BROWN (elected 1891).

CLARENCE E. MELENEY, *Superintendent and Secretary*.

ASSESSORS.

(Term, three years.)

BENJAMIN F. THOMPSON (term expires 1893).

GEORGE W. HADLEY (term expires 1894).

SAMUEL T. RICHARDS (term expires 1895).

ASSISTANT ASSESSORS.

(Term, one year.)

WARD ONE.

JOSHUA H. DAVIS (resigned May 25).

EDWARD G. WISWELL (elected May 27).

WARD TWO.

WILLIAM A. FLAHERTY.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

HARRY A. TRUE.

BOARD OF HEALTH.

(Term : Physician, three years ; other members, two years.)

J. FRANK WELLINGTON, Chairman (term expires 1893).

CHARLES H. CRANE (term expires 1894).

ALVAH B. DEARBORN, M. D. (term expires 1895).

Clerk, WILLIAM P. MITCHELL.*Agent*, CALEB A. PAGE.

OVERSEERS OF THE POOR.

Office, Police Building, Bow Street.

WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.

(Term, four years.)

CHARLES G. BRETT (term expires 1893).

EDWARD B. WEST (term expires 1895).

JAMES G. HINCKLEY (term expires 1896).

NATHAN H. REED (term expires 1894).

Agent, CHARLES C. FOLSOM.*Secretary*, FRANK W. KAAAN.**SOMERVILLE MYSTIC WATER BOARD.**

Office, Prospect Street, corner Somerville Avenue.

(Term, three years.)

GEORGE D. WEMYSS (term expires 1894),
5 Austin Street.ALBION A. PERRY (term expires 1893),
366 Broadway.GEORGE A. KIMBALL (term expires 1895),
5 Munroe Street.NATHANIEL DENNETT, *Supt. Water Works*.FRANK E. MERRILL, *Clerk*.**REGISTRARS OF VOTERS.**

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

CROMWELL G. ROWELL, Chairman (term expires 1894).

CHARLES P. LINCOLN (term expires 1895).

WILLIAM B. HAWES (term expires 1893).

GEORGE I. VINCENT, *City Clerk*.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN, Chairman (term expires 1894).

WILLIAM E. WELD, Secretary (term expires 1893).

JAMES E. WHITAKER (term expires 1893).

JOHN B. VIALL (term expires 1893).

J. HENRY FLITNER (term expires 1895).

CHRISTOPHER E. RYMES (term expires 1894).

ELIJAH C. CLARK (term expires 1895).

CHARLES H. BROWN (term expires 1894).

CHARLES A. WEST (term expires 1895).

HARRIET A. ADAMS, *Librarian.*

CITY OFFICERS.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

GEORGE I. VINCENT.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE.

MESSENGER TO CITY COUNCIL.

JAIRUS MANN.

CITY SOLICITOR.

SELWYN Z. BOWMAN.

CITY AUDITOR.

CHARLES S. ROBERTSON.

CITY ENGINEER.

HORACE L. EATON.

SUPERINTENDENT OF STREETS.

THOMAS H. EAMES.

INSPECTOR OF BUILDINGS AND SUPERINTENDENT OF
PUBLIC BUILDINGS AND LIGHTS.

THOMAS R. ROULSTONE.

CHIEF OF POLICE.

MELVILLE C. PARKHURST.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

JAMES R. HOPKINS.

SUPERINTENDENT OF ELECTRIC LINES.

JAMES R. HOPKINS.

CITY PHYSICIAN.

ALVAH B. DEARBORN, M. D.

INSPECTOR OF MILK AND VINEGAR.

THOMAS CUNNINGHAM.

INSPECTOR OF PROVISIONS AND OF ANIMALS INTENDED
FOR SLAUGHTER.

D. WARNER DANFORTH.

CLERK OF COMMITTEES.

WILLIAM P. MITCHELL.

CLERK OF ASSESSORS.

ALBERT B. FALES.

Suitable Person to Cause to be Properly Interred the Bodies of
Honorably Discharged Soldiers, Sailors, and Marines,
Under Chapter 395, Acts of 1889.

JESSE J. UNDERHILL.

CONSTABLES.

JAIRUS MANN.	WILLIAM D. HAYDEN.
ROBERT R. PERRY.	SAMUEL R. DOW.
CHARLES C. FOLSOM.	JOSEPH J. GILES.
EDWARD MCGARR.	GEORGE CULLIS.
CHRISTOPHER C. CAVANAGH.	DENNIS KELLEY.
EUGENE A. CARTER.	CHARLES L. ELLIS.
CLARENCE TUCKER.	

FIELD DRIVERS.

CHRISTOPHER C. CAVANAGH.	CHARLES S. THRASHER.
GEORGE H. CARLETON.	GEORGE W. BEAN.
JOHN E. FULLER.	CHARLES L. ELLIS.
JACOB W. SKINNER.	JOHN G. KNIGHT.
THEODORE E. HERON.	

FENCE VIEWERS.

LAMBERT M. MAYNARD.	AMMIEL COLMAN.
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POUND KEEPER.

CHARLES A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

AMMIEL COLMAN, 34 Marshall Street.

MEASURER OF WOOD AND BARK.SAMUEL T. LITTLEFIELD.

MEASURER OF GRAIN.JOHN CRAIG.

PUBLIC WEIGHER IN CHARGE OF CITY SCALES, UNION SQUARE.FULTON O'BRION.

WEIGHERS OF COAL.

JOHN CRAIG.	D. WARNER DANFORTH.
GEORGE K. WALCOTT.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	C. C. WOOLEY.
G. E. SLACK.	EDWARD L. DUNNING.
GEORGE E. NEWCOMB.	WILLIAM I. NEWCOMB.

WEIGHERS OF HAY AND STRAW.

JOHN CRAIG.	THADDEUS HARRINGTON.
CHARLES A. TUCKER.	C. C. WOOLEY.
G. E. SLACK.	EDWARD L. DUNNING.

WEIGHERS OF BEEF.

D. WARNER DANFORTH.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	GEORGE K. WALCOTT.
C. C. WOOLEY.	G. E. SLACK.

WEIGHERS OF BOILERS AND HEAVY MACHINERY.

THADDEUS HARRINGTON.	CHARLES H. TUCKER.
GEORGE K. WALCOTT.	C. C. WOOLEY.
	G. E. SLACK.

UNDERTAKERS.

WILLIAM A. FLAHERTY.	PATRICK H. RAFFERTY.
EDWARD H. MARSH.	THOMAS J. BARKER.
ALFRED E. MANN.	PATRICK RAFFERTY.
HORACE D. RUNEY.	WILLIAM A. FRINK.
JOHN DUCEY.	GEORGE F. MCKENNA.
EDWARD MCCAFFREY.	

POLICE DEPARTMENT.

MELVILLE C. PARKHURST, *Chief.*

ROBERT R. PERRY, <i>Captain.</i>	SAMUEL R. DOW, <i>Sergeant.</i>
EDWARD MCGARR, <i>Sergeant.</i>	CHRIS. C. CAVANAGH, <i>Sergeant.</i>
DENNIS KELLEY, <i>Sergeant.</i>	PHINEAS W. SKINNER.
JOHN E. FULLER.	SAMUEL A. BROWN.
ALBION L. STAPLES.	JOHN HAFFORD.
JUDSON W. OLIVER.	GEORGE A. BODGE.
GEORGE W. BEAN.	THEODORE E. HERON.
GEORGE L. SMITH.	GEORGE H. CARLETON.
EDWARD M. CARTER.	HUBERT H. MILLER.
JOHN F. JOHNSON.	FRANCIS A. PERKINS.
EUGENE A. CARTER.	CHARLES S. THRASHER.
EDWARD E. HAMBLEN.	WILLIAM H. JOHNSON.
CHARLES E. WOODMAN.	JOHN G. KNIGHT.
ARTHUR E. KEATING.	JACOB W. SKINNER.
STEPHEN S. SMITH.	DAVID A. BOLTON.
GEORGE T. E. COLES.	JAMES M. HARMON.
EUGENE H. GAMMON.	MICHAEL T. KENNEDY.
IRA S. CARLTON.	EZRA A. DODGE.
CHARLES W. STEVENS.	ULYSSES G. SKINNER.
MELVILLE C. PARKHURST, <i>Lock-up Keeper.</i>	

MEETINGS.

BOARD OF ALDERMEN.

Second and fourth Wednesday evenings of each month.

COMMON COUNCIL.

Thursday evenings following the second and fourth Wednesdays of each month.

SCHOOL COMMITTEE.

Last Monday evening of each month.

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