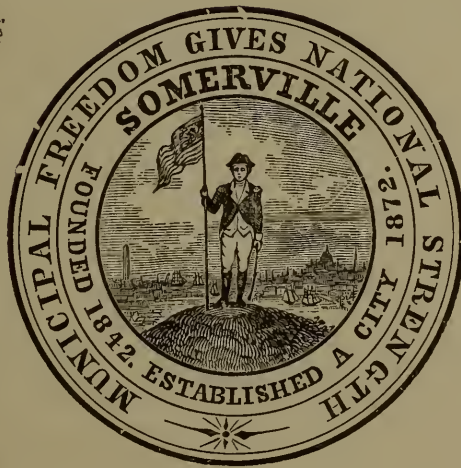


CITY OF SOMERVILLE

ANNUAL REPORTS.



1881.

SOMERVILLE, MASS.:

SOMERVILLE JOURNAL PRINT.

1882.

ADDRESS OF MAYOR CUMMINGS.

INAUGURAL ADDRESS OF
HON. JOHN A. CUMMINGS.

DELIVERED JAN. 3, 1881.

GENTLEMEN OF THE CITY COUNCIL:

IN accordance with the wish of our fellow-citizens, expressed at the recent municipal election, we have this day taken upon ourselves the responsibility of conducting the affairs of our growing city for the ensuing year. Grateful for this evidence of the esteem of our fellow-men, let us endeavor to merit the confidence bestowed by a conscientious and faithful discharge of the several duties placed in our hands.

One of the most important subjects for our care and consideration is that of our city's

FINANCES.

From the Treasurer's forthcoming report, I am able to present the following nearly exact statement of our financial condition.

The funded debt of the city is as follows: —

City debt	\$1,250,000 00
Water debt	335,000 00
Total	\$1,585,000 00
Less sinking funds	253,000 00
Net funded debt	\$1,332,000 00

To this liability must be added at least \$26,000, excess of expenditures over appropriations in the year past, making the net indebtedness of the city at this time \$1,358,000.

The net debt of this city one year ago, as given by the City Treasurer, was \$1,408,000, made up as follows: —

Funded debt	\$1,387,000 00
Deficiency account	21,000 00
Total	\$1,408,000 00

This amount has been reduced during the past year by contributions to the sinking funds, and interest on the same, \$55,000. The deficiency account one year ago was \$21,000; at this time it is \$26,000, showing a net reduction in the debt during the year past of \$50,000.

The temporary loans amount to \$210,000; and there is due the city on account of taxes, assessments, and from other sources, the same amount, less the deficiency of \$26,000 already noted.

The assessors' valuation of the taxable property in the city in 1880 was \$20,458,100, which I believe is generally considered a reasonable, if not a low valuation. It is a decrease of nearly eleven millions from the valuation of 1875, the highest point reached during the days of inflation. That the valuation of the assessors is generally considered fair and just is evidenced by the few appeals taken from their decision, and that in the cases appealed only slight abatements have been made in two or three instances during the past four years.

The total value of the public property of the city, including \$341,000 for the water works, is \$1,121,400. Last year the amount raised by taxation was \$402,927.71. Unless the current expenses of the different departments can be reduced, this amount will have to be increased this year. By a statute of the State, cities and towns are required to provide for the deficit of previous years in the levy for the next; and if the appropriations of last year for current expenses were not sufficient to cover the expenditures by \$26,000, we must not only add that sum to the levy for this year, but also another like sum, to prevent a recurrence of the same deficiency, unless we can in some way reduce the current expenses by that amount.

No unusual expenditure is impending except the building of the school-house already begun upon Highland Avenue, unless you should think best to begin the construction of another one on the lot of land owned by the city upon Tufts Street, in Ward One.

SCHOOLS.

The schools of our city are now as heretofore under the charge of a most competent board, and rank among the best in the State.

The rapid increase in the number of scholars has made it difficult to provide suitable school-room accommodations in some sections of the city, but this difficulty is being remedied as fast as our financial condition will allow.

The whole number of schools at the present time is eighty-two, classified as follows: One high school, forty-six grammar, and thirty-five primary. There are in the high school two hundred and forty-five pupils; in the grammar schools, two thousand and seventy-two; and in the primary schools, one thousand nine hundred and nineteen: making a total of four thousand two hundred and thirty-six pupils. Ninety-two teachers are employed, including one instructor in music.

The amount appropriated for schools in 1880 was \$80,000. By the laws of the State, the responsibility for the care and management of our schools is placed in the hands of a separate board; and though it will be our desire to make the best possible record in the matter of economy, we must remember that the School Board are accountable to their constituents for the conduct of the affairs of their department, and not to us more than to any other citizens. It is our duty to appropriate for the support of schools whatever sum the School Board may deem necessary.

PUBLIC LIBRARY.

The value of our public library is yearly increasing, and its usefulness and importance as an educator and never-failing source of moral and mental improvement, as well as healthful amusement for young and old, cannot be too highly estimated. Additional accommodations are required, both for the storing of books, and the accommodation of the public who desire to effect or consult works of reference. I would repeat the recommendation of my predecessor two years since, that an extension be made to the east end of the City Hall building, one story in height, for the temporary use of the library until such time as the city shall be in condition to erect a new building suitable to its requirements. The opportunity, spoken of by my predecessor, for some public-spirited citizen to connect his name with a benefaction which shall keep

him in pleasant remembrance for years to come, still remains open. Our library has never been favored with any bequest or fund outside of the regular city appropriation.

The whole number of books in the library is 8,189. During the past year 67,895 have been used, and only three have been lost. Valuable books of reference have been added, such as the History of Middlesex County, Genealogies and Estates of Charlestown, Memorial History of Boston, Encyclopædia Britannica, etc.

HIGHWAYS.

Our public ways are in excellent condition throughout the city, with the single exception of Somerville Avenue, which is greatly in need of substantial repairs. During the past year, by an arrangement with the Fitchburg Railroad, the gravel land at Waltham has been opened, and gravel, pronounced by competent judges to be of excellent quality for our use, is being delivered by the railroad mentioned at reasonable rates.

In the opinion of the last city government, the care of watering the streets should be placed in the hands of the Committee on Highways, and the appropriation usually made for this purpose disbursed under their direction.

By a mutual arrangement between the city and the Lowell Railroad, a new and handsome bridge has been constructed over the latter road at Medford Street, the city paying \$5,000 towards its cost. Consultations have also been held with the authorities of the same road in regard to the construction of a safer and more convenient bridge at its School Street crossing. It is with you to say whether efforts to secure its final accomplishment shall be continued.

Economy requires that our streets receive constant attention. Slight defects should be remedied at once. We thereby not only save the heavy outlay required for the entire rebuilding of a street after it has been for a long time neglected, but guard against liability in case of accidents. This seems to have been the wise policy pursued by our predecessors; for according to data furnished me by the City Solicitor, in only one instance during the past five years has a suit for damages for injuries received upon the high-

ways resulted in a verdict against the city. In three or four cases, small amounts have been paid in settlement of suits before trial. It is a record which speaks well for those who have been charged with the care of our sixty to sixty-five miles of streets.

SEWERS.

The demand for sewers during the past year has been such as to cause an expenditure in excess of the appropriation, and still leave many petitions for their construction to be referred to this City Council. The total length of new sewers built during 1880 was one and three fourths miles, and one sewer four hundred and ninety-nine feet in length was rebuilt. There are now a little over thirty miles of sewers laid in the city, and their construction must be continued, not only for the comfort and convenience of residents, but in many cases as a necessity for the health of our inhabitants. Wherever the water works are introduced, sewers must soon follow.

WATER.

The proposed modification of the contract for the supply of Mystic water to our city, which was accepted by the City Council of 1879, has not been ratified by the City Council of Boston, and the situation remains the same as last year, when it was so ably and carefully discussed in the inaugural address of my predecessor. Although the modification proposed would return some six thousand dollars annually, more than is now received, to the city treasury, there is evidently a difference of opinion as to its wisdom; for our sister city of Chelsea, situated exactly as we are, has thus far declined to accept it. By reason of this failure on the part of Chelsea, the subject has not been acted upon by the City Council of Boston. It might be well to place the further consideration of the matter in the hands of a special committee.

The works in our city are under the efficient management of the Somerville Mystic Water Board.

FIRE DEPARTMENT.

This department is in good condition, and will require little outlay beyond the usual running expenses during the coming year.

The apparatus consists of one steam fire engine, five hose carriages, and one hook-and-ladder truck, all of which are reported to be in good condition, — unless it be the engine, the machinery of which is said to be somewhat worn. The force of the department consists of the chief and assistant engineer, and sixty-nine men. The appropriation for this department last year was \$20,000, and the expenditures about \$800 in excess of that amount.

The fire-alarm telegraph is an important adjunct to the department. It consists of twenty-three miles of wire, twenty-six alarm boxes, battery, gongs, etc. It is cared for by the permanent men of the fire department without expense for labor, and the cost of supplies for its maintenance during the past year was \$437.

POLICE.

The police force of our city is regarded as in good condition, and an efficient body for the purposes for which it is employed. The appropriation for its support last year was \$22,500, and of this sum a balance of \$200 remains unexpended.

POOR DEPARTMENT.

The duties of the Overseers of the Poor have been humanely and faithfully performed. \$13,000 were appropriated for the support of this department last year. In addition to this sum, \$2,417 were received from other towns and cities. The total expenditures amounted to \$16,698. There is now due the department from other towns and cities \$947, and about \$350 worth of fuel and groceries are on hand.

SOLDIERS' RELIEF.

One thousand dollars was appropriated for this purpose last year, and of this sum nearly one half remains unexpended. Somerville has always maintained a reputation for jealous care over the welfare of her patriotic sons, a reputation which all desire to see sustained, and lifted still higher if possible.

HEALTH DEPARTMENT.

For the past three years the mortality rate in our city has been much lower than during the previous six years, a result which is

owing in a great degree to the intelligent and systematic labors of our Board of Health. The management of this department since it was placed under the control of a separate board, in 1878, has been such as to commend itself to all who have noted and understood the work accomplished. Wherever a case of diphtheria or scarlet fever occurs, the inspector of the board makes a careful examination of the sanitary condition of the dwelling and surrounding premises. In many cases the direct cause of the disease is discovered. The board reports that in every house where diphtheria has occurred, whenever the suggestions and directions given have been carried out, no subsequent cases have been reported. This disease is one that may be almost if not entirely prevented by cleanliness and proper sanitary regulations. It can be traced in many cases to defective plumbing and imperfect drainage. The board have recently adopted rules and regulations which, if properly enforced, will do much to secure perfect drainage and ventilation in buildings hereafter constructed; but in houses already occupied they have been slow to interfere, except where sickness has occurred. Our citizens should take advantage of the services of this board, and request the assistance of the inspector in any case where they have reason to believe their own or the health of others may be in danger. The cause of disease will often be discovered by one experienced in its detection, where others would not suspect its existence.

Along the western and northerly sections of our city an alarming nuisance has been created, by the emptying of sewage into Alewife Brook and the lower Mystic Lake. The city of Cambridge has entered three large sewers into Alewife Brook, draining a large area, some portions of which are thickly populated. The sewage has been deposited along the banks of the brook, and has accumulated to such an extent as to create a nuisance dangerous to the lives and health of residents in that vicinity. During the past summer, several cases of sickness are believed to have been caused by the offensive odors arising from the deposits of sewage along the banks of this brook. Our Board of Health have sent complaints relating to this matter to the city of Cambridge and State Board of Health. The latter body disclaims any authority to act

in the matter. Cambridge has during the past year considered the subject of constructing a sewer along the brook, taking up all the sewage now emptied therein and conducting it to Charles River. Some immediate remedy for the present condition of the brook should be devised, if possible, as even at this season of the year the noisome smell arising from the valley is a source of offence to travellers passing over Broadway to and from Arlington.

The emptying of sewage into the lower Mystic Lake has made that basin an immense cesspool, and the banks of Mystic River along the low marshes at the northern extremity of our city are reeking with filth. Though this source of danger is more threatening to our neighbors of Medford and Arlington, being mostly within their territory, yet it is of such importance to our city as to demand our attention, and cause us to unite with those towns in any effort that may be made for its removal.

GENTLEMEN OF THE CITY COUNCIL: —

It cannot be expected that within the limits of a brief address, a full knowledge of the condition and wants of our city can be communicated. The duties of your several positions will require that you give time and attention to the consideration of all questions affecting the prosperity of our municipality, and especially to those relating to the departments with which you may be immediately connected. Our first duty is economy. The money of the city should be expended with the same prudence and care exercised in the management of private affairs. While it is obligatory upon us to promote the material welfare of the city by providing for the support of schools, for the protection of life and property, for the comfort and convenience of good streets, sidewalks, street lights, pure water, and all necessary health-securing measures, it is our duty to accomplish all this with the least possible outlay of money. It falls to our lot to pay a debt instead of contracting one; and the realization of the ease with which obligations may be incurred, in comparison with the difficulty of liquidating them, especially in the case of cities and towns, is an experience by which we should profit. A public debt is not a public blessing; and believing this, we are annually reducing ours. Our debt was incurred for improve-

ments of great value and importance to the prosperity of the city, and the comfort and convenience of its inhabitants; and while we do not question the wisdom of the outlays, we realize to-day that a larger portion of the cost should have been met at the time the improvements were made.

Our city possesses great advantages as a place of residence, and evidences of renewed prosperity and growth are seen on every hand. By a wise and judicious administration of its public affairs during the coming year, we may contribute to its continued advancement. Let us endeavor to serve its interests with wisdom, fidelity, and zeal, appreciating fully the responsibility resting upon us, and remembering at all times that while occupying our present positions we are the servants of the people, intrusted by them with arduous and important labors.

TREASURER'S
NINTH ANNUAL REPORT
OF THE
FINANCIAL CONDITION
OF THE
CITY OF SOMERVILLE.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 8, 1882.

Report received and referred to the Committee on Finance, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Jan. 10, 1882.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

IN COMMITTEE ON FINANCE, Feb. 4, 1882.

To the City Council of Somerville:

The Committee on Finance, to whom was referred the annual report of the Treasurer and Collector of Taxes for the year ending Dec. 31, 1881, respectfully report that they have carefully examined the same in connection with the books, warrants, and vouchers in the Treasurer's office, and compared his report and books with the books and accounts of the Auditor and the several committees, and have found them to be accurate in every particular. We desire to express our great satisfaction with the remarkably neat, careful, and faultless manner in which the accounts of our retiring Treasurer and Collector have been kept; and recommend that his report be accepted.

For the Committee,

MARK F. BURNS, *Chairman.*

IN BOARD OF MAYOR AND ALDERMEN, Feb. 8, 1882.

Report accepted, adopted, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 8, 1882.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

TREASURER'S OFFICE, Jan. 10, 1882.

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

GENTLEMEN, — The undersigned presents herewith his tenth annual report as treasurer of this city.

The value of the public property at the close of the year 1880, as appears by the report for that year, was \$1,121,400; and the accessions thereto in 1881, as valued by the Committee on Public Property, were: For Highland School House, land, and furniture, \$33,000; and additional for Lincoln School House and for furniture, \$600, — making the value of the public property Dec. 31, 1881, \$1,155,000.

The funded debt of the city remains at \$1,585,000, the loans maturing during the past year having been provided for by the issue and disposal of new bonds.

The assets of the city available for the payment of its unfunded liabilities are: Taxes, \$166,020.68; real-estate liens, \$2,007.30; sewer assessments, \$7,470.26; sidewalk assessments, \$1,534.58; water-service assessments, \$836.83; highway betterment assessments, \$1,945.26; public-park betterment assessments, \$786.91; State of Massachusetts, on State Aid and Indigent Soldiers and Sailors accounts, \$5,659.50; and cash, \$14,321.76, — a total of \$200,583.08.

The unfunded liabilities are: Temporary loans, \$190,000; sundry persons, \$1,047.60; overplus on tax sales, \$67; public park, \$351.32; and Overlay and Abatement account, \$49.62, — a total of \$191,515.54. Excess of available assets over unfunded liabilities, \$9,067.54.

The tax levy for 1881 was on a valuation of \$22,569,100, at \$19.50 on \$1,000 valuation; and 6,424 polls at \$2.00 each, — amounting to \$452,945.45.

The appropriations for the year (provided for by tax levy) and the expenses were:—

	<i>Appropriation.</i>	<i>Expended.</i>
Fire Department	\$21,500 00	\$21,887 08
Health Department	2,800 00	2,519 60
Highways	32,000 00	30,552 86
Indigent Soldiers and Sailors	1,000 00	1,008 00
Interest	74,000 00	
Expended over and above \$9,526.52, received from the State as bank and corporation taxes		62,981 23
Miscellaneous	6,500 00	
Expended over and above \$525 00, received for liquor licenses		5,115 95
Police	22,500 00	
Expended over and above \$1,419.40, received from the Police Court as officers' fees		22,161 60
Police Station Incidentals	2,300 00	1,527 78
Public Library	1,200 00	
Expended over and above \$927.13, received from the county on dog licenses		1,231 66
Public Park Maintenance	1,200 00	1,540 91
Salaries	16,400 00	16,759 35
School Contingent	8,700 00	8,917 90
School Fuel	3,300 00	3,797 07
School-House (Lincoln) on Clarendon Hill	3,000 00	3,897 52
School-House on Highland Avenue	18,000 00	
Expended over and above \$7,166.72, credit balance from account 1880		18,462 54
School-House repairs	7,000 00	6,042 79
School Teachers' Salaries	62,000 00	62,136 15
Sewers	8,000 00	9,105 52
Sidewalks	2,000 00	1,711 57
Sinking Fund Contributions	45,525 00	45,525 00
Soldiers' Relief	1,000 00	896 25
Street Lights	7,500 00	7,537 33
Support of Poor	14,000 00	14,097 25
Watering Streets	4,000 00	
Expended over and above \$2,810.05, received from abutters		3,372 45
Water Maintenance	18,500 00	
Expended over and above \$14,697.37, received from the city of Boston, return on water rates		13,465 53

Excess and Deficiency of 1880	\$26,603 94	\$26,603 94
State of Massachusetts, State Tax	23,160 00	23,160 00
County of Middlesex, County Tax	11,638 19	11,638 19
Overlay and Abatement	7,618 32	
applied, and to be applied, to abatements on taxes		7,618 32
Totals	<u>\$452,945 45</u>	<u>\$435,271 34</u>

Excess of appropriations over current expenses \$17,674 11

Abatements were made the past year, in accordance with a verdict of jury, on assessments laid to defray, in part, the cost of laying out Chauncy Avenue, amounting to \$1,917 45 to which add sums charged off and paid in adjustments of disclaimers and surrenders of tax titles, found to be invalid by reason of error in assessments or sale, amounting to 6,689 12

Making an aggregate of 8,606 57
And leaving the net sum of \$9,067 54

to the credit of Excess and Deficiency account at the close of the year, to be appropriated to such purposes as the present City Council may determine.

The financial condition of the city, aside from the public property, is : —

Funded Debt	\$1,585,000 00
Excess of available assets over unfunded liabilities	9,067 54
Leaving net	<u>\$1,575,932 46</u>
The amount of the Sinking Funds, as per report of the Commissioners, is	312,263 59
And the net debt of the city, Dec. 31, 1881	<u>\$1,263,668 87</u>
The gross cash receipts for the year, including the bal- ance from the year 1880, were	\$1,189,881 85
And the gross cash disbursements	<u>1,175,560 09</u>
Leaving in the treasury the sum of	\$14,321 76

Respectfully submitted,

AARON SARGENT, *Treasurer.*

APPENDIX TO TREASURER'S REPORT.

Table A.

PUBLIC PROPERTY, DEC. 31, 1881.

Central Hill Land (12 acres, 27,920 feet),		\$100,000 00
City Hall,	\$10,000 00	
Furniture,	3,000 00	
		13,000 00
Public Library,		8,500 00
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	
		16,500 00
High School House,	\$40,000 00	
Furniture,	3,500 00	
Philosophical Apparatus,	500 00	
		44,000 00
Prescott School House Land (21,444 feet) and Building,	\$40,000 00	
Furniture,	2,000 00	
		42,000 00
Luther V. Bell School House Land (23,396 feet) and Building,	\$40,000 00	
Furniture,	3,000 00	
		43,000 00
<i>Amount carried forward,</i>		\$267,000 00

<i>Amount brought forward,</i>		\$267,000 00
Forster School House Land (32,693 feet) and Building,	\$40,000 00	
Furniture,	1,500 00	
	<hr/>	41,500 00
Morse School House Land (29,109 feet) and Building,	\$25,000 00	
Furniture,	1,000 00	
	<hr/>	26,000 00
Highland School House Land (23,260 feet) and Building,	\$32,000 00	
Furniture,	1,000 00	
	<hr/>	33,000 00
Lincoln School House Land (17,662 feet) and Building,	\$8,200 00	
Furniture,	300 00	
	<hr/>	8,500 00
Prospect Hill School House Land (25,- 313 feet) and Building,	\$20,000 00	
Furniture,	600 00	
	<hr/>	20,600 00
Jackson School House Land (11,212 feet) and Building,	\$8,000 00	
Furniture,	300 00	
	<hr/>	8,300 00
Bennett School House Land (20,560 feet) and Building,	\$8,000 00	
Furniture,	300 00	
	<hr/>	8,300 00
Webster School House Land (11,050 feet) and Building,	\$8,000 00	
Furniture,	300 00	
	<hr/>	8,300 00
Union School House Land (9,360 feet) and Building,	\$2,500 00	
Furniture,	100 00	
	<hr/>	2,600 00
<i>Amount carried forward,</i>		<hr/> \$424,100 00

<i>Amount brought forward,</i>		\$424,100 00
Harvard School House Land (9,810 feet) and Building,	\$2,500 00	
Furniture,	100 00	
	<hr/>	2,600 00
Elderly School House Land (26,428 feet) and Building,	\$25,000 00	
Furniture,	500 00	
	<hr/>	25,500 00
Brastow School House Land (10,019 feet) and Building,	\$6,000 00	
Furniture,	250 00	
	<hr/>	6,250 00
Franklin School House Land (33,017 feet) and Building,	\$14,000 00	
Furniture,	300 00	
	<hr/>	14,300 00
Beach Street School House Land (6,000 feet) and Building,	\$4,500 00	
Furniture,	250 00	
	<hr/>	4,750 00
Spring Hill School House Land (4,991 feet) and Building,	\$1,600 00	
Furniture,	100 00	
	<hr/>	1,700 00
City Farm Land (10 acres, 12,523 feet),		30,000 00
Cedar Street School House,	\$700 00	
Furniture,	100 00	
	<hr/>	800 00
City Stables and Dwelling Houses,		7,000 00
Equipments for Highway Repairs,		3,000 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
<i>Amount carried forward,</i>		<hr/> \$527,000 00

<i>Amount brought forward,</i>		\$527,000 00
No. 2 Hose House Land (5,400 feet)		
and Building,	\$7,500 00	
Furniture,	300 00	
Winter Hill Hose Carriage		
and Apparatus,	2,000 00	
	<hr/>	9,800 00
No. 3 Hose House Land (5,226 feet)		
and Building,	\$9,000 00	
Furniture,	300 00	
Geo. 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	
Geo. O. Brastow Hose Car-		
riage and Apparatus,	2,000 00	
Relief Hose Carriage,	600 00	
	<hr/>	14,000 00
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
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 Hill Land (10,890 feet),		1,000 00
Elm Street Land (18,000 feet),		3,600 00
	<hr/>	
<i>Amount carried forward,</i>		\$761,500 00

<i>Amount brought forward,</i>	\$761,500 00
Ledge Land on Bond Street (39,732 feet),	2,500 00
Holland Street (5 a., 6,806 feet),	12,000 00
Somerville Avenue (39,456 feet),	5,000 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
Somerville Water Works (cost \$342,- 608.76),	341,000 00
Tufts Street Land (29,584 feet),	5,000 00
Oliver Street Land (63,069 feet),	7,500 00
	<hr/>
Total value of Public Property,	\$1,155,000 00
	<hr/> <hr/>

Table B.

FUNDED DEBT, DECEMBER 31, 1881.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
1872.				1882.		
April 1,	City,	1,	6½	April 1,	17,500	\$17,500
July 1,	"	3 & 4,	"	July 1,	5,000	10,000
"	"	5 & 6,	"	"	10,000	20,000
"	Water,	12,	"	"	50,000	50,000
"	"	13,	"	"	40,000	40,000
"	City,	8 & 10,	"	"	10,000	20,000
"	"	9,	"	"	5,000	5,000
"	"	11 & 12,	"	Oct. 1,	5,000	10,000
1874.						
Oct. 1,	Sidewalk,	10,	"	"	10,000	10,000
1880.				1883.		
Oct. 1,	City,	349,	5	Oct. 1,	36,500	36,500
"	Water,	36,	"	"	7,500	7,500
1881.				"		
April 1,	City,	353 to 372,	"	"	1,000	20,000
1874.				1884.		
April 1,	City,	49,	6½	April 1,	10,000	10,000
"	"	52 to 54,	"	"	5,000	15,000
"	"	55,	"	"	2,000	2,000
"	"	57 & 60,	"	"	10,000	20,000
1872.						
July 1,	"	7,	5½	July 1,	20,000	20,000
1874.						
July 1,	"	66,	6½	"	2,000	2,000
"	"	67,	"	"	5,000	5,000
"	"	72 to 79,	"	"	5,000	40,000
"	Water,	16 to 18,	"	"	5,000	15,000
1872.						
Oct. 1,	City,	13,	6	Oct. 1,	6,000	6,000
"	"	14 to 17,	"	"	5,000	20,000
1874.						
Oct. 1,	"	80 to 86,	6½	"	5,000	35,000
"	"	87 to 96,	"	"	5,000	50,000
"	"	98,	"	"	5,000	5,000
"	"	99,	"	"	2,500	2,500
"	"	100,	"	"	1,000	1,000
"	"	101 to 103,	"	"	3,000	9,000
"	"	104,	"	"	1,000	1,000
"	"	105,	"	"	2,000	2,000
"	"	106 to 111,	"	"	5,000	30,000
"	"	116,	"	"	3,000	3,000
"	"	117 to 121, 123 to 142,	"	"	5,000	125,000
"	"	147 to 156,	"	"	5,000	50,000
1877.						
Oct. 1,	Water,	32,	5	Oct. 1,	5,000	5,000
1878.				1885.		
Jan. 1,	City,	337,	"	Jan. 1,	5,000	5,000
1876.						
April 1,	"	188,	5½	April 1,	4,500	4,500
1879.						
April 1,	"	342,	5	"	6,000	6,000
1880.						
Oct. 1,	"	350,	"	"	6,000	6,000
1881.						
Oct. 1,	"	413,	"	"	6,000	6,000
1875.				1885.		
July 1,	Water,	19 to 22,	6	July 1,	5,000	20,000
"	City,	157,	"	"	4,000	4,000
"	"	158,	"	"	3,000	3,000
"	"	159,	"	"	5,000	5,000
"	"	160 to 162,	"	"	5,000	15,000
"	"	163 to 174,	"	"	5,000	60,000
	<i>Amount</i>	<i>carried forward</i>	.....	.....	.....	\$854,500

Table B.—Continued.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
	<i>Amount</i>	<i>brought forward</i>	.....	.....	.....	\$854, 00
1876.				1886.		
April 1,	City,	175 to 182,	5½	April 1,	5,000	40,000
"	"	183 to 185,	"	"	5,000	15,000
"	"	186,	"	"	5,000	5,000
"	"	187,	"	"	1,000	1,000
"	Water,	23 to 27,	"	"	10,000	50,000
"	"	28,	"	"	5,500	5,500
1880.				1887.		
Oct. 1,	"	37 to 45,	5	Oct. 1,	1,000	9,000
1881.						
April 1,	City,	373 to 412,	"	"	1,000	40,000
Oct. 1,	"	416,	"	"	500	500
"	"	417 to 422,	"	"	1,000	6,000
1889.						
Jan. 1,	Water,	57 to 65,	"	Jan. 1,	1,000	9,000
1880.						
Oct. 1,	"	46 to 54,	"	Oct. 1,	1,000	9,000
"	"	55,	"	1890.		
"	"			Oct. 1,	9,000	9,000
1881.				1892.		
Jan. 1,	"	66 to 76,	"	Jan. 1,	1,000	11,000
Oct. 1,	"	78 to 88,	"	Oct. 1,	1,000	11,000
"	"	89 to 99,	"	1893.		
"	"			Oct. 1,	1,000	11,000
"	"	100 to 111,	"	1894.		
"	"			Oct. 1,	1,000	12,000
1878.				1895.		
Jan. 1,	City,	335,	"	Jan. 1,	37,000	37,000
"	"	336,	"	"	1,000	1,000
"	"	338,	"	"	2,000	2,000
1879.						
Jan. 1,	Water,	34,	"	"	25,000	25,000
"	City,	339,	"	"	12,000	12,000
"	"	340,	"	"	1,500	1,500
"	"	341,	"	"	1,500	1,500
1880.						
Jan. 1,	"	346,	"	"	2,000	2,000
"	"	347,	"	"	1,000	1,000
"	"	348,	"	"	5,500	5,500
1876.						
April 1,	"	189,	5½	April 1,	35,500	35,500
Oct. 1,	"	190 to 194,	5	"	5,000	25,000
"	"	195 to 334,	"	"	1,000	140,000
1879.						
April 1,	"	343,	"	"	4,000	4,000
Oct. 1,	"	344,	"	"	8,000	8,000
"	"	345,	"	"	25,000	25,000
1880.						
Oct. 1,	"	351,	"	"	1,000	1,000
"	"	352,	"	"	42,500	42,500
1881.						
Oct. 1,	"	414,	"	"	45,000	45,000
"	"	415,	"	"	1,000	1,000
1876.				1896.		
July 1,	Sewer,	1 to 7,	"	July 1,	5,000	35,000
1877.				1904.		
Oct. 1,	Water,	33,	"	Oct. 1,	5,000	5,000
1879.				1905.		
Jan. 1,	"	35,	"	Jan. 1,	5,000	5,000
1876.						
April 1,	"	29,	5½	April 1,	4,500	4,500
1880.						
Oct. 1,	"	56,	5	"	5,500	5,500
1881.				1905.		
Oct. 1,	Water,	77,	"	April 1,	6,000	6,000
1876.				1906.		
July 1,	"	30 and 31,	5½	July 1,	5,000	10,000
	<i>Total</i>	<i>Funded Debt.....</i>	.....	.....	.....	\$1,535,000

Table C.

STATEMENT OF ACCOUNTS, SHOWING APPROPRIATIONS,
RECEIPTS, EXPENDITURES, ETC., TO DEC. 31, 1881.

APPROPRIATIONS.

	Credit.
TAXES, amount assessed for current expenses,	\$410,528 94
PROPERTY and DEBT BALANCE, appropriated in 1881,	158,500 00
	<u>\$569,028 94</u>
	Debit.
FIRE DEPARTMENT,	\$21,500 00
HEALTH DEPARTMENT,	2,800 00
HIGHWAYS,	32,000 00
INDIGENT SOLDIERS AND SAILORS,	1,000 00
INTEREST,	74,000 00
MISCELLANEOUS,	6,500 00
POLICE,	22,500 00
POLICE STATION INCIDENTALS,	2,300 00
PUBLIC LIBRARY,	1,200 00
PUBLIC PARK MAINTENANCE,	1,200 00
RENEWALS OF FUNDED DEBT,	158,500 00
SALARIES,	16,400 00
SCHOOL CONTINGENT,	8,700 00
SCHOOL FUEL,	3,300 00
SCHOOL-HOUSE (LINCOLN) ON CLARENDON HILL,	3,000 00
SCHOOL-HOUSE ON HIGHLAND AVENUE,	18,000 00
SCHOOL-HOUSE REPAIRS,	7,000 00
SCHOOL TEACHERS' SALARIES,	62,000 00
SEWERS,	8,000 00
SIDEWALKS,	2,000 00
SINKING FUND CONTRIBUTIONS,	45,525 00
SOLDIERS' RELIEF,	1,000 00
STREET LIGHTS,	7,500 00
SUPPORT OF POOR,	14,000 00
WATERING STREETS,	4,000 00
WATER MAINTENANCE,	18,500 00
EXCESS AND DEFICIENCY (1880),	26,603 94
	<u>\$569,028 94</u>

CASH.

Credit.

COUNTY OF MIDDLESEX,	\$11,638 19
FIRE DEPARTMENT,	22,124 48
FUNDED DEBT,	158,500 00
HEALTH DEPARTMENT,	2,519 60
HIGHWAYS,	35,087 71
HIGHWAYS (CHAUNCEY AVENUE),	110 65
INDIGENT SOLDIERS AND SAILORS,	2,016 00
INTEREST,	84,554 98
LIQUOR LICENSES,	175 00
MISCELLANEOUS,	6,777 40
OVERLAY AND ABATEMENT,	196 00
OVERPLUS ON TAX SALES,	75 00
POLICE,	23,581 00
POLICE STATION INCIDENTALS,	1,880 78
PUBLIC LIBRARY,	2,892 83
PUBLIC PARK,	385 93
PUBLIC PARK MAINTENANCE,	1,549 91
RECALLED TAX TITLES,	1,810 65
SALARIES,	16,759 35
SCHOOL CONTINGENT,	9,027 90
SCHOOL FUEL,	3,797 07
SCHOOL-HOUSE (LINCOLN) ON CLARENDON HILL,	3,897 52
SCHOOL-HOUSE ON HIGHLAND AVENUE,	25,629 26
SCHOOL-HOUSE REPAIRS,	6,665 29
SCHOOL TEACHERS' SALARIES,	62,136 15
SEWERS,	18,428 11
SIDEWALKS,	3,473 34
SINKING FUND CONTRIBUTIONS,	45,525 00
SOLDIERS' RELIEF,	896 25
STATE AID,	4,796 50
STATE OF MASSACHUSETTS,	23,160 00
STREET LIGHTS,	7,633 33
SUNDRY PERSONS,	621 00
SUPPORT OF POOR,	16,075 72
<i>Amount carried forward,</i>	<u>\$604,397 90</u>

<i>Amount brought forward,</i>	\$604,397 90
TEMPORARY LOANS,	530,000 00
WATERING STREETS,	6,182 50
WATER MAINTENANCE,	32,939 04
WATER SERVICES,	2,040 65
	<hr/>
	\$1,175,560 09
BALANCE, to debit in account of 1882,	14,321 76
	<hr/>
	\$1,189,881 85

	Debit.	
BALANCE, from 1880,	\$7,448 50	
FIRE DEPARTMENT,	237 40	
FUNDED DEBT,	158,500 00	
HIGHWAYS,	2,523 15	
HIGHWAY BETTERMENT ASSESSMENTS,	1,091 39	
INTEREST,	22,286 14	
LIQUOR LICENSES,	700 00	
MISCELLANEOUS,	1,051 60	
OVERPLUS ON TAX SALES,	11 00	
POLICE,	1,419 40	
POLICE STATION INCIDENTALS,	353 00	
PUBLIC LIBRARY,	1,161 95	
PUBLIC PARK MAINTENANCE,	9 00	
REAL-ESTATE LIENS,	7,515 53	
RECALLED TAX TITLES,	126 17	
SCHOOL CONTINGENT,	110 00	
SCHOOL-HOUSE REPAIRS,	622 50	
SEWERS,	378 60	
SEWER ASSESSMENTS,	9,334 21	
SIDEWALK ASSESSMENTS,	894 74	
STATE OF MASSACHUSETTS, — INDIGENT		
SOLDIERS AND SAILORS,	1,151 00	
STATE OF MASSACHUSETTS, — STATE AID,	4,441 25	
STREET LIGHTS,	96 00	
SUPPORT OF POOR,	1,978 47	
TAXES,	432,264 67	
TEMPORARY LOANS,	510,000 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$1,165,705 67	\$1,189,881 85

<i>Amounts brought forward,</i>	\$1,165,705 67	\$1,189,881 85
WATERING STREETS,	2,810 05	
WATER MAINTENANCE,	18,729 58	
WATER SERVICES,	329 26	
WATER-SERVICE ASSESSMENTS,	2,307 29	
		<u>\$1,189,881 85</u>

COUNTY OF MIDDLESEX.

Credit.

TAXES, amount assessed for county tax,	\$11,638 19
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Debit.

CASH, paid county tax,	\$11,638 19
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EXCESS AND DEFICIENCY.

Credit.

APPROPRIATIONS, for deficit of 1880,	\$26,603 94
HEALTH DEPARTMENT, credit balance of account,	280 40
HIGHWAYS, " " " "	1,447 14
INTEREST, " " " "	11,018 77
MISCELLANEOUS, " " " "	1,384 05
POLICE, " " " "	338 40
POLICE STATION INCIDENTALS, credit balance of account,	772 22
SCHOOL-HOUSE REPAIRS, credit balance of ac- count,	957 21
SIDEWALKS, credit balance of account,	288 43
SOLDIERS' RELIEF, credit balance of account,	103 75
WATERING STREETS, " " " "	627 55
WATER MAINTENANCE, " " " "	5,034 47
	<u>\$48,856 33</u>

Debit.

BALANCE, from 1880,	\$26,603 94
FIRE DEPARTMENT, debit balance of ac- count,	387 08
<i>Amounts carried forward,</i>	<u>\$26,991 02</u> <u>\$48,856 33</u>

<i>Amounts brought forward,</i>	\$26,991 02	\$48,856 33
HIGHWAYS (CHAUNCEY AVENUE), debit balance of account,	1,917 45	
INDIGENT SOLDIERS AND SAILORS, debit balance of account,	8 00	
PUBLIC LIBRARY, debit balance of account,	31 66	
PUBLIC PARK MAINTENANCE, debit balance of account,	340 91	
RECALLED TAX TITLES, debit balance of account,	6,689 12	
SALARIES, debit balance of account,	359 35	
SCHOOL CONTINGENT, debit balance of account,	217 90	
SCHOOL FUEL, debit balance of account,	497 07	
SCHOOL-HOUSE (LINCOLN) ON CLARENDON HILL, debit balance of account,	897 52	
SCHOOL-HOUSE ON HIGHLAND AVENUE, debit balance of account,	462 54	
SCHOOL TEACHERS' SALARIES, debit balance of account,	136 15	
SEWERS, debit balance of account,	1,105 52	
STREET LIGHTS, debit balance of account,	37 33	
SUPPORT OF POOR, debit balance of account,	97 25	
	<hr/>	
	\$39,788 79	
BALANCE, to credit in account of 1882,	9,067 54	
	<hr/>	
		\$48,856 33
		<hr/> <hr/>

FIRE DEPARTMENT.

Credit.

APPROPRIATIONS, amount assessed,		\$21,500 00
CASH, received of James R. Hopkins, amount received by him for wheels and old junk,	\$46 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$46 00	\$21,500 00

<i>Amounts brought forward,</i>	\$46 00	\$21,500 00
Manure,	52 00	
J. A. Chabot, amount received by him for old boiler,	85 00	
H. Wellington & Co., amount of bill approved and paid a second time,	54 40	
	<hr/>	237 40
		<hr/>
		\$21,737 40
EXCESS AND DEFICIENCY, balance to debit of account,		387 08
		<hr/>
		\$22,124 48

Debit.

CASH, paid James R. Hopkins, chief engineer,	\$1,000 00	
N. C. Barker, assistant engineer,	400 00	
Theophilus Cunningham, clerk to chief engineer,	8 32	
J. T. Cummings, clerk to chief engineer,	41 67	
Steamer Engine Co.,	781 00	
John E. Wool Hose Co.,	693 50	
Winter Hill Hose Co.,	687 25	
Geo. H. Foster Hose Co.,	706 00	
Geo. O. Brastow Hose Co.,	706 00	
R. A. Vinal H. & L. Co.,	1,062 25	
Steamer engineer,	900 00	
Steamer fireman,	780 00	
Seven drivers,	5,460 00	
Henry A. Angier, substitute driver,	158 17	
J. Frank Walker, " "	127 77	
City of Boston, water for hydrants,	1,428 00	
Water rates,	110 00	
N. Tufts & Son, grain,	577 34	
J. L. Crafts, hoisting tackle,	20 74	
	<hr/>	
<i>Amounts carried forward,</i>	\$15,648 01	\$22,124 48

<i>Amounts brought forward,</i>	\$15,648 01	\$22,124 48
Hunneman & Co., repairs,	61 50	
Cook, Rymes & Co., “	19 31	
Seward Dodge, blacksmithing,	147 40	
David W. Crocker, repairs,	7 75	
Edward O'Brien, horse-shoeing,	36 25	
Geo. McDormand, “	41 24	
J. W. Gerry, “	10 76	
Chas. Maguire, “	20 05	
Horatio Wellington & Co., fuel,	428 15	
Hewey Skillings & Co., hay,	31 83	
W. M. Hadley, “	73 95	
Favor & Dudley, “	146 81	
Hosmer, Crampton & Hammond, hay,	750 29	
J. F. Brine, hay, Lime and cement,	10 09 7 45	
Ingalls & Kendrick, heating ap- paratus,	439 22	
T. B. Wilson, harness work,	78 97	
A. W. Lothrop, “ “	8 00	
N. L. Pennock, “ “	1 50	
R. McAleer, “ “	73 50	
Fred Belanger, “ “	1 50	
C. E. Berry, “ “	103 00	
F. Ivers, “ “	14 00	
J. Leland, wheelwright work,	60 05	
M. G. Crane & Co., telegraph ma- terials,	150 47	
Charles Williams, Jr., telephone materials,	24 34	
J. A. & W. Bird & Co., vitriol, etc.,	46 88	
Thomas Hollis, “	28 59	
Burt & Henshaw, “	187 86	
E. Badger & Son, copper, etc.,	15 53	
<i>Amounts carried forward,</i>	\$18,674 25	\$22,124 48

<i>Amounts brought forward,</i>	\$18,674 25	\$22,124 48
E. B. Vannevar, copper, etc.,	8 15	
Abiel Pevey, callaud zincs,	139 53	
Boston Nickel Plating Co., plating, etc.,	6 00	
J. E. Parsons, plumbing, etc.,	14 35	
J. A. Durell, “	7 18	
J. F. Davlin, “	19 81	
H. W. Raymond, hardware, etc.,	52 83	
W. L. Snow, “	17 88	
C. Holmes & Son, “	81 69	
Enoch Robinson, butts and bolts,	34 00	
Bishop & Brother, ladders, etc.,	20 50	
American Fire Hose Co., hose, etc.,	980 74	
Pierce & Griswold, indicator,	100 00	
Albert Caswell, carpenter work,	135 38	
Elijah Walker, “ “	78 99	
R. A. Stevens, “ “	8 75	
J. H. Stevens, “ “	1 75	
Patrick Kiley, mason work,	43 37	
S. W. Fuller, lumber,	30 24	
E. D. Sawyer & Co., lumber,	120 93	
Leander Greeley, doors,	14 00	
J. P. Sampson, calking floors,	9 25	
E. Teel & Co., plank,	51 82	
Jeremiah McCarthy, stone,	7 50	
T. F. Crimmings, sand,	2 50	
W. E. Mellish, keys,	1 70	
John Kennedy, blacking,	74 98	
David Cutter, repairing badges,	1 50	
F. L. Chapman, painting,	20 00	
J. Q. Twombly, “	37 78	
Thomas McIntire, Jr., painting,	3 00	
C. H. Tufts, “	60 00	
J. C. Dyer & Co., painting and glazing,	10 75	
<i>Amounts carried forward,</i>	<u>\$20,871 10</u>	<u>\$22,124 48</u>

<i>Amounts brought forward,</i>	\$20,871 10	\$22,124 48
J. H. Hollis, glazing,	2 00	
M. R. Warren, stamps,	5 00	
E. J. Burt, stationery,	3 62	
E. F. Chaffee, drugs,	6 82	
George H. Cowdin, drugs,	6 17	
Cambridge Gas Light Co., gas,	181 80	
Charlestown Gas Co., " "	89 25	
B. O. & G. C. Wilson, medicine,	4 00	
Union Glass Co., battery jars, etc.,	78 60	
M. A. Smith, window shades,	10 50	
Flynn Brothers, " "	4 50	
W. C. Crane, premium of insurance,	50 00	
Reed & Brother, " "	12 50	
C. Bennett & Son, " "	30 00	
Daniel Webster Engine Co., re- freshments,	10 00	
Geo. F. Roach & Co., furniture,	5 87	
Leavens & Trefrey, chairs,	4 50	
Highways account, brick and pav- ing,	36 00	
E. A. Gillett, wheels,	50 00	
J. R. Hopkins, expenses attending convention,	50 00	
M. Davis & Son, soap,	8 75	
T. Spelman, " "	8 00	
R. Warner & Co., brushes,	5 50	
O. F. Howe, brooms,	2 50	
Jas. Boyd & Sons, fire hats,	82 50	
H. A. Winship, hat front,	1 25	
S. Walker & Co., oil,	75 01	
Speare, Gregory & Co., oil,	2 15	
H. J. Hall & Co., " "	2 50	
Haskell & Adams, " "	8 82	
G. & C. Hollis, cans,	14 00	
<i>Amounts carried forward,</i>	<u>\$21,723 21</u>	<u>\$22,124 48</u>

<i>Amounts brought forward,</i>	\$21,723 21	\$22,124 48
Sherburne & Co., oiler,	1 17	
James Bartley, naphtha, etc.,	18 66	
Howe & Flint, drain pipe, etc.,	3 20	
J. F. Towle, brooms, salt, etc.,	2 27	
George T. Sears, salt,	1 50	
N. Harding & Co., badges,	26 25	
H. W. Burgess, supplies,	3 59	
E. W. Ring, “	3 50	
C. B. Horton, labor,	5 75	
Wm. F. Burke, “	3 00	
W. H. Whitcomb, “	1 50	
Chabot & Lorentzen, repairing hose,	5 75	
Boston Flexible Metallic Packing Co., packing material,	1 00	
W. J. London, expressing,	3 10	
E. R. Perham, “	1 80	
Stilphen & Co., “	2 55	
Thorpe's Express, “	13 80	
North Cambridge Express Co., ex- pressing,	90	
George T. Day, expressing,	1 60	
Lewis Putnam, veterinary services,	14 00	
Stephen Day, “ “	2 50	
W. Schuebeler, bedding, etc.,	27 41	
Boston Ice Co., ice,	6 00	
H. D. & W. S. Durgin, ice,	20 00	
Mrs. Calvert, washing,	34 52	
S. H. Stevens, “	24 01	
Thomas H. Daley, “	21 74	
E. J. Brown, “	4 06	
Mary A. Brown, “	8 13	
C. M. Howard, “	20 01	
Murdock Parlor Grate Co., horse stalls,	41 50	
<i>Amounts carried forward,</i>	\$22,047 98	\$22,124 48

<i>Amounts brought forward,</i>	\$22,047 98	\$22,124 48
M. D. Jones & Co., lawn mower,	14 00	
Charles Allen, rein snaps,	25 00	
J. O. Hayden & Co., printing,	37 50	
	<hr/>	\$22,124 48
		<hr/> <hr/>

FUNDED DEBT.

	Credit.	
BALANCE, from 1880,		\$1,585,000 00
CASH, received from sale of Bonds Nos.		
353 to 422, City Loan,	\$118,500 00	
Bonds Nos. 77 to 111, Water		
Loan,	40,000 00	
	<hr/>	158,500 00
		<hr/>
		\$1,743,500 00
		<hr/> <hr/>
	Debit.	
CASH, paid Town Loan		
Bonds Nos. 6 to 8,	\$23,500 00	
Sidewalk Loan Bond		
No. 9,	10,000 00	
Water Loan Bonds		
Nos. 8 to 11,	40,000 00	
School Loan Bonds		
Nos. 3 and 4,	85,000 00	
	<hr/>	\$158,500 00
BALANCE, to credit in account of 1882,	1,585,000 00	
	<hr/>	
		\$1,743,500 00
		<hr/> <hr/>

HEALTH DEPARTMENT.

	Credit.	
APPROPRIATIONS, amount assessed,		\$2,800 00
	Debit.	
CASH, paid Christopher Burke, remov-		
ing offal,	\$500 00	
Highways account, collecting		
ashes,	1,185 70	
	<hr/>	
<i>Amounts carried forward,</i>	\$1,685 70	\$2,800 00
		<hr/> <hr/>

<i>Amounts brought forward,</i>	\$1,685 70	\$2,800 00
W. H. Brine, inspector of Board of Health,	500 00	
George I. Vincent, clerk of Board of Health,	100 00	
Sundry persons, burying dead animals,	19 75	
P. W. Skinner, fumigating,	60 00	
Wm. H. Brine, “	51 00	
M. R. Warren, stationery,	27 75	
J. O. Hayden & Co., printing,	36 05	
Sturtevant Bros., sulphur,	2 04	
Chas. H. Crane, “	50	
Geo. E. Hanson, “	15	
Somerville Advertiser, advertising,	15 00	
Codman & Shurtleff, vaccine virus,	2 00	
Photo-Electrotype Co., maps,	9 00	
L. H. Brown, carriage hire,	5 00	
Maurice Buttimer, labor,	1 50	
M. J. Walsh, serving notices,	1 16	
F. J. Baxter, “ “	1 00	
J. E. Eldredge, “ “	2 00	
	<hr/>	
	\$2,519 60	
EXCESS AND DEFICIENCY, balance to credit of account,	280 40	
	<hr/>	\$2,800 00
		<hr/> <hr/>
HIGHWAYS.		
	Credit.	
APPROPRIATIONS, amount assessed,		\$32,000 00
CASH, received from J. P. Prichard, amount received by him for old iron,	\$2 80	
Pasturage,	60 00	
Health Department, collecting ashes, etc.,	1,185 70	
	<hr/>	
<i>Amounts carried forward,</i>	\$1,248 50	\$32,000 00

<i>Amounts brought forward,</i>	\$1,248 50	\$32,000 00
Arthur Moland, rent,	65 00	
Thomas Ormand, “	54 00	
Town of Wakefield, gravel,	55 50	
Watering Streets account, repair- ing and painting carts, etc.,	87 10	
Edwin Bowker, pasturage on Waltham gravel land in 1880,	40 00	
Charles Hale, constructing driveway,	7 00	
Charles H. North, “ “	7 00	
C. T. McGrath, “ “	10 00	
Perkins Street Baptist Church, constructing driveway,	15 10	
Loam and sods,	17 75	
Owen Cunningham, gravel,	4 40	
Charles A. Mongan, “	3 00	
M. W. Carr, “	3 00	
Sidewalks account, gravel and sand,	190 00	
Fire Department account, brick and paving,	36 00	
Geo. W. Prichard, stone,	15 00	
Sewers account, “	3 00	
Daniel Brooks, “	21 00	
School-House Repairs account, stone, etc.,	9 03	
School-House (Lincoln) on Claren- don Hill account, grading, etc.,	37 00	
Water Maintenance account, edge stones, filling material, etc.,	39 60	
School-House on Highland Avenue account, filling material,	100 00	
J. Milliken & Co., discount on bill paid,	5	
S. Pennock & Son, return on bill paid,	10 00	
<i>Amounts carried forward,</i>	<u>\$2,078 03</u>	<u>\$32,000 00</u>

<i>Amounts brought forward,</i>	\$2,078 03	\$32,000 00
H. A. Pratt, as amount received by him from abutters for the construction of sidewalks on Franklin Avenue, a private way,	445 12	
	<hr/>	2,523 15
HIGHWAY BETTERMENT ASSESSMENTS, assessments levied,		2,011 70
		<hr/>
		\$36,534 85

	Debit.	
CASH, paid laborers,	\$16,720 75	
John P. Prichard, Superintendent of Streets,	1,333 30	
C. E. Prichard, clerk to Super- intendent of Streets,	100 00	
Nathan Tufts & Son, grain,	759 73	
Knowles Brothers, grain, etc.,	648 60	
J. F. Ham, hay and straw,	929 59	
C. P. Ladd & Co., straw,	24 55	
Horatio Wellington & Co., fuel,	409 36	
S. M. Fuller, “	2 70	
Wood, Bailey & Wood, wheels, lum- ber, etc.,	200 92	
Cook, Rymes & Co., hammers, picks, etc.,	77 75	
J. P. Bacon, snow plough,	25 00	
Farrel Foundry and Machine Co., crusher plates, etc.	104 19	
Dodge, Gilbert & Co., bolts, rivets, etc.	32 98	
J. O. Hollis, horse powders,	1 00	
City of Boston, water rates,	49 00	
City of Boston, water for stone crusher,	36 50	
	<hr/>	
<i>Amounts carried forward,</i>	\$21,455 92	\$36,534 85

<i>Amounts brought forward,</i>	\$21,455 92	\$36,534 85
Town of Winchester, taxes on gravel land,	7 49	
Town of Wakefield, taxes on gravel land,	24 03	
Town of Waltham, taxes on gravel land,	129 20	
Thos. Powers, steel,	2 60	
Boyd & McClure, steel,	3 20	
Parker & Gannett, shovels, rakes, etc.,	140 18	
J. A. Cummings & Co., printing,	3 00	
J. O. Hayden & Co., " "	7 25	
Lewis Putnam, veterinary services,	46 00	
James E. Abbot, " "	58 00	
F. Dooris, blacksmithing,	91 20	
Fred. Belanger, " "	1 60	
H. G. Collins, " "	5 80	
Seward Dodge, " "	160 18	
W. W. Sawyer, " "	55 86	
Geo. McDormand, horse-shoeing,	147 09	
Edw. O'Brien, " "	88 00	
J. G. Harmon, " "	3 49	
J. W. Gerry, " "	30 94	
E. C. Andrews, " "	2 00	
A. T. Colburn, harness work,	80 03	
McDowell & Harts, " "	128 70	
James Forgie, " "	13 80	
N. L. Pennock, " "	4 00	
Jos. A. Pearson, " "	6 75	
S. E. Kimball, " "	50 00	
T. B. Wilson, " "	1 75	
Hill & Langtry, " "	94 52	
J. F. Clark, " "	18 15	
Robt. Sanborn, for land for Columbus Avenue,	1,931 75	
<i>Amount carried forward,</i>	<u>\$24,792 48</u>	<u>\$36,534 85</u>

<i>Amounts brought forward,</i>	\$24,792 48	\$36,534 85
S. Pennock & Sons, road machine,	150 00	
J. Leland, wheelwright work,	62 45	
Underhill Brothers, axe, etc.,	2 40	
W. L. Snow, pipe, etc.,	7 75	
John P. Squire & Co., salt,	3 25	
Chas. H. North & Co., “	2 54	
S. J. Wood, filing saws,	5 25	
Town of Medford, half cost of maintaining Middlesex Avenue bridge in 1880,	546 26	
H. A. Pratt, carriage hire,	4 00	
Barker & Tibbetts, expressing,	6 54	
E. R. Perham, “	1 75	
Welch & Griffiths, saw,	3 15	
John Milliken & Co., axle grease,	5 83	
Jos. Zane & Co., faucet,	3 25	
Stickney & Poor, ginger,	2 00	
James Rody, cutting grass,	20 00	
F. Alderman, breaking colt,	30 00	
Wm. U. Fairbairn, grate bars,	27 66	
Wm. H. Cushman & Co., cloth,	32	
Peabody & Whitney, brooms, etc.,	19 74	
O. S. Foster, brick,	471 00	
J. S. Nason, horses,	1,141 00	
John Turner & Co., paving stone, etc.,	2,536 71	
Middlesex Bleachery and Dye Works, ashes,	40 70	
Wesley C. Crane, premium of in- surance,	15 00	
Charles S. Robertson, premium of insurance,	102 50	
G. R. Emerson, granite,	16 25	
Osgood & Hart, castings,	6 40	
<i>Amounts carried forward,</i>	\$30,026 18	\$36,534 85

<i>Amounts brought forward,</i>	\$30,026 18	\$36,534 85
Densmore & Brackett, sash,	2 50	
Moore, Smith & Co., blankets, etc.,	49 00	
Henderson Brothers, runners, etc.,	95 00	
James H. Stubbs, cutting edge stone,	3 24	
C. H. Crane, drugs,	7 37	
Thomas Hollis, “	14 93	
William A. Muzzey, carpenter work,	2 85	
R. A. Melvin & Co., carpenter work,	61 12	
N. C. Barker, carpenter work,	10 00	
Hooper, Lewis & Co., stationery,	4 00	
M. R. Warren, “	14 90	
A. R. Gay & Co. “	5 75	
Boston and Providence Railroad Co., freight,	2 60	
Owners steamship “Norman,” freight,	8 66	
Geo. H. Sampson, powder,	25 10	
W. M. Hadley, lime, cement, etc.,	19 25	
Sewers account, setting stone bounds,	6 75	
Charles Holmes & Son, hardware, etc.,	19 50	
H. W. Raymond, hardware, etc.,	57 06	
S. W. Fuller, lumber,	476 22	
P. S. & J. B. Huckins, lumber,	234 73	
S. Walker & Co., oil,	5 04	
Speare, Gregory & Co., oil,	1 65	
Haskell & Adams, “	6 75	
Henry J. Hall & Co., “	15 45	
C. A. Small & Co., “	5 94	
Walworth Mfg. Co., glass tubes, etc.,	9 18	
<i>Amounts carried forward,</i>	\$31,190 72	\$36,534 85

<i>Amounts brought forward,</i>	\$31,190 72	\$36,534 85
White & Wiley, paint, etc.,	29 47	
C. H. Tufts, painting,	8 50	
T. F. Burbank, “	12 00	
Geo. W. Prichard, teaming stone and filling material,	1,240 60	
Jeremiah Kelliher, stone,	36 54	
Thomas Lord, gravel and filling material,	439 50	
Jeremiah McCarthy, teaming and stone,	172 58	
W. M. McLaughlin, filling material,	80 80	
Owen Cunningham, teaming,	608 00	
T. F. Crimmings, “	262 00	
Martin Gill, “	454 00	
Henry Gray, “	89 00	
Henry Foster, “	66 00	
M. A. Foster, “	38 00	
John McCarthy, “	15 00	
William Hamilton, “	42 00	
W. J. Rouse, “	3 00	
Douglass Frazar, clerk of Com- mittee on Highways,	300 00	
	<hr/>	
	\$35,087 71	
EXCESS AND DEFICIENCY, balance to credit of account,	1,447 14	
	<hr/>	
		\$36,534 85
		<hr/> <hr/>

HIGHWAYS (CHAUNCEY AVENUE).

Credit.

EXCESS AND DEFICIENCY, amount to debit of account, \$1,917 45

Debit.

HIGHWAY BETTERMENT ASSESSMENTS,

abated, \$1,806 80

Amounts carried forward, \$1,806 80 \$1,917 45

<i>Amounts brought forward,</i>	\$1,806 80	\$1,917 45
CASH, paid O. S. Knapp, costs of court in suit with Clark Bennett,	110 65	
	<hr/>	<hr/> <hr/>
		\$1,917 45

HIGHWAY BETTERMENT ASSESSMENTS.

Credit.

HIGHWAYS (CHAUNCEY AVENUE), abated,		\$1,806 80
CASH, received of sundry persons, assessments,		1,091 39
BALANCE, to debit in account of 1882,		1,945 26
		<hr/>
		\$4,843 45

Debit.

BALANCE, from 1880,	\$2,831 75	
HIGHWAYS, assessments levied,	2,011 70	
	<hr/>	<hr/> <hr/>
		\$4,843 45

INDIGENT SOLDIERS AND SAILORS.

Credit.

APPROPRIATIONS, amount assessed,		\$1,000 00
STATE OF MASS. (INDIGENT SOLDIERS AND SAILORS), one half of amount paid in 1881, charged to the State,		1,008 00
EXCESS AND DEFICIENCY, balance to debit of account,		8 00
		<hr/>
		\$2,016 00

Debit.

CASH, paid sundry persons,		\$2,016 00
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INTEREST.

Credit.

APPROPRIATIONS, amount assessed,		\$74,000 00
CASH, received on deposits in banks,	\$1,276 17	
On taxes,	6,528 39	
On tax titles released,	1,574 53	
Of State Treasurer, corporation and bank taxes,	9,526 52	
	<hr/>	<hr/> <hr/>
<i>Amounts carried forward,</i>	\$18,905 61	\$74,000 00

<i>Amounts brought forward,</i>	\$18,905 61	\$74,000 00
Of Blake Brothers & Co., premium on notes and bonds,	2,807 00	
On bonds issued, accrued interest at time of disposal,	91 66	
Of American Loan and Trust Co., premium on bonds,	479 37	
Of J. T. Glines, premium on note,	2 50	
	<hr/>	22,286 14
REAL-ESTATE LIENS, interest on titles to the city on property deeded for non-payment of taxes,		50 11
		<hr/>
		\$96,336 25
Debit.		
CASH, paid on Funded Debt : —		
\$60,000, 6 months, at 6½ per cent,	\$1,950 00	
\$546,500 1 year, at 6½ per cent,	36,172 50	
\$115,000, 1 year, at 6 per cent,	6,900 00	
\$121,000, 1 year, at 5½ per cent,	6,655 00	
\$397,500, 1 year, at 5 per cent,	19,875 00	
\$60,000, 6 months, at 5 per cent,	1,500 00	
	<hr/>	\$73,052 50
Less coupons unpaid,	762 50	
	<hr/>	\$72,290 00
SUNDRY PERSONS, coupons unpaid as above,	762 50	
	<hr/>	\$73,052 50
	<hr/>	
CASH, paid on Temporary Loans : —		
Union Institution for Savings, on note for \$50,00, 4 months 3 days, at 4 per cent,	\$683 33	
Boston Five Cents Savings Bank, on note for \$80,000, 4 months 3 days, at 4½ per cent,	1,230 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$1,913 33	\$96,336 25

<i>Amounts brought forward,</i>	\$1,913 33	\$96,336 25
On note for \$70,000, 4 months, at $4\frac{3}{8}$ per cent,	1,020 83	
7 months 21 days, at 4 per cent,	1,796 66	
23 days, at $4\frac{1}{2}$ per cent,	201 25	
On notes for \$20,000, 8 months 3 days, at $4\frac{1}{4}$ per cent,	573 75	
23 days, at $4\frac{1}{2}$ per cent,	57 50	
People's Savings Bank, on notes for \$20,000, 8 months 3 days, at $4\frac{1}{4}$ per cent,	573 74	
Suffolk Savings Bank, on note for \$20,000, 4 months 3 days, at 3 per cent,	205 00	
Essex Savings Bank, on notes for \$60,000, 8 months, at 4 per cent,	1,700 00	
Maverick National Bank, on notes for \$20,000, 8 months 3 days, at $4\frac{1}{4}$ per cent,	573 75	
On note for \$25,000, 3 months, at 5 per cent,	312 50	
Worcester North Savings Institu- tion, on notes for \$20,000, 8 months 3 days, at $4\frac{1}{4}$ per cent,	573 74	
Worcester County Institution for Savings, on notes for \$50,000, 8 months 3 days, at $4\frac{1}{4}$ per cent,	1,434 38	
Athol Savings Banks, on note for \$10,000, 8 months 3 days, at $4\frac{1}{4}$ per cent,	286 88	
Warren Institution for Savings, on note for \$10,000, 2 months, at $4\frac{3}{4}$ per cent,	79 17	
<i>Amounts carried forward,</i>	<u>\$11,302 48</u>	<u>\$96,336 25</u>

<i>Amounts brought forward,</i>	\$11,302 48	\$96,336 25
Lynn Savings Bank, on note for \$10,000, 3 months 3 days, at 4½ per cent,	116 25	
On note for \$25,000, 3 months, at 5 per cent,	312 50	
First National Bank, on note for \$25,000, 3 months, at 5 per cent,	312 50	
J. T. Glines, on note for \$5,000, 3 months 18 days, at 4½ per cent,	67 50	
Brewster, Basset & Co., on note for \$10,000, 4 months 3 days, at 4½ per cent,	153 75	
	<hr/>	
	\$12,264 98	
	<hr/>	
ON FUNDED DEBT,	\$73,052 50	
ON TEMPORARY LOANS,	12,264 98	
	<hr/>	
	\$85,317 48	
EXCESS AND DEFICIENCY, balance to credit of account,	11,018 77	
	<hr/>	\$96,336 25
		<hr/>
LIQUOR LICENSES.		
	Credit.	
CASH, received for —		
Fourth Class, 2 at \$150 each,	\$300 00	
8 at \$50 each,	400 00	
	<hr/>	\$700 00
	Debit.	
CASH, paid State Treasurer, one fourth of amount received,	\$175 00	
MISCELLANEOUS, transferred,	525 00	
	<hr/>	\$700 00
		<hr/>

MISCELLANEOUS.

Credit.

APPROPRIATIONS, amount assessed,		\$6,500 00
REAL-ESTATE LIENS, costs on titles to the city, on property deeded for non-payment of taxes and assessments,		102 95
CASH, received : —		
Costs on property sold for non- payment of taxes and assess- ments,	\$307 25	
Of the City Clerk, fees for recording mortgages, etc., and for mar- riage certificates, etc.,	739 35	
Sears Condit, pasturage,	5 00	
	<hr/>	1,051 60
LIQUOR LICENSES, city's three fourths of sum received,		525 00
		<hr/>
		\$8,179 55

Debit.

CASH, paid M. R. Warren, stationery,	\$338 87	
Hooper, Lewis & Co., “	62 00	
J. M. Whittemore & Co., “	63 00	
J. O. Hayden & Co., advertising and printing,	1,449 67	
Edward W. Sanborn, printing,	12 00	
Horace Partridge & Co., “	12 50	
J. H. Bufford's Sons, “	112 50	
J. A. Cummings & Co., “	5 50	
Rockwell & Churchill, “	6 00	
Alfred Mudge & Son, “	38 48	
Geo. H. Derby & Co., desks and table,	151 00	
C. S. Decker & Co., awnings, etc.,	25 00	
J. H. Brooks, dry goods,	29 55	
	<hr/>	
<i>Amounts carried forward,</i>	\$2,306 07	\$8,179 55

<i>Amounts brought forward,</i>	\$2,306 07	\$8,179 55
C. M. Blake, newspapers,	9 00	
H. Wellington & Co., fuel,	278 46	
H. A. Pratt, expenses of City		
Government to gravel lands,	213 50	
Carriage hire,	14 00	
Post 139, G. A. R., for Memorial		
Day,	300 00	
A. L. Sanborn, carriage hire,	10 00	
E. S. Tobey, rent of post-office box,	4 00	
S. D. Carter, refreshments,	60 00	
Frost & Adams, engineer's mate-		
rials,	39 72	
Sturtevant Brothers, poultry for		
Thanksgiving distribution,	140 00	
Geo. W. Trefren, ballot boxes,	3 50	
Harrison & McLane, posting war-		
rants,	10 00	
L. M. Maynard, labor at ceme-		
tery,	24 00	
J. Boyd & Sons, express bag,	5 50	
Chabot & Lorentzen, labor on press,	1 75	
Chas. E. Gilman, postage stamps,	5 00	
Aaron Sargent, amount paid, extra		
clerical assistance in Treasurer's		
office,	94 00	
H. D. & W. S. Durgin, ice,	50 00	
J. C. Davidson, doorkeeper for		
assessors,	15 00	
J. C. Magoun, sealer of weights		
and measures,	100 00	
B. F. Johnson, removing draperies,	3 00	
J. W. Mandell, flowers,	25 00	
Seward Dodge, use of wagon,	10 00	
John H. Stevens, compensation		
for damages on highway,	25 00	
<i>Amounts carried forward,</i>	<u>\$3,746 50</u>	<u>\$8,179 55</u>

<i>Amounts brought forward,</i>	\$3,746 50	\$8,179 55
L. W. Manning, labor on carpets,	3 20	
H. W. Raymond, hardware, etc.,	6 72	
Howe & Flint, “	11 45	
Carter, Rice & Co., paper,	1 00	
Jonathan Stone, repairing tripod,	1 00	
A. W. Mitchell, stamp and dies,	9 15	
Craig & Tucker, safe,	135 00	
J. B. Brine, cushions, etc.,	48 60	
Wakefield Rattan Co., matting,	72 41	
Chas. Pierce, gas fixtures,	28 15	
A. S. Pratt & Son, detector,	3 00	
Adin Davis, repairing roof,	46 58	
Chas. G. Pope, taking abstracts of mortgages,	11 28	
F. W. Lincoln & Co., steel, tapes, etc.,	29 25	
E. R. Morse, labor on safe,	1 50	
H. B. Runey, return of deaths,	34 25	
C. H. Lockhart, “ “	37 75	
Patrick Rafferty, “ “	36 75	
Wm. A. Flaherty, “ “	32 50	
Jos. W. Coveney, “ “	4 50	
F. G. Williams, return of births,	150 00	
Cambridge Gas Light Co., gas,	304 17	
Ward Officers, 1879,	6 00	
“ “ 1880,	29 00	
“ “ 1881,	108 00	
City of Boston, water rate,	50 00	
S. J. Wood, fitting keys, etc.,	10 50	
J. C. Abrams, use of hall,	12 00	
L. L. Wilder, “ “	10 00	
W. E. Mellish, repairing furniture,	3 50	
G. W. Manning, labor on flag-staff,	48 00	
Engineer's assistants, car fares, etc.,	25 83	
<i>Amounts carried forward,</i>	<u>\$5,057 54</u>	<u>\$8,179 55</u>

<i>Amounts brought forward,</i>	\$5,057 54	\$8,179 55
J. M. Coburn, care of ward-room,	18 00	
Robert Thompson, " "	12 00	
Patrick Keefe, " "	8 00	
Murphy, Leavens & Co., dusters,	10 77	
W. H. Whitcomb, labor, sawing wood, etc.,	51 30	
W. H. Whitcomb, ringing bell,	2 00	
J. E. Marden, " "	2 00	
F. P. Ham, " "	3 00	
A. N. Sibley, " "	2 00	
Greenough & Co., directories,	12 00	
George H. Cowdin, directory,	2 00	
E. S. Bailey, repairing clocks,	6 25	
J. E. Eldredge, serving notices,	13 50	
E. A. Carter, carpeting,	4 37	
Charles Williams, Jr., rent of tele- phone, etc.,	48 50	
Telephone Despatch Company, rent of telephone, etc.,	110 15	
Jairus Mann, amount paid, ex- penses of "Empire State" ex- cursion,	54 00	
J. Harrington & Co., brushes,	3 00	
Barker & Tibbetts, expressing,	25	
E. R. Perham, "	35	
W. J. London, "	16 15	
Clerk of Courts, court fees, etc.	22 75	
S. C. Darling, " "	212 28	
R. A. Melvin & Co., carpenter work,	20 25	
J. E. Pearse, " "	14 03	
A. W. Berry, " "	10 33	
G. W. Lawson, " "	23 10	
C. A. Spear, " "	5 00	
N. C. Barker, " "	1 60	
<i>Amounts carried forward,</i>	\$5,746 47	\$8,179 55

<i>Amounts brought forward,</i>	\$5,746 47	\$8,179 55
Daniel Brooks, mason work,	38 40	
A. M. Sibley, “	3 50	
Ellen Barry, cleaning floors,	2 00	
Thos. Hollis, drugs,	4 20	
J. Q. Twombly, painting,	221 15	
Chas. Dassance, “	4 00	
Douglas Frazar, clerk of Com- mittee on State Aid and Indi- gent Soldiers and Sailors,	200 00	
Geo. I. Vincent, taking abstracts from deeds,	200 00	
Clerk of Committee on Ordi- nances,	200 00	
Jairus Mann, watching at City Hall,	77 50	
Amount paid washing,	3 00	
M. A. Mann, washing,	15 00	
Ingalls & Hendricken, repairs on heating apparatus,	62 18	
	<hr/>	
	\$6,777 40	
REAL-ESTATE LIENS, amount allowed in settlement of tax title,	18 10	
EXCESS AND DEFICIENCY, balance to credit of account,	1,384 05	
	<hr/>	
		\$8,179 55

OVERLAY AND ABATEMENT.

Credit.

TAXES, amount added to the amount of the taxes assessed, as fractional divisions, for conven- ience in the apportionment,		\$7,618 32
ADDITIONAL tax of 1878,		15 20
		<hr/>
		\$7,633 52

Debit.

TAXES, for abatement on taxes,	\$7,387 90	
	<hr/>	
<i>Amounts carried forward,</i>	\$7,387 90	\$7,633 52

<i>Amounts brought forward,</i>	\$7,387 90	\$7,633 52
CASH, paid F. F. and J. M. Ayer <i>et al.</i> ,		
return on taxes paid,	196 00	
BALANCE, to credit in account of 1882,	49 62	
	<hr/>	\$7,633 52
		<hr/> <hr/>

OVERPLUS ON TAX SALES.

Credit.

BALANCE, from 1880,		\$131 00
CASH, received over taxes and costs on real estate sold for non-payment of taxes for 1879,		11 00
		<hr/>
		\$142 00

Debit.

CASH, paid sundry persons, overplus-re- ceived on sale of their estates,	\$75 00	
BALANCE, to credit in account of 1882,	67 00	
	<hr/>	\$142 00
		<hr/> <hr/>

POLICE.

Credit.

APPROPRIATIONS, amount assessed,		\$22,500 00
CASH, received of Lebbeus Stetson, clerk of the court, for officers' fees, etc.,		1,419 40
		<hr/>
		\$23,919 40

Debit.

CASH, paid M. C. Parkhurst, chief,	\$1,400 00	
R. R. Perry, captain,	1,100 00	
Samuel R. Dow, sergeant,	950 00	
C. C. Folsom, “	950 00	
S. A. Brown, patrolman,	912 50	
Geo. W. Bean, “	912 50	
	<hr/>	
<i>Amounts carried forward,</i>	\$6,225 00	\$23,919 40

<i>Amounts brought forward,</i>	\$6,225 00	\$23,919 40
Geo. A. Bodge, patrolman,	657 50	
N. F. Caswell, “	912 50	
Isaac S. Campbell, “	912 50	
C. C. Cavanagh, “	912 50	
Albert Fisk, “	912 50	
J. E. Fuller, “	912 50	
John Hafford, “	912 50	
M. H. Kingsley, “	912 50	
Dennis Kelley, “	627 50	
Ivan Laighton, “	912 50	
Howard Lowell, “	912 50	
John H. McGarr, “	255 00	
Edward McGarr, “	912 50	
J. W. Oliver, “	912 50	
S. C. Rollins, “	912 50	
F. W. Slade, “	912 50	
P. W. Skinner, “	912 50	
A. L. Staples, “	912 50	
S. H. Whitcomb, “	272 50	
J. B. Young, “	912 50	
M. C. Parkhurst, lock-up keeper,	200 00	
Amount paid carriage hire,	28 81	
A. L. Sanborn, horse keeping, etc.,	224 59	
L. H. Brown, carriage hire,	20 50	
C. C. Folsom, amount paid trans- portation of prisoners,	79 92	
S. R. Dow, amount paid trans- portation of prisoners,	3 80	
Badge,	3 00	
Telephone Despatch Co., trans- mitting messages,	16 25	
M R. Warren, stationery,	52 32	
W. F. Smith, analysis,	20 00	
Union Glass Co., lanterns,	13 50	
<i>Amounts carried forward,</i>	\$23,300 19	\$23,919 40

<i>Amounts brought forward,</i>	\$23,300 19	\$23,919 40
Guild & Delano, repairing badge,	50	
N. L. Pennock, harness work,	1 25	
Sturtevant Bros. crackers, cheese, etc.,	10 71	
S. D. Carter, meals furnished,	5 00	
H. W. Raymond, horse blanket,	4 50	
S. Dodge, horse-shoeing,	11 00	
A. M. Prescott, expressing,	20 00	
W. J. London, " "	1 25	
Sarah Heith, washing,	26 82	
Sarah Monahan, " "	66	
J. W. Brine, " "	1 20	
E. L. White, medical attendance,	6 00	
A. H. Carvill, " "	2 00	
W. W. Dow, " "	4 00	
E. Jackson, " "	3 00	
Scovill Mfg. Co., buttons,	25 88	
J. H. Brooks, netting,	3 90	
H. D. & W. S. Durgin, ice,	30 00	
J. O. Hayden & Co., printing,	32 50	
H. A. Winship, billies, etc.,	12 12	
G. H. Cowdin, directories, etc.,	4 70	
O. Nowell, whistles,	2 75	
C. Williams, Jr., telephone materials,	9 87	
Giles & Prescott, bookcase, etc.,	42 25	
C. M. Blake, newspapers,	18 95	
	<hr/>	
	\$23,581 00	
EXCESS AND DEFICIENCY, balance to credit of account,	338 40	
	<hr/>	\$23,919 40
		<hr/>
POLICE STATION INCIDENTALS.		
Credit.		
APPROPRIATIONS, amount assessed,		\$2,300 00
<i>Amount carried forward,</i>		<hr/> \$2,300 00

<i>Amount carried forward,</i>		\$2,300 00
CASH, received of—		
Post 139, G. A. R., rent of hall to		
Oct. 1,	\$100 00	
Philip Eberle, use of hall,	42 00	
Somerville Band, “	15 00	
Charity Club, “	20 00	
“ Our Bachelors,” “	26 00	
Jas. B. Hardy, “	110 00	
Somerville Co-operative Savings		
Fund and Loan Association,		
use of hall,	30 00	
Committee on Public Property,		
amount received by them for use		
of hall,	10 00	
	<hr/>	353 00
		<hr/>
		\$2,653 00
	Debit.	
CASH, paid W. D. Hayden, janitor,	\$700 00	
Oil for carburetter,	158 00	
Cambridge Gas Light Co., gas,	293 45	
H. Wellington & Co., fuel,	382 17	
City of Boston, water rates,	68 00	
W. Schuebeler, towels, etc.,	6 10	
Sturtevant Bros., soap, sawdust,		
etc.,	11 94	
H. W. Raymond, hardware, dust-		
ers, etc.,	29 10	
Howe & Flint, dippers,	7 09	
W. C. Crane, premium of insurance,	20 00	
Union Glass Co., globes,	9 00	
G. H. Cowdin, alcohol,	1 50	
John C. Newcomb, repairing fur-		
niture,	10 30	
S. Dodge, manure,	4 50	
	<hr/>	
<i>Amounts carried forward,</i>	\$1,701 15	\$2,653 00

<i>Amounts brought forward,</i>	\$1,701 15	\$2,653 00
D. Brooks, whitening, etc.,	91 60	
W. D. Hayden, for substitute,	11 30	
Jackson, Caldwell & Co., matting, etc.,	13 30	
C. A. Legallee, plumbing,	5 53	
Giles & Prescott, cuspadores, etc.,	11 25	
L. Arnold, carpenter work,	9 50	
A. A. Sanborn, repairing heating apparatus,	37 15	
	<hr/>	
	\$1,880 78	
EXCESS AND DEFICIENCY, balance to credit of account,	772 22	
	<hr/>	
		\$2,653 00
		<hr/> <hr/>

PROPERTY AND DEBT BALANCE.

Credit.

RENEWAL OF FUNDED DEBT, amount of debt paid in 1881,	\$153,500 00
PUBLIC PROPERTY, acquired during the year 1881,	33,600 00
BALANCE, to debit in account of 1882,	430,000 00
	<hr/>
	\$622,000 00

Debit.

BALANCE, from 1880,	\$463,600 00
APPROPRIATIONS,	158,500 00
	<hr/>
	\$622,100 00
	<hr/> <hr/>

PUBLIC LIBRARY.

Credit.

BALANCE, from 1880,	\$499 22
APPROPRIATIONS, amount assessed,	1,200 00
	<hr/>
<i>Amount carried forward,</i>	\$1,699 22

<i>Amount brought forward,</i>		\$1,699 22
CASH, received of —		
County treasurer, return on dog licenses for 1880,	\$927 13	
Librarian, for fines,	205 10	
Catalogues,	29 72	
	<hr/>	1,161 95
		<hr/>
		\$2,861 17
EXCESS AND DEFICIENCY, balance to debit of account,		31 66
		<hr/>
		\$2,892 83

Debit.

CASH, paid Lockwood, Brooks & Co., books, etc.,	\$577 44	
Estes & Lauriat, books, etc.,	601 90	
Little, Brown & Co., books,	12 00	
N. J. Bartlett, “	38 72	
H. D. Noyes & Co., “	3 45	
Lee & Shepard, “	26 78	
C. Scribner & Sons, “	7 50	
F. Leypoldt, Library Journal,	3 00	
Ira Bradley & Co., binding books,	44 94	
Babb & Stephens, printing,	210 50	
Q. P. Index, index,	1 25	
W. G. Tousey, lithogram,	3 75	
C. M. Blake, newspapers,	12 00	
W. J. London, expressing,	39 75	
A. H. Davenport, table,	7 50	
A. W. Berry, carpenter work,	3 00	
N. L. Chamberlin & Co., repairing stamp,	1 50	
Harriet A. Adams, librarian,	700 00	
Lizzie Stevens, assistant librarian,	350 00	
Georgette Colman, “ “	153 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$2,797 98	\$2,892 83

<i>Amounts brought forward,</i>	\$2,797 98	\$2,892 83
L. A. Manning, assistant librarian,	27 63	
Ernest Merritt, " "	34 25	
E. Maynard, " "	20 41	
Ida Fillebrown, " "	12 56	
	<hr/>	<u>\$2,892 83</u>

PUBLIC PROPERTY.

	Credit.	
BALANCE, to debit in account of 1882,		\$1,155,000 00
	Debit.	
BALANCE, from 1880,	\$1,121,400 00	
PROPERTY AND DEBT BALANCE, property acquired during the year,	33,600 00	
	<hr/>	<u>\$1,155,000 00</u>

PUBLIC PARK.

	Credit.	
BALANCE, from 1880,		\$1,524 18
	Debit.	
CASH, paid O. S. Knapp, costs of court in suit with Clark Bennett,	\$385 93	
PUBLIC-PARK BETTERMENT ASSESSMENTS, abated,	786 93	
BALANCE, to credit in account of 1882,	351 32	
	<hr/>	<u>\$1,524 18</u>

PUBLIC-PARK BETTERMENT ASSESSMENTS.

	Credit.	
PUBLIC PARK, abatements,	\$786 93	
BALANCE, to debit in account of 1882,	786 91	
	<hr/>	<u>\$1,573 84</u>
	Debit.	
BALANCE, from 1881,		<u>\$1,573,84</u>

PUBLIC-PARK MAINTENANCE.

	Credit.	
APPROPRIATIONS, amount assessed,	\$1,200 00	
CASH, received for grass,	9 00	
<i>Amount carried forward,</i>	<hr/>	<u>\$1,209 00</u>

<i>Amount brought forward,</i>	\$1,209 00
EXCESS AND DEFICIENCY, balance to debit of account,	340 91
	<hr/> \$1,549 91

Debit.	
CASH, paid M. W. Murphy, labor, etc.,	\$804 00
D. Foley, labor,	77 25
J. Murphy, labor,	220 50
C. McCarty, “	5 00
John Rowe, “	9 75
G. W. Prichard, filling material and teaming,	111 91
T. Murphy, plants,	45 00
J. O. Pendleton & Co., rope,	2 79
Jos. Breck & Sons, repairing lawn mower, etc.,	3 90
H. J. Foster, manure,	5 00
M. J. Hall & Co., painting fence,	245 00
J. A. Durell, labor,	15 81
R. A. Melvin, carpenter work,	3 75
E. R. Perham, expressing,	25
	<hr/> \$1,549 91

REAL-ESTATE LIENS.

Credit.	
CASH, received of sundry persons for tax titles released,	\$7,515 53
RECALLED TAX TITLES, disclaimers on tax titles de- fective by reason of error in assessment or sale,	5,141 12
MISCELLANEOUS, allowed in release of tax title,	18 10
	<hr/> \$12,674 75
BALANCE, to debit in account of 1882,	2,007 30
<i>Amount carried forward,</i>	<hr/> \$14,682 05

Amount brought forward,

\$14,682 05

Debit.

BALANCE, from 1880,	\$13,714 99	
TAXES, titles deeded to the city for non-payment of taxes,	456 50	
SEWER ASSESSMENTS, title deeded to the city for non payment of sewer assessment,	221 02	
INTEREST, on titles deeded to the city,	50 11	
MISCELLANEOUS, costs on titles deeded to the city,	102 95	
RECALLED TAX TITLES, property resold and deeded to the city,	136 48	
	<hr/>	\$14,682 05
		<hr/> <hr/>

RECALLED TAX TITLES.**Credit.**

CASH, received for tax titles on property resold,	\$126 17	
REAL-ESTATE LIENS, titles to the city on property resold,	136 48	
EXCESS AND DEFICIENCY, balance to debit of account,	6,689 12	
	<hr/>	\$6,951 77
		<hr/> <hr/>

Debit.

CASH, paid sundry persons, for surrenders and discharges of defective tax titles of real estate, recording, advertising, etc.,	\$1,810 65	
REAL-ESTATE LIENS, disclaimers, etc., on defective tax titles held by the city,	5,141 12	
	<hr/>	\$6,951 77
		<hr/> <hr/>

RENEWAL OF FUNDED DEBT.

Credit.

APPROPRIATIONS, amount authorized by loans,	\$158,500 00
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Debit.

PROPERTY AND DEBT BALANCE, amount of the funded debt paid in 1881,	\$158,500 00
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SALARIES.

Credit.

APPROPRIATIONS, amount assessed,	\$16,400 00
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EXCESS AND DEFICIENCY, balance to debit of account,	359 35
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	\$16,759 35
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Debit.

CASH, paid John A. Cummings, Mayor,	\$900 00
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Chas. E. Gilman, city clerk,	2,100 00
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Aaron Sargent, city treasurer,	3,000 00
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Treasurer of Commissioners of Sinking Funds,	200 00
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George A. Kimball, city engineer,	1,900 00
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S. C. Darling, city solicitor,	1,500 00
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J. F. Couch, city physician,	700 00
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D. Frazar, city auditor,	300 00
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Clerk of Common Council,	200 00
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Geo. I. Vincent, clerk to assessors and committees,	1,100 00
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Jairus Mann, city messenger,	1,300 00
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Thomas Cunningham, assessor,	500 00
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F. G. Williams, " "	500 00
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S. H. Libby, " "	500 00
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B. F. Thompson, assistant assessor,	200 00
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George Smith, " "	200 00
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<i>Amounts carried forward,</i>	\$15,100 00	\$16,759 35
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<i>Amounts brought forward,</i>	\$15,100 00	\$16,759 55
R. A. Melvin, assistant assessor,	200 00	
S. H. Holland, " "	200 00	
Engineer's assistants,	1,109 35	
Albert Caswell, inspector of build- ings,	33 70	
David A. Sanborn, inspector of buildings,	116 30	
	<hr/>	\$16,759 35
		<hr/> <hr/>

SCHOOL CONTINGENT.

Credit.

APPROPRIATIONS, amount assessed,		\$8,700 00
CASH, received of the superintendent of schools and others, for tuition of non-resident pupils,		110 00
EXCESS AND DEFICIENCY, balance to debit of account,		217 90
		<hr/>
		\$9,027 90

Debit.

CASH, paid Joshua H. Davis, salary as superintendent of schools,	\$1,800 00	
For postage stamps, etc.,	6 00	
Janitors,	3,247 27	
Robert Thompson, truant officer,	37 50	
C. C. Folsom, " "	50 00	
Travelling expenses,	9 00	
J. M. Coburn, truant officer,	37 50	
Rent and fuel,	207 10	
Charlestown Gas Company, gas,	113 50	
Cambridge Gas Light Company, gas,	82 83	
George B. King, printing,	66 00	
J. L. Hammett, stationery, etc.,	32 65	
	<hr/>	
<i>Amounts carried forward,</i>	\$5,689 35	\$9,027 90

<i>Amounts brought forward,</i>	\$5,689 35	\$9,027 90
Knight, Adams & Co., stationery, etc.,	683 83	
D. H. Dimond, books, etc.,	58 82	
E. D. Daniels, “	345 50	
D. Lothrop & Co., “	33 13	
E. G. Dodge, “	59 71	
A. C. Stockin, “	2 58	
Hall & Whitney, “	2 65	
John C. Howard, “	54 16	
Potter, Ainsworth & Co., paper,	15 00	
A. G. Whitcomb, ink wells,	19 80	
A. E. Long, French periodicals,	1 50	
Boston School Supply Co., writing books, etc.,	166 55	
J. W. C. Gilman & Co., writing books, etc.,	278 92	
H. K. Bowers, chart,	3 50	
George A. Smith & Co., erasers, etc.,	21 15	
A. T. Whitehouse, pencil sharpeners,	5 00	
West Somerville Baptist Church, rent,	245 00	
Smith, Doolittle & Smith, corks, etc.,	2 78	
Murphy, Leavens & Co., dusters,	111 27	
S. M. Fuller, fuel, etc.	6 35	
J. E. Perkins, “	3 78	
Jairus Mann, truant officer,	12 50	
E. S. Bailey, repairing clocks,	2 50	
F. R. Cutter, “ “	85	
G. W. Bartlett, “ “	7 50	
Bishop & Brother, ladders,	7 35	
Rand & Byam, soap,	13 00	
B. F. Sheridan, soap, etc.,	1 22	
D. H. Rinn, “	4 70	
P. Lynam & Sons, mats,	48 86	
J. P. Williams, drinking cups,	7 50	
<i>Amounts carried forward,</i>	\$7,916 31	\$9,027 90

<i>Amounts brought forward,</i>	\$7,916 31	\$9,027 90
O. F. Howe, brooms,	9 00	
O. Nowell, adjusting bells,	3 50	
Weeks & Potter, chemicals,	9 04	
W. H. Denton, oil, etc.,	5 20	
H. V. Hathaway, key,	50	
H. A. Pratt, carriage hire,	8 00	
S. S. Wilder, use of hall,	5 00	
Board of Assessors, taking census,	50 00	
City of Boston, water rates,	538 90	
City of Cambridge, “	24 00	
Thos. Young, flowers,	3 00	
W. L. Snow, hardware, etc.,	21 45	
C. Holmes & Son, “	25 22	
Robert Thompson, labor,	7 50	
Margaret Harkness, “	6 98	
Delia Reardon, “	3 60	
Wm. R. Cann, “	10 00	
C. C. Hunkins, diplomas,	8 61	
N. S. Dearborn, “	57 10	
C. A. French, filling diplomas,	19 80	
G. L. Baxter, ribbon for diplomas,	1 80	
G. A. Southworth, ribbon for diplomas,	3 00	
Robert Bickford, ribbon for diplo- mas,	2 51	
Barker & Tibbetts, expressing,	8 25	
E. R. Perham, “	25	
Weeks & Kent, “	16 30	
Weeks's Express, “	5 40	
B. H. Weeks & Co., “	19 10	
Stilphen & Co., “	7 25	
W. J. London, “	7 00	
S. J. Wood, fitting keys,	1 50	
Woodward & Brown, moving piano,	2 00	
<i>Amounts carried forward,</i>	<u>\$8,807 07</u>	<u>\$9,027 90</u>

<i>Amounts brought forward,</i>	\$8,807 07	\$9,027 90
Geo. C. Proctor, tuning piano,	4 00	
E. S. Daniels, " "	6 00	
Geo. H. Brown, " "	2 25	
S. H. O. Hadley, " "	2 50	
R. A. Stevens, carpenter work,	1 80	
J. H. Stevens, " "	18 58	
F. C. Hastings, books,	1 00	
J. O. Hayden & Co., printing,	184 70	
	<hr/>	\$9,027 90
		<hr/> <hr/>

SCHOOL FUEL.

Credit.

APPROPRIATIONS, amount assessed,	\$3,300 00
EXCESS AND DEFICIENCY, balance to debit of account,	497 07
	<hr/>
	\$3,797 07

Debit.

CASH, paid H. Wellington & Co., fuel,	\$3,770 39
S. M. Fuller, " "	26 68
	<hr/>
	\$3,797 07
	<hr/> <hr/>

SCHOOL-HOUSE (LINCOLN) ON CLARENDON HILL.

Credit.

APPROPRIATIONS, amount assessed,	\$3,000 00
EXCESS AND DEFICIENCY, balance to debit of account,	897 52
	<hr/>
	\$3,897 52

Debit.

CASH, paid Robert A. Vinal and others, for land,	\$1,236 34
D. Brooks, moving building and mason work,	2,296 00
	<hr/>
<i>Amounts carried forward,</i>	\$3,532 34
	<hr/> <hr/>
	\$3,897 52

<i>Amounts brought forward,</i>	\$3,532 34	\$3,897 52
I. F. Burnham, carpenter work,	89 25	
S. D. Kelley, architect,	50 00	
J. A. Swazey, blackboards,	14 88	
Water Service account, pipe, etc.,	40 25	
Sewer Assessment account, sewer assessment,	108 80	
Highways account, grading,	37 00	
Boston Advertiser, advertising,	5 00	
J. O. Hayden & Co., “	3 00	
Mrs. Jenness, cleaning,	17 00	
	<hr/>	\$3,897 52
		<hr/> <hr/>

SCHOOL-HOUSE ON HIGHLAND AVENUE.

Credit.

BALANCE, from 1880,	\$7,166 72
APPROPRIATIONS, amount assessed,	18,000 00
	<hr/>
	\$25,166 72
EXCESS AND DEFICIENCY, balance to debit of account,	462 54
	<hr/>
	\$25,629 26

Debit.

CASH, paid L. P. Soule, mason work,	\$11,459 08	
W. B. Stinson, carpenter work,	11,464 60	
S. D. Kelley, architect,	618 00	
I. F. Burnham, carpenter work,	245 39	
J. A. Durell, heating apparatus,	976 90	
Jeremiah McCarthy, filling ma- terial and gravel,	185 27	
G. M. D. Fernald, hanging bells,	70 95	
Highways account, filling material,	100 00	
A. G. Whitcomb, furniture,	484 57	
B. Bradley & Co., clock,	14 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$25,618 76	\$25,629 26

<i>Amounts brought forward,</i>	\$25,618 76	\$25,629 26
Gilman's Express, expressing,	7 00	
Russell & Fitch, moving night soil,	3 50	
	<hr/>	\$25,629 26
		<hr/> <hr/>

SCHOOL-HOUSE REPAIRS.

Credit.

APPROPRIATIONS, amount assessed,		\$7,000 00
CASH, received of—		
Catholic Society, use of Forster Hall,	\$155 00	
H. M. Smith, use of Forster Hall,	40 00	
J. B. Hardy, use of High School Hall,	83 00	
Thomas Miller, use of High School Hall,	125 00	
Universalist Society, use of High School Hall,	12 00	
Unitarian Society, use of High School and Forster Halls,	35 00	
N. B. Gilkey, use of High School Hall,	39 00	
Somerville High School Associa- tion, use of High School Hall,	20 00	
S. H. O. Hadley, use of High School Hall,	10 00	
C. F. Foss, use of High School Hall,	24 00	
F. E. Dickerman, use of High School Hall,	15 00	
Third Universalist Society, stoves,	25 00	
Sprague & Hathaway, stove,	20 00	
A. S. Pillsbury, old curtains,	1 50	
Wm. Armstrong, old junk,	5 00	
Wm. A. Muzzey, water-closet,	13 00	
	<hr/>	622 50
<i>Amount carried forward,</i>		\$7,622 50

Amount brought forward,

\$7,622 50

Debit.

CASH, paid J. D. Hills, carpenter work,	\$66 17	
Geo. W. Trefren, “ “	14 75	
Elijah Walker, “ “	302 43	
R. A. Melvin & Co., “ “	302 21	
L. Arnold, “ “	3 05	
N. C. Barker, “ “	5 01	
R. A. Stevens, “ “	71 14	
Ira F. Burnham, “ “	155 10	
Albert Caswell, “ “	4 25	
A. A. Gladwell, “ “	26 62	
T. B. Blaikie, “ “	112 27	
T. F. Farrington, “ “	543 38	
D. Brooks, mason work,	511 75	
L. C. Seavey, slating,	429 03	
A. A. Sanborn, heating apparatus,	281 94	
J. C. Dyer, painting,	181 70	
T. P. Ryan, “	36 80	
J. Q. Twombly, painting,	36 94	
W. S. Walker & Co., painting,	29 15	
F. W. Johnson & Co., painting and glazing,	10 93	
J. H. Hollis, glazing,	2 50	
Ramsay Clark, “	6 15	
L. T. Seaver, “	1 00	
T. E. Spencer, locks, etc.,	10 65	
Enoch Robinson, “	10 25	
Howe & Flint, plumbing, etc.,	167 64	
J. E. Parsons, “	37 08	
J. A. Merrifield, “	6 00	
J. F. Davlin, “	7 47	
C. A. Legallee, “	22 61	
J. A. Durrell, “	142 95	
W. L. Snow, stove work, etc.,	257 52	
<i>Amounts carried forward,</i>	<hr/>	<hr/>
	\$3,796 49	\$7,622 50

<i>Amounts brought forward,</i>	\$3,796 49	\$7,622 50
C. Holmes & Son, stove work, etc.,	20 45	
E. W. Carlton, whitening,	168 00	
Bovey & Needham, paper hangings,	3 94	
L. Pearson, paper hangings,	10 15	
Edward Earley, repairing roof,	11 80	
Adin Davis, removing snow,	10 00	
S. J. Wood, filing saws,	3 50	
E. S. Bailey, cleaning clocks,	19 00	
D. Cutter, " "	1 50	
B. M. Boyce, clock,	13 00	
S. M. Fuller, moving coal,	6 50	
Cambridge Gas Light Co., gas,	186 96	
O. Nowell, adjusting bell,	75	
W. C. Crane, premiums of insurance,	557 25	
Isaac B. Kendall, premiums of insurance,	77 00	
C. Bennett & Son, premiums of insurance,	272 30	
H. A. Pratt, carriage hire,	8 00	
J. A. Swazey, blackboards,	33 02	
H. Wellington & Co., lime,	1 00	
Eureka Ventilating Co., ventilator,	72 00	
R. F. Thompson, moving piano,	1 50	
Braman, Dow & Co., gauge glasses, etc.,	4 34	
Flynn Bros., window shades,	10 00	
H. W. Covill, labor on conductors,	53 62	
A. G. Whitcomb, furniture,	92 47	
Jos. Young, care of lawn,	30 00	
Alice M. Porter, amount paid repairs,	4 80	
J. E. Bond, carpets,	66 80	
<i>Amounts carried forward,</i>	\$5,536 14	\$7,622 50

<i>Amounts brought forward,</i>	\$5,536 14	\$7,622 50
H. A. Hartley & Co., carpets,	24 08	
J. Murphy, trees,	15 00	
T. Murphy, “	15 00	
D. O’Brien, loam,	1 50	
J. Breck & Son, wheelbarrow,	4 80	
Highways account, labor,	9 03	
D. H. Rinn, “	2 00	
Wm. H. Denton, “	4 00	
Lewis Grant, “	2 87	
Russell & Fitch, moving night soil,	83 50	
Barker & Tibbetts, expressing,	19 20	
E. R. Perham, “	1 25	
Thorpe’s Express, “	2 50	
H. A. Chick, repairing chairs, etc.,	10 25	
Thos. Stanley, “ “ “	2 75	
W. E. Butler, repairing desks,	2 00	
Sewer Assessments account, as- essment on Maple Street,	43 68	
Sewers account, cementing cellar,	190 96	
Water Service account, pipe, etc.,	110 80	
Sidewalk Assessments account, as- essment on Putnam Street,	3 53	
A. D. Collins, rent,	50 00	
Chas. Robinson, Jr., rent,	150 00	
Albert Bryant, “	37 50	
Daniel Swan, “	125 00	
E. W. Cobb, “	187 50	
H. W. Raymond, hardware,	30 45	
	<hr/>	
	\$6,665 29	
EXCESS AND DEFICIENCY, balance to credit of account,	957 21	
	<hr/>	
		\$7,622 50
		<hr/> <hr/>

SCHOOL TEACHERS' SALARIES.

Credit.

APPROPRIATIONS, amount assessed,	\$62,000 00
EXCESS AND DEFICIENCY, balance to debit of account,	136 15
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	\$62,136 15

Debit.

CASH, paid salaries,	\$62,136 15
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SEWERS.

Credit.

APPROPRIATIONS, amount assessed,	\$8,000 00
CASH, received of School-House Repairs account, labor, etc.,	\$190 96
Highways account, labor,	6 75
Water Maintenance account, pipe,	1 00
J. A. Cummings & Co., return of bill paid twice,	3 00
Sarah J. Hall, for permission to enter Holland Street sewer,	20 00
Henderson Brothers, for permission to enter Russell Street sewer,	106 89
Massachusetts General Hospital, for first annual payment for permission to enter Fitchburg Street sewer,	50 00
	<hr/>
	378 60
SEWER ASSESSMENTS, assessments levied,	9,216 75
EXCESS AND DEFICIENCY, balance to debit of account,	1,105 52
	<hr/>
	\$18,700 87

Debit.

CASH, paid laborers,	\$2,943 07
Fiske & Coleman, pipe, etc.,	166 05
	<hr/>

<i>Amounts carried forward,</i>	\$3,109 12	\$18,700 87
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<i>Amounts brought forward,</i>	\$3,109 12	\$18,700 87
W. A. Muzzey, pipe, etc.,	184 98	
Portland Stone Ware Co., pipe, etc.,	686 35	
D. W. Lewis, pipe, etc.,	9 07	
Howe & Flint, “	2,515 68	
C. Holmes & Son, “	728 04	
H. Wellington & Co., cement,	104 30	
Leander Greeley, sewer rods,	6 00	
H. W. Raymond, hardware,	12 13	
Osgood & Hart, iron covers,	203 03	
Highways account, stone,	3 00	
James Bartley, salt,	1 44	
Hunneman & Co., hose,	26 25	
A. Parker, catch-basin stone,	260 00	
Philip Eberle, rubber boots,	17 00	
H. M. Sawyer, oiled suit,	4 75	
J. O. Hayden & Co., printing,	71 50	
A. R. Gay & Co., stationery,	9 00	
S. Dodge, repairing tools,	3 87	
L. Arnold, carpenter work,	3 00	
City of Boston, water,	25 00	
J. A. Cummings & Co., printing,	4 75	
E. A. Foster, brick,	216 75	
J. M. Burckes, labor,	40 55	
G. W. Prichard, sand,	3 00	
C. L. Stevens, oil,	40	
C. W. Ingalls, carriage hire,	4 00	
D. Brooks, connecting cesspool,	1 75	
Barker & Tibbetts, expressing,	25	
James Maitland, scraper and rake,	8 00	
Water Maintenance account, half cost of blow-off,	48 00	
J. E. Somers, medical attendance,	2 00	
Boston Machine Co., couplings,	30 93	
Walworth Mfg. Co., traps, etc.,	33 45	
<i>Amounts carried forward,</i>	<u>\$8,377 34</u>	<u>\$18,700 87</u>

<i>Amounts brought forward,</i>	\$8,377 34	\$18,700 87
City of Cambridge, five ninths of cost of repairing tide gate,	50 65	
Five ninths of cost of removing deposit at mouth of sewer,	922 05	
Trustees of Donations of Protes- tant Episcopal Church, for land taken for Newbury Street sewer,	35 00	
Henry Emerson, for land taken for Clarendon Avenue sewer,	40 00	
George I. Vincent, clerk to Com- mittee on Sewers,	200 00	
T. P. Daniels, compensation for damage by obstruction to sewer,	17 83	
C. A. Mongan, constructing sewers in Orchard Street,	134 24	
Sewer in Oxford Street,	1,155 85	
Russell Street,	257 14	
Broadway,	429 37	
Village Street,	118 50	
Richard Falvey, constructing sewer in Berkeley Street,	1,216 95	
Walnut Street,	302 39	
Otis and Wigglesworth Streets,	694 58	
Wheatland Street,	319 77	
Patrick Terry, constructing sewer in Poplar Street,	466 87	
Maple Street,	310 00	
Maurice Terry, constructing sewer in Belmont Street,	1,702 65	
S. & M. Buttemer, constructing sewer in Winslow and Villa Avenues,	202 27	
Dennis O'Connell, constructing sewer in Morrison Street and Willow Avenue,	222 44	
<i>Amounts carried forward,</i>	<u>\$17,175 89</u>	<u>18,700 87</u>

<i>Amounts brought forward,</i>	\$17,175 89	\$18,700 87
Clarendon Avenue,	462 72	
Boston and High Streets,	784 02	
Labor, inlets, etc.,	5 48	
	<hr/>	
	\$18,428 11	
SEWER ASSESSMENTS, abated,	272 76	
	<hr/>	\$18,700 87

SEWER ASSESSMENTS.

Credit.

CASH, received of sundry persons, assessments,		\$9,334 21
SEWERS, abatements on assessments,		272 76
REAL-ESTATE LIENS, title to the city for non-payment of assessment,		221 02
BALANCE, to debit in account of 1882,		7,470 26
		<hr/>

\$17,298 25

Debit.

BALANCE, from 1880,	\$8,081 50	
SEWERS, assessments levied,	9,216 75	
	<hr/>	\$17,298 25

SIDEWALKS.

Credit.

APPROPRIATIONS, amount assessed,		\$2,000 00
SIDEWALK ASSESSMENTS, assessments levied,		1,761 77

\$3,761 77

Debit.

CASH, paid laborers,	439 60	
John Turner & Co., edge stones,	2,087 80	
O. S. Foster, brick,	685 50	
Highways account, gravel, sand, etc.,	190 00	
J. O. Hayden & Co., advertising,	16 00	
Martin Gill, teaming,	4 00	
Owen Cunningham, teaming,	24 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$3,446 90	\$3,761 77

<i>Amounts brought forward,</i>	\$3,446 90	\$3,761 77
S. W. Fuller, lumber,	13 46	
W. M. Hadley, cement and sand,	11 38	
H. W. Raymond, lines, etc.,	1 60	
	<hr/>	
	\$3,473 34	
EXCESS AND DEFICIENCY, balance to credit of account,	288 43	
	<hr/>	
		\$3,761 77

SIDEWALK ASSESSMENTS.

Credit.

CASH, received of sundry persons, assessments,		\$894 74
BALANCE, to debit in account of 1882,		1,534 58
		<hr/>
		\$2,429 32

Debit.

BALANCE, from 1880,	\$667 55	
SIDEWALKS, assessments levied,	1,761 77	
	<hr/>	
		\$2,429 32

SINKING FUND CONTRIBUTIONS.

Credit.

APPROPRIATIONS, amount assessed,		\$45,525 00
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Debit.

CASH, paid Commissioners of the Sinking Funds,		\$45,525 00
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SOLDIERS' RELIEF.

Credit

APPROPRIATIONS, amount assessed,		\$1,000 00
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Debit.

CASH, paid Sturtevant Bros., groceries, etc.,	\$367 00	
H. Wellington & Co., fuel,	220 85	
Philip Eberle, boots and shoes,	34 65	
Jas. Bartley, orders,	58 75	
	<hr/>	
<i>Amounts carried forward,</i>	\$681 25	\$1,000 00

<i>Amounts brought forward,</i>	\$681 25	\$1,000 00
Albert Everett, orders,	91 00	
F. R. Everett, “	3 00	
Sundry persons, aid,	121 00	
	<hr/>	
	\$896 25	
EXCESS AND DEFICIENCY, balance to credit of account,	103 75	
	<hr/>	\$1,000 00
		<hr/> <hr/>
STATE AID.		
	Credit.	
STATE OF MASSACHUSETTS.—STATE AID, amount paid in 1881, charged to the State,		\$4,796 50
	Debit.	
CASH, paid monthly pay-rolls for aid,		\$4,796 50
		<hr/> <hr/>
STATE OF MASSACHUSETTS.		
	Credit.	
TAXES, amount assessed for State tax,		\$23,160 00
	Debit.	
CASH, paid State tax,		\$23,160 00
		<hr/> <hr/>
STATE OF MASSACHUSETTS.—INDIGENT SOLDIERS AND SAILORS.		
	Credit.	
CASH, received of the State Treasurer,		\$1,151 00
BALANCE, Dec. 31, 1881, due from the State, Dec. 1, 1882, to debit in account of 1882,		1,004 00
		<hr/>
		\$2,155 00
	Debit.	
BALANCE, from 1880,	\$1,147 00	
INDIGENT SOLDIERS AND SAILORS, one half amount paid in 1881 as per account,	1,008 00	
	<hr/>	
		\$2,155 00
		<hr/> <hr/>

STATE OF MASSACHUSETTS.—STATE AID.

Credit.

CASH, received of the State Treasurer,		\$1,441 25
BALANCE, Dec. 31, 1881, due from the State, Dec. 1, 1882, to debit in account of 1882,		4,655 50
		<hr/>
		\$9,096 75

Debit.

BALANCE, from 1880,	\$4,300 25	
STATE AID, amount paid in 1881, as per account,	4,796 50	
	<hr/>	\$9,096 75
		<hr/> <hr/>

STREET LIGHTS.

Credit.

APPROPRIATIONS, amount assessed,		\$7,500 00
CASH, received of sundry persons for lamp-posts,		96 00
EXCESS AND DEFICIENCY, balance to debit of account,		37 33
		<hr/>
		\$7,633 33

Debit.

CASH, paid Cambridge Gas Light Com- pany, gas,	\$2,101 44	
Labor on pipes, etc.,	30 04	
Charlestown Gas Company, gas,	1,693 19	
Labor on pipes, etc.,	51 00	
Hugh Blackwell, lighting,	2,482 90	
Globe Gas Light Company, light- ing,	1,082 33	
For lamp-posts, lanterns, etc.,	43 35	
A. H. Weld & Son, alcohol,	36 80	
Hills, Turner & Co., glass,	16 63	
W. H. Blackwell, repairs,	87 55	
J. O. Hayden & Co., advertising,	7 20	
J. P. Williams, oil,	40	
Geo. T. Day, expressing,	50	
	<hr/>	\$7,633 33
		<hr/> <hr/>

SUNDRY PERSONS.

Credit.

BALANCE, from 1880,		\$631 10
INTEREST, coupons due and unpaid,		762 50
WATER MAINTENANCE, interest coupons due and unpaid,		275 00
		<hr/>
		\$1,668 60

Debit.

CASH, paid sundry persons, sums to their credit, Dec. 31, 1880,	\$621 00	
BALANCE, to credit in account of 1882,	1,047 60	
	<hr/>	\$1,668 60
		<hr/> <hr/>

SUPPORT OF POOR.

Credit.

APPROPRIATIONS, amount assessed,		\$14,000 00
CASH, received for support of paupers :—		
Of city of Boston,	\$677 22	
“ Cambridge,	46 86	
“ Chelsea,	53 15	
“ Lawrence,	131 55	
“ Lowell,	15 55	
Town of Andover,	46 97	
“ Arlington,	126 85	
“ Bridgewater,	40 41	
“ Canton,	7 75	
“ Medford,	2 00	
“ Melrose,	15 00	
“ Milford,	6 00	
“ Nantucket,	24 55	
“ Natick,	118 90	
“ Wakefield,	10 50	
“ Woburn,	111 70	
	<hr/>	
<i>Amounts carried forward,</i>	\$1,434 96	\$14,000 00

<i>Amounts brought forward,</i>	\$1,434 96	\$14,000 00
State of Massachusetts,	490 50	
Abigail O'Brien, board of son in hospital,	50 61	
J. W. Forbush, wood,	2 40	
	<hr/>	\$1,978 47
EXCESS AND DEFICIENCY, balance to debit of account,		97 25
		<hr/>
		\$16,075 72

Debit.

CASH, paid State of Massachusetts, support of paupers,	\$636 08	
State Hospital for the insane, sup- port of paupers,	1,299 63	
Taunton Lunatic Hospital, support of paupers,	180 12	
Worcester Lunatic Hospital, sup- port of paupers,	1,147 92	
Asylum for Chronic Insane, sup- port of paupers,	188 46	
City of Boston, support of paupers,	1,073 76	
“ Cambridge, “ “	207 95	
“ Lawrence, “ “	27 10	
“ Lowell, “ “	500 05	
“ Lynn, “ “	5 50	
“ Taunton, “ “	39 02	
Town of Braintree, support of paupers,	99 22	
Town of Canton, support of pau- pers,	127 57	
Town of Holliston, support of pau- pers,	156 00	
Town of Melrose, support of pau- pers,	166 00	
<i>Amounts carried forward,</i>	<hr/>	\$5,854 38
		<hr/>
		\$16,075 72

<i>Amounts brought forward,</i>	\$5,854 38	\$16,075 72
Town of Malden, support of paupers,	10 00	
Town of Marlborough, support of paupers,	267 00	
Town of Nantucket, support of paupers,	30 09	
Town of Peabody, support of paupers,	5 30	
Massachusetts General Hospital, support of paupers,	158 00	
C. J. Adams, support of sundry persons in the House of Correction,	60 87	
City of Chelsea, burial of paupers,	27 00	
J. F. McEvoy, legal services,	21 70	
Sturtevant Bros., beef, etc.,	234 97	
Orders,	107 25	
Hennessey Bros., orders,	31 00	
C. A. Small & Co., "	75 75	
L. Stockbridge, "	2 50	
L. W. White, "	33 39	
H. W. Burgess, "	5 00	
G. H. Sallaway, "	3 00	
C. H. North & Co., "	12 75	
Mrs. Jenness, "	9 00	
P. T. O'Brien, "	9 25	
H. Wellington & Co., fuel,	1,211 76	
J. J. Underhill, "	464 88	
J. E. Perkins, "	8 13	
J. F. Ayer, wood,	75 00	
J. C. Davidson, teaming fuel, etc.,	304 47	
Martin Binney, " " "	29 04	
J. H. Brooks, dry goods,	75 55	
W. Schuebeler, "	14 50	
<i>Amounts carried forward,</i>	\$9,141 53	\$16,075 72

<i>Amounts brought forward,</i>	\$9,141 53	\$16,075 72
J. W. Brine, clothing,	11 62	
Philip Eberle, boots and shoes,	515 30	
Belknap & Boynton, provisions,	654 57	
Conant, Sanborn & Webber, groceries,	525 91	
Roberts, Cochrane & Co., groceries,	651 03	
T. N. Snow, potatoes,	245 34	
T. A. Shedd, crackers,	118 96	
P. Curtiss, fish,	194 40	
Hewey, Skillins & Co., meal,	21 70	
J. W. Roberts & Co., provisions,	81 30	
Baldwin, Farnum & Shapleigh, pork,	69 00	
Mansur & Whiting, crackers,	93 34	
C. F. Crosby, beans,	6 75	
L. Buck, boots,	3 50	
C. Holmes & Son, stove work,	90	
Howe & Flint, stove work, etc.,	6 50	
S. J. Wood, filing saws,	50	
H. A. Pratt, carriage hire,	7 50	
L. H. Brown, " "	2 00	
S. D. Carter, meals furnished,	4 00	
Thos. Cunningham, milk, .	11 94	
John Mallory, "	3 06	
Mrs. O'Brien, "	2 10	
Geo. H. Cowdin, medicine,	10 00	
Thorpe's Express, expressing,	8 25	
W. J. London, "	25	
Moynahan & Co., stove,	6 00	
Charles O'Neil, soap, etc.,	89 04	
Rand & Byam, "	17 81	
A. L. Sanborn, carriage hire,	10 00	
Ansel Lewis, transportation of paupers,	37 24	
<i>Amounts carried forward,</i>	\$12,551 34	\$16,075 72

<i>Amounts brought forward,</i>	\$12,551 34	\$16,075 72
Ansel Lewis, travelling expenses,	42 40	
H. B. Runey, undertaker's services,	62 50	
P. H. Rafferty & Co., " "	120 50	
W. A. Flaherty, " "	25 50	
Clark Bennett, premium of insurance,	7 50	
City of Boston, water rates,	6 00	
J. O. Hayden & Co., printing,	22 75	
Thomas Cunningham, amount for aid to paupers,	2 50	
Steele & Webster, teaming,	7 98	
M. R. Warren, stationery,	20 66	
H. W. Raymond, hardware,	14 10	
Giles & Prescott, bedding,	4 00	
Flynn Bros., upholstering,	6 00	
Codman & Shurtleff, truss,	2 00	
M. E. Nowlin, rent and board,	332 41	
L. S. Gammons, " "	18 00	
A. J. Wilson, " "	149 57	
Wm. Holbrook, " "	60 00	
Mrs. Henry McAvoy, board of paupers,	111 53	
William E. Littefield, board of paupers,	192 00	
Edward Montague, board of paupers,	37 28	
Sarah Monahan, board of paupers,	5 00	
C. F. Clark, " "	31 55	
G. W. Gage, " "	70 35	
Mary Sullivan, " "	20 00	
Zylpah Shaw, rent,	66 00	
P. W. Skinner, " "	20 00	
B. Hagan, " "	42 00	
M. Terry, " "	99 50	
<i>Amounts carried forward,</i>	\$14,150 92	\$16,075 72

<i>Amounts brought forward,</i>	\$14,150 92	\$16,075 72
Hugh Gallagher, rent,	63 00	
M. J. McCarron, “	48 00	
Margaret McCarty, “	48 00	
Jeremiah McCarty, “	50 00	
Chas. O’Neil, “	33 00	
James Gallagher, “	29 00	
Peter Scott, “	60 00	
Bridget Conlon, “	39 00	
L. Marrett, “	4 50	
Catherine Dillon, “	10 00	
Patrick McDermott, “	8 00	
Thomas Kelley, “	7 00	
John Keiley, “	12 00	
John Stackpole, “	22 00	
Hugh Gill, “	18 00	
M. G. Steele, “	3 30	
Warren Pollard, “	8 00	
E. T. McIntire, “	12 00	
Hannah Gallagher, “	12 00	
Sally Bailey, “	33 00	
Thomas Cunningham, overseer of the poor,	300 00	
F. G. Williams, overseer of the poor,	300 00	
Ansel Lewis, overseer of the poor,	300 00	
Ansel Lewis, storekeeper,	300 00	
Thos. Cunningham, secretary of overseers of the poor,	200 00	
		<u>\$16,075 72</u>

TAXES.**Credit.**

CASH, received taxes for 1878,	\$89 40	
1879,	28,663 90	
1880,	90,104 97	
1881,	313,406 40	
		<u>\$432,264 67</u>
<i>Amount carried forward,</i>		<u>\$432,264 67</u>

<i>Amount brought forward,</i>		\$432,264 67
REAL-ESTATE LIENS, titles to the city for non-payment of taxes of 1879,		456 50
OVERLAY AND ABATEMENT, abatement on taxes for 1879,	\$792 20	
1880,	1,042 15	
1881,	5,553 55	
	<hr/>	7,387 90
BALANCE, to debit in account of 1882, being uncollected taxes for 1878,	\$58 90	
1880,	31,976 28	
1881,	\$133,985 50	
	<hr/>	166,020 68
		<hr/>
		\$606,129 75

Debit.

BALANCE, from 1880,	\$153,169 10	
APPROPRIATIONS, amount assessed for current expenses,	410,528 94	
STATE OF MASSACHUSETTS, amount as- sessed for State tax,	23,160 00	
COUNTY OF MIDDLESEX, amount as- sessed for county tax,	11,638 19	
OVERLAY AND ABATEMENT, amount added by the assessors,	7,618 32	
Additional tax of 1878,	15 20	
	<hr/>	\$606,129 75
		<hr/>

TEMPORARY LOANS.**Credit.**

BALANCE, from 1880,		\$210,000 00
CASH, borrowed by authority of the City Council, on city notes, and of the following-named: —		
April 1. — Maverick National Bank, on 8 months, at 4¼ per cent,	\$100,000 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$100,000 00	\$210,000 00

<i>Amounts brought forward,</i>	\$100,000 00	\$210,000 00
April 9. — Maverick National Bank, on 8 months, at $4\frac{1}{4}$ per cent,	100,000 00	
Aug. 2. — Blake Brothers & Co., on 4 months, at 3 per cent,	20,000 00	
Sept. 9. — Blake Brothers & Co., on 3 months, at $4\frac{1}{2}$ per cent,	10,000 00	
Sept. 9. — Jacob T. Glines, on 3 months, at $4\frac{1}{2}$ per cent,	5,000 00	
Sept. 30. — American Loan and Trust Co., on 3 months, at 5 per cent,	75,000 00	
Oct. 11. — Warren Institution for Savings, on 2 months, at $4\frac{3}{4}$ per cent,	10,000 00	
Dec. 27. — Charles R. Ransom, on 6 months, at $4\frac{3}{4}$ per cent,	10,000 00	
Dec. 27. — Boston Five Cents Savings Bank, on 6 months, at $4\frac{3}{4}$ per cent,	90,000 00	
Dec. 27. — Jacob T. Glines, on 6 months, at $4\frac{3}{4}$ per cent,	5,000 00	
Dec. 27. — Warren Institution for Savings, on 6 months, at $4\frac{3}{4}$ per cent,	20,000 00	
Dec. 28. — American Loan and Trust Co., on 6 months, at $4\frac{3}{4}$ per cent,	65,000 00	
	<hr/>	510,000 00

\$720,000 00

Debit.

CASH, paid the following-named: —

April 16. — Boston Five Cents Savings Bank, note dated Dec. 13, 1880,

\$80,000 00

Amounts carried forward,

\$80,000 00

\$720,000 00

<i>Amounts brought forward,</i>	\$80,000 00	\$720,000 00
April 16. — Union Institution for Savings, note dated Dec. 13, 1880,	50,000 00	
May 3. — Through National Security Bank, note dated Dec. 31, 1880,	10,000 00	
Dec. 1. — Essex Savings Bank, notes dated April 1, 1881,	60,000 00	
Dec. 4. — Through National Security Bank, notes dated April 1, Note dated Aug. 2,	20,000 00 20,000 00	
Dec. 11. — Warren Institution of Savings, note dated Oct. 11,	10,000 00	
Dec. 12. — Lynn Savings [Bank, note dated Sept. 9, Through National Security Bank, notes dated April 9,	10,000 00 100,000 00	
Dec. 27. — Jacob T. Glines, note dated Sept. 9, Boston Five Cents Savings Bank, note dated Dec. 13, 1880, Notes dated April 1, 1881,	5,000 00 70,000 00 20,000 00	
Dec. 30. — Lynn Savings Bank, note dated Sept. 30,	25,000 00	
Dec. 30. — Maverick National Bank, note dated Sept. 30,	25,000 00	
Dec. 30. — First National Bank, note dated Sept. 30,	25,000 00	
	<hr/>	
	\$530,000 00	
BALANCE, to credit in account of 1882,	190,000 00	
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		\$720,000 00
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WATERING STREETS.

Credit.

APPROPRIATIONS, amount assessed,		\$4,000 00
CASH, received of sundry persons as their proportional part of the cost of watering, through		
Charles W. Sawyer,	\$20 00	
John P. Prichard,	302 50	
J. F. Wellington,	655 00	
Hiram A. Pratt,	1,832 55	
	<hr/>	2,810,05
		<hr/>
		\$6,810 05

Debit.

CASH, paid Geo. W. Prichard, water- ing,	\$394 45	
Martin Gill, watering,	378 70	
John McCauley, “	400 75	
J. F. Elkins, “	382 55	
John Downey, “	311 85	
Henry Gray, “	371 35	
Jeremiah McCarthy, watering,	296 80	
Christopher Burke, “	309 40	
J. P. Prichard, superintendence,	100 00	
Boston Belting Co., hose,	47 55	
Highways account, painting carts,	57 35	
Watering,	29 75	
Dodge, Gilbert & Co., springs,	3 00	
Wood, Bailey & Wood, wheels, etc.,	157 55	
A. Howe & Co., water cart,	55 00	
C. Holmes & Son, tin tubes, etc.,	2 00	
Walworth Mfg. Co., stand post,	10 00	
W. J. Slade & Son, watering tubs and repairing sprinkler,	172 25	
	<hr/>	
<i>Amounts carried forward,</i>	\$3,480 30	\$6,810 05

<i>Amounts brought forward,</i>	\$3,480 30	\$6,810 05
W. W. Sawyer, wheelwright work, etc.,	312 00	
T. B. Wilson, repairing hose,	20	
F. Dooris, blacksmithing,	1 12	
T. McIntire, Jr., lettering,	4 00	
S. Dodge, blacksmithing,	23 71	
H. G. Collins, repairing water cart,	75	
R. A. Melvin & Co., carpenter work,	13 50	
S. W. Fuller, lumber,	65 25	
Water Service account, repairing standpipes, etc.,	77 90	
City of Boston, water,	2,189 37	
J. O. Hayden & Co., advertising,	14 40	
	<u>\$6,182 50</u>	
EXCESS AND DEFICIENCY, balance to credit of account,	627 55	<u>\$6,810 05</u>
WATER MAINTENANCE.		
	Credit.	
APPROPRIATIONS, amount assessed,		\$18,500 00
CASH, received of city of Boston, return on water rates : —		
1880. 40 per cent on \$2,829.78,	\$1,131 91	
1881. 15 per cent on \$20,000,	3,000 00	
20 per cent on \$10,000,	2,000 00	
25 per cent on \$10,00	2,500 00	
30 per cent on \$10,000,	3,000 00	
40 per cent on \$7,663.64,	3,065 46	
American Loan and Trust Com- pany, premium on water loan bonds sold them,	3,722 50	
Fire Association of Philadelphia, damage to water works building by fire,	44 32	
<i>Amounts carried forward,</i>	<u>\$18,464 19</u>	<u>\$18,500 00</u>

<i>Amounts brought forward,</i>	\$18,464 19	\$18,500 00
Howe & Flint, amount of bill approved and paid a second time,	1 08	
Eben. Webb, old sheet iron,	40 00	
Frank Hennick, " "	14 96	
Somerville Iron Foundry, old sheet iron,	22 40	
Edward Foote, pipe,	5 78	
J. P. Squire & Co., pipe,	41 17	
Massachusetts General Hospital, gate covers,	63 50	
Sewers account, labor,	70 50	
R. Falvey, " "	2 00	
Patrick Terry, puddling trench,	2 00	
S. & M. Buttemer, " "	2 00	
		18,729 58
WATER SERVICES, transferred,		1,018 93
		<u>\$38,248 51</u>

Debit.

CASH, paid interest on Water Loan bonds,		
\$145,000 at 6½ per cent,	\$9,425 00	
\$20,000 at 6 per cent,	1,200 00	
\$70,000 at 5½ per cent,	3,850 00	
\$100,000 at 5 per cent,	5,000 00	
		\$19,475 00
Less coupons unpaid,	275 00	
		<u>\$19,200 00</u>
Paid laborers,	5,558 11	
N. Dennett, salary as superintendent,	1,200 00	
E. S. Conant, salary as clerk of Water Board,	100 00	
<i>Amounts carried forward,</i>	<u>\$26,058 11</u>	<u>\$38,248 51</u>

<i>Amounts brought forward,</i>	\$26,058 11	\$38,248 51
Walworth Mfg. Co., fittings,	83 64	
F. B. Austin & Co., iron,	1,094 55	
H. Wellington & Co., cement and coal,	418 22	
Boston Machine Co., gates, etc.,	333 95	
Cook, Rymes & Co., cone pat- terns, etc.,	530 95	
J. S. Newell & Co., repairing drill, etc.,	8 75	
C. Holmes & Son, hardware, etc.,	49 81	
Sunmer & Goodwin, wrenches, etc.,	10 73	
Stultz & Mansur, furnace,	7 50	
Crosby Steam Gauge and Valve Co., gauge,	5 00	
Pattee & Perkins, hydrants,	445 00	
Somerville Iron Foundry, castings,	709 59	
Sherburne & Co., waste,	2 75	
Coffin Valve Co., hydrants,	192 00	
Braman, Dow & Co., pipe,	88 72	
A. J. Wilkinson, emery cloth and padlocks,	12 14	
City of Boston, pipe,	18 87	
Sewers account, “	1 00	
Davis & Farnham Mfg. Co., ser- vice boxes, etc.,	656 95	
Dodge, Gilbert & Co., files,	8 45	
Hunneman & Co., couplings,	7 00	
Jas. H. Work, bolts,	102 42	
Dover Stamping Co., snips,	6 00	
Fuller, Dana & Fitz, “	3 90	
Conant, Sanborn & Webber, salt,	19 62	
J. C. Warren, freight and team- ing,	28 00	
James Cogan, collar,	6 50	
<i>Amounts carried forward,</i>	<u>\$30,920 12</u>	<u>\$38,248 51</u>

<i>Amounts brought forward,</i>	\$30,920 12	\$38,248 51
E. I. Train & Co., powder,	2 25	
Seward Dodge, blacksmithing,	262 60	
J. Breck & Sons, shovels,	44 88	
Sturtevant Bros., use of horse,	12 25	
L. H. Brown, care and use of horse and wagon,	7 00	
T. B. Adams & Co., leather,	5 37	
Cambridge Gas Light Co., gas,	27 28	
J. Leland, wheelright work,	60 00	
John F. Brine, fuel,	3 45	
Sewall & Day Cordage Co., oak- um, etc.,	15 96	
City of Boston, water rate,	20 00	
E. H. Bright, freight on hydrants,	77	
Bagnall & Loud, blocks and ropes,	15 85	
Geo. H. Cowdin, drugs,	2 03	
John H. Hanley, charcoal,	16 20	
John T. Hanley, “	5 40	
John McCarty, “	3 20	
John F. Cole, expenses to New Jersey, for water board,	21 50	
J. O. Hayden & Co., printing,	5 00	
Hooper, Lewis & Co., stationery,	15 65	
Powers, Melvin & Co., grain,	201 15	
Nathan Tufts & Son, “	67 00	
C. H. Tufts, painting,	19 50	
Ames Plow Co., wheelbarrow,	5 50	
Bogman & Vinal, nails,	10 50	
Greenough & Co., directory,	2 00	
J. H. Brooks, drilling,	2 78	
J. B. Plummer & Co., brooms,	3 00	
Moses Coleman & Co., horse,	200 00	
Harry Thorpe, rubber boots,	21 25	
Philip Eberle, “ “	3 25	
<i>Amounts carried forward,</i>	\$32,002 69	\$38,248 51

<i>Amounts brought forward,</i>	\$32,002 69	\$38,248 51
Hill & Langtry, horse blankets, etc.,	29 55	
T. B. Wilson, harness work,	36 98	
G. M. J. Wilson, " "	5 25	
N. L. Pennock, " "	1 50	
Highways account, edge stone and paving,	39 60	
Edward O'Brien, horse-shoeing,	2 00	
Charles Maguire, " "	6 00	
Worthley, Downes & Co., rubber mittens,	10 50	
H. M. Miller, painting wagon,	18 50	
Edmands & Co., drain pipe,	2 85	
Thomas Hollis, sponge, etc.,	2 15	
A. H. Davenport, mat, etc.,	4 00	
Hosmer, Crampton & Hammond, hay,	140 77	
Harvey Skillings & Co., straw, etc.,	19 91	
J. C. Story & Co., oil,	18 00	
Sturtevant Bros., " "	4 05	
Downer Oil Co., " "	1 20	
H. W. Raymond, hardware, etc.,	11 17	
M. C. Warren & Co., " "	6 00	
E. D. Sawyer & Co., lumber,	30 07	
C. P. Ladd & Co., " "	2 00	
P. F. Williams, " "	151 50	
G. W. Prichard, building cellar, etc.,	58 00	
C. J. Simpson, sand,	7 50	
E. R. Perham, expressing,	25	
John D. Hills, carpenter work,	297 05	
D. P. Bucknam, mason work,	33 00	
Ansel Lewis, repairing door,	6 00	
<i>Amounts carried forward,</i>	\$32,938 04	\$38,248 51

<i>Amounts brought forward,</i>	\$32,938 04	\$38,248 51
J. Q. Twombly, glazing,	1 00	
	<u>\$32,939 04</u>	
SUNDRY PERSONS, coupons unpaid, as above,	275 00	
	<u>\$33,214 04</u>	
EXCESS AND DEFICIENCY, balance to credit of account,	5,034 47	
	<u>\$38,248 51</u>	

WATER SERVICES.

Credit.

CASH, received of Watering Streets account, repairing standpipes, etc.,		\$77 90
E. G. Woodward, pipe, etc.,		8 75
Lydia Morrell, “		5 00
Clark Bennett, “		6 63
Erastus Hobart, “		14 93
T. B. Blaikie, “		19 32
C. H. North, “		24 45
J. C. Barrus, “		7 60
School-House Repairs account, pipe, etc.,		110 80
School-House (Lincoln) on Clarendon Hill account, pipe, etc.,		40 25
Town of Arlington, labor, etc.,		13 63
		<u>\$329 26</u>
WATER SERVICE ASSESSMENTS, cost of service pipes laid,		2,730 32
		<u>\$3,059 58</u>

Debit.

CASH, paid laborers,	\$535 49	
Walworth Mfg. Co., fittings,	236 24	
Stultz & Mansur, “	71 72	
Dalton & Ingersoll, “	52 86	
	<u>\$896 31</u>	
<i>Amounts carried forward,</i>	\$896 31	\$3,059 58

<i>Amounts brought forward,</i>	\$896 31	\$3,059 58
Boston Lead Mfg. Co., lead and pipe,	49 83	
Geo. Woodman & Co., pipe,	20 28	
Braman, Dow & Co., “	602 83	
Sumner & Goodwin “	366 81	
Chadwick Lead Works, “	48 97	
Boston Belting Co., rubber rings, etc.,	27 00	
Somerville Iron Foundry, clamps,	7 86	
Hill & Langtry, washers,	6 52	
Howe & Flint, pipe, etc.,	4 49	
Joseph N. Gibbs, powder, etc.,	2 25	
J. C. Warren, teaming,	3 00	
J. A. Cummings & Co., printing,	3 00	
J. O. Hayden & Co., “	1 50	
	<hr/>	
	\$2,040 65	
WATER MAINTENANCE, credit balance transferred,	1,018 93	
	<hr/>	
		\$3,059 58
		<hr/> <hr/>

WATER SERVICE ASSESSMENTS.

Credit.

CASH, received of sundry persons for water services,	\$2,307 29
BALANCE, to debit in account of 1882,	836 83
	<hr/>
	\$3,144 12

Debit.

BALANCE, from 1880,	\$413 80
WATER SERVICES, service pipes laid in 1881,	2,730 32
	<hr/>
	\$3,144 12
	<hr/> <hr/>

Table D.

BALANCES DEC. 31, 1881.

Cash,	\$14,321 76	
Excess and Deficiency,		\$9,067 54
Funded Debt,		1,585,000 00
Highway Betterment Assessments,	1,945 26	
Overlay and Abatement,		49 62
Overplus on Tax Sales,		67 00
Property and Debt Balance,	430,000 00	
Public Park,		351 32
Public-Park Betterment Assessments,	786 91	
Public Property,	1,155,000 00	
Real-Estate Liens,	2,007 30	
Sewer Assessments,	7,470 26	
Sidewalk Assessments,	1,534 58	
State of Massachusetts, — Indigent Soldiers and Sailors,	1,004 00	
State of Massachusetts, — State Aid,	4,655 50	
Sundry Persons,		1,047 60
Taxes,	166,020 68	
Temporary Loans,		190,000 00
Water Service Assessments,	836 83	
	<u>\$1,785,583 08</u>	<u>\$1,785,583 08</u>

REPORT
OF
COMMISSIONERS OF THE SINKING FUNDS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, FEB. 8, 1882.

Received and ordered to be printed in the Annual Report of 1881. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, FEB. 8, 1882.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN BOARD OF COMMISSIONERS OF THE SINKING FUNDS,
Jan. 31, 1882.

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

GENTLEMEN,—The undersigned present herewith their sixth annual report as Commissioners of the Sinking Funds of this city. The amount of the funds Jan. 25, 1881, as per

report of that date, was, \$253,764 95

The increase during the year 1881 was,—

Contribution by the city, for the year, 45,525 00

Interest on city bonds in sinking fund, 12,772 50

Interest on deposits in banks, 201 14

Total sinking funds at this date, \$312,263 59

Invested as follows:—

In bonds of the city of Somerville, \$264,500, at 5
per cent, and \$44,500, at 5½ per cent, \$309,000 00

Deposited in banks and drawing interest, 3,263 59

\$312,263 59

Respectfully submitted,

NATHAN TUFTS,
JOHN A. HUGHES, } *Commissioners.*
HENRY F. WOODS, }

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5408 SOUTH DICKENS STREET
CHICAGO, ILLINOIS 60637
TEL: 773-936-3700
WWW.CHEM.UCHICAGO.EDU

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF SOMERVILLE,

FOR THE

YEAR 1881.

CITY OF SOMERVILLE.

IN SCHOOL COMMITTEE, Dec. 31, 1881.

The Superintendent submitted his annual report, which was read and accepted. It was voted that the committee adopt the report now submitted by the Superintendent of the Public Schools, and present it to their fellow-citizens as the report of the School Committee for the year 1881.

J. H. DAVIS, *Secretary.*

IN BOARD OF ALDERMEN, Feb. 14, 1882.

Referred the report to the Committee on Printing, to be printed in the Annual Reports of 1881. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 16, 1882.

Referred the report to the Committee on Printing, to be printed in the Annual Reports of 1881, in concurrence.

DOUGLAS FRAZAR, *Clerk.*

BOARD OF SCHOOL COMMITTEE, 1881.

HON. JOHN A. CUMMINGS,

Mayor, *ex officio*.

MARK F. BURNS, Esq.,

President of Common Council, *ex officio*.

WARD ONE.

JOHN H. BUTLER	Term expires Dec. 31, 1881.
HENRY M. MOORE	“ “ 1882.
HORACE C. WHITE, M. D.	“ “ 1883.

WARD TWO.

OREN S. KNAPP	Term expires Dec. 31, 1881.
ALPHONZO H. CARVILL, M. D.	“ “ 1882.
REV. ALBERT E. WINSHIP	“ “ 1883.

WARD THREE.

HENRY F. WOODS	Term expires Dec. 31, 1881.
NORMAN W. BINGHAM	“ “ 1882.
QUINCY E. DICKERMAN	“ “ 1883.

WARD FOUR.

HENRY C. BUCK	Term expires Dec. 31, 1881.
PROF. BENJ. G. BROWN	“ “ 1882.
REV. CHAS. M. SMITH, D. D.	“ “ 1883.

Chairman,

HON. J. A. CUMMINGS.

Superintendent and Secretary,

J. H. DAVIS.

STANDING COMMITTEES, 1881.

- On the High School,**
MESSRS. BROWN, WOODS, SMITH, BINGHAM, WINSHIP, WHITE.
- On Schools in East Somerville District,**
MESSRS. BUTLER, MOORE, WHITE, BURNS.
- On Schools in Prospect Hill District,**
MESSRS. CARVILL, KNAPP, WINSHIP.
- On Schools in Winter Hill District,**
MESSRS. BINGHAM, WOODS, DICKERMAN.
- On Schools in Spring Hill District,**
MESSRS. SMITH, BROWN, BUCK.
- On Schools in West Somerville,**
MESSRS. BUCK, BROWN, SMITH.
- On Evening Schools,**
MESSRS. CARVILL, BUCK, BURNS.
- On Examination of Teachers,**
MESSRS. BUTLER, KNAPP, SMITH.
- On Text-Books,**
MESSRS. BUTLER, BROWN, DICKERMAN, CARVILL, WINSHIP.
- On Repairs, Furniture, Heating Apparatus,**
MESSRS. MOORE, CARVILL, BINGHAM, BUCK, BURNS.
- On School Supplies,**
MESSRS. WOODS, WHITE.
- On Fuel,**
MESSRS. BUCK, BINGHAM.
- On Music,**
MESSRS. BINGHAM, BROWN, DICKERMAN, WHITE.
- On Finance,**
MESSRS. MOORE, KNAPP.
- On Drawing and Penmanship,**
MESSRS. DICKERMAN, WOODS, CARVILL, BUTLER.
- On Salaries,**
MESSRS. KNAPP, SMITH, WOODS, MOORE, BUCK, WINSHIP.
- On Examination of First Class,**
MESSRS. KNAPP, SMITH.
- On Examination of Second Class,**
MESSRS. BUTLER, WOODS.
- On Examination of Third Class,**
MESSRS. MOORE, WINSHIP.
- On Examination of Fourth Class,**
MESSRS. BROWN, CARVILL.
- On Examination of Fifth Class,**
MESSRS. BINGHAM, WHITE.
- On Examination of Sixth Class,**
MESSRS. DICKERMAN, BUCK, BURNS.

BOARD OF SCHOOL COMMITTEE, 1882.

HON. JOHN A. CUMMINGS,

Mayor, Chairman, *ex officio*.

ALBION A. PERRY,

President of Common Council, *ex officio*.

WARD ONE.

HENRY M. MOORE	Term expires 1882.
HORACE C. WHITE, M. D.	“ 1883.
JOHN H. BUTLER	“ 1884.

WARD TWO.

ALPHONZO H. CARVILL, M. D.	Term expires 1882.
REV. A. E. WINSHIP	“ 1883.
OREN S. KNAPP	“ 1884.

WARD THREE.

NORMAN W. BINGHAM	Term expires 1882.
Q. E. DICKERMAN	“ 1883.
HENRY F. WOODS	“ 1884.

WARD FOUR.

PROF. BENJ. G. BROWN	Term expires 1882.
REV. C. M. SMITH, D. D.	“ 1883.
MISS HARRIET M. PITMAN	“ 1884.

J. H. DAVIS,

Superintendent and Secretary.

STANDING COMMITTEES, 1882.

On the High School,
MESSRS. BROWN, SMITH, BINGHAM, WINSHIP, WHITE, DICKERMAN.

On Schools in East Somerville District,
MESSRS. WHITE, MOORE, BUTLER.

On Schools in Prospect Hill District,
MESSRS. WINSHIP, KNAPP, CARVILL.

On Schools in Winter Hill District,
MESSRS. DICKERMAN, WOODS, BINGHAM, PERRY.

On Schools in Spring Hill District,
MESSRS. SMITH, BROWN, MISS PITMAN.

On Schools in West Somerville,
MESSRS. BROWN, SMITH, MISS PITMAN.

On Evening Schools,
MESSRS. WINSHIP, WHITE, PERRY.

On Examination of Teachers,
MESSRS. KNAPP, BUTLER, SMITH, MISS PITMAN.

On Text-Books,
MESSRS. WHITE, KNAPP, BINGHAM, MISS PITMAN.

On Repairs, Furniture, Heating Apparatus,
MESSRS. MOORE, CARVILL, PERRY, BROWN.

On School Supplies,
MESSRS. WOODS, BUTLER.

On Fuel,
MESSRS. CARVILL, PERRY.

On Music,
MISS PITMAN, MESSRS. BINGHAM, CARVILL, WHITE.

On Finance,
MESSRS. KNAPP, MOORE.

On Drawing and Penmanship,
MESSRS. BUTLER, WOODS, CARVILL, DICKERMAN.

On Salaries,
MESSRS. BUTLER, SMITH, WOODS, MOORE, WINSHIP, KNAPP.

On Examination of First Class,
MESSRS. SMITH, KNAPP.

On Examination of Second Class,
MESSRS. BUTLER, WOODS.

On Examination of Third Class,
REV. A. E. WINSHIP, MISS PITMAN.

On Examination of Fourth Class,
MESSRS. MOORE, BROWN.

On Examination of Fifth Class,
MESSRS. BINGHAM, WHITE, CARVILL.

On Examination of Sixth Class,
MESSRS. PERRY, DICKERMAN, MISS PITMAN.

SUPERINTENDENT'S REPORT.

To the School Committee of Somerville :

GENTLEMEN,— In compliance with the requirements of your regulations, I respectfully present the following report of the public schools of the city, for the year 1881.

POPULATION AND VALUATION.

Population of the city, United States census, 1880	24,985
Valuation of the city, May 1, 1881	\$22,569,100
Personal estate	\$2,213,000
Real estate	\$20,356,100
Estimated value of school property	\$344,432

SCHOOL POPULATION.

Whole number of persons in the city between five and fifteen years of age, on the first day of May last, 4,204.

In Ward One	1,294
" Two	1,354
" Three	732
" Four	824

No material changes in the general structure or arrangement of the schools have been effected or required during the year; but modifications of specific methods of instruction, revisions of the course of study, and various changes in the minor details of school work, are frequently occurring.

EXPENDITURES FROM JAN. 1, 1881, TO JAN. 1, 1882.

BY THE CITY COUNCIL.

Repairs, insurance, rent of school-		
rooms	\$7,287	79
Fuel	3,797	07
		<hr/>
		\$11,084 86

BY THE SCHOOL COMMITTEE.

Teachers' salaries	\$62,136	15
Superintendent's salary	1,800	00
Janitors' salaries	3,247	00
Truant officers' salaries	75	00
Water	563	00
Gas	193	00
Books	565	00
Printing	250	00
Writing books	385	00
Stationery and other school supplies .	830	00
Miscellaneous	1,231	90
		<hr/>
		71,276 05
Total expenditures	\$82,360	91

RECEIPTS.

Tuition of non-resident pupils	\$110	00
Rent of school halls	622	50
		<hr/>
		732 50
Net expenditures	\$81,628	41

SCHOOLS.

At the beginning of the school year in September, two grammar schools were discontinued in Prospect Hill district, and one grammar school was organized in West Somerville district. Previous to the beginning of the present school year, the first and second classes of the Forster School had occupied the same school-room. In September, a separate room was assigned to each of those classes, causing an increase of one school in the Forster School-House.

Whole number of schools	82
High School	1
Grammar schools	46
Primary schools	35

SCHOOL-HOUSES.

Forster School-House. — During the summer vacation, two school-rooms were constructed in the hall of the Forster School-House. That building now contains ten school-rooms, all of which are occupied by schools.

Lincoln School-House. — In the long vacation, the Lincoln School-House, which contains four school-rooms, was moved from Elm Street to its present location on Clarendon Hill.

Previous to the erection of that building, in 1866, a school-house located at the foot of Walnut Hill, and containing a single school-room, afforded sufficient school accommodations for the section of the city situated west of Willow Avenue.

The Lincoln School-House was first occupied in March, 1867. It then contained two schools. A third school was added in 1871, and a fourth in 1872.

Highland School-House. — This building, located at the corner of Highland Avenue and Grove Street, West Somerville, was begun in October, 1880, and completed in September, 1881. It was constructed under the supervision of the Committee on Public Property, consisting of Aldermen E. C. Clark and G. T. Burnham, and Councilmen W. E. Shedd, J. F. Wellington, and A. A. Perry.

The building has a frontage of seventy-three feet on Highland Avenue, and a depth of seventy-eight feet. It is two stories high, exclusive of the basement. Each of the two stories has four school-rooms, twenty-eight feet by thirty-two feet, and thirteen feet high in the clear. Adjacent to each school-room is a spacious dressing-room for the pupils and a room for the teacher. Each dressing-room communicates with its school-room and also with the corridor, and serves as a passageway for pupils in entering and leaving their school-room. The corridors are twelve feet wide, and extend from the front to the rear of the building. The stairways are large, light, and of easy grade.

The basement is eleven feet high, and is light and airy. It contains water-closets, a room for fuel, and four play-rooms, corresponding in size to the school-rooms, for the use of pupils in stormy weather. The walls and partitions are of brick. The ex-

terior walls are faced with pressed brick and are ornamented with freestone belt courses, window caps, and sills. The inside finish is ash, with Southern pine for floors, platforms, and stairs.

The plans and specifications were furnished by Samuel D. Kelley, Esq., of this city. The contractors were L. P. Soule, Esq., for the masonry, and W. B. Stinson, Esq., for the carpentry. The building is heated by four of Magee's portable furnaces, one in each play-room. These were furnished by J. A. Durell, Esq. The furniture for teachers and pupils was manufactured by A. G. Whitcomb, Esq.

The schools, eight in number, first occupied the building on Monday, Sept. 12.

Cost of the building,	\$26,366 28
“ lot, 23,260 feet,	4,186 80
“ grading,	276 27
“ heating apparatus,	976 90
“ furniture,	626 37
	<hr/>
Total cost,	\$32,432 62
	<hr/> <hr/>

ADDITIONAL ACCOMMODATIONS.

All parts of the city are now well supplied with convenient school accommodations, with the exception of East Somerville district. The necessities of that section of the city, which were minutely specified in the report of last year, have become still more urgent in consequence of the constant increase of population.

The lot of land on Cross Street, on which the Edgerly School-House is located, contains 26,480 feet, and is ample for the convenience of a large number of pupils. That building, which will soon be surrounded by a dense population, now contains four school-rooms, and is well arranged for enlargement. An increase of its capacity by the addition of four or six school-rooms would meet the present demand and the probable need of several years to come.

TABLE SHOWING THE LOCATION OF THE SEVERAL SCHOOL BUILDINGS, THE TIME OF THEIR ERECTION, THE NUMBER OF SCHOOL-ROOMS IN EACH, THE NUMBER OF FEET IN EACH SCHOOL LOT, AND THE ESTIMATED VALUE OF EACH BUILDING, INCLUDING LAND AND FURNITURE.

NAME.	LOCATION.	When erected.	No. feet in lot.	Estimated value.	No. of school-rooms.
High	Highland Avenue....	1871	.....	\$44,000	2
Forster.....	Sycamore Street.....	1866	32,693	41,500	10
Prescott.....	Pearl Street.....	1867	21,444	42,000	12
Edgerly.....	Cross Street.....	1871	26,428	25,500	4
Luther V. Bell,	Vinal Avenue.....	1874	22,262	43,000	12
Prospect Hill.	Washington Street..	1848	25,313	20,600	6
Brastow.....	Medford Street.....	1861	10,019	6,250	2
Bennett.....	Joy Street.....	1868	20,560	8,300	4
Jackson.....	Poplar Street.....	1861	11,212	8,300	4
Webster.....	Webster Avenue.....	1868	11,050	8,300	4
Union.....	Prospect Street.....	1842*	9,360	2,600	1
Morse.....	Summer Street.....	1869	29,109	26,000	6
Beech Street..	Beech Street.....	1872†	6,000	4,750	2
Spring Hill...	Rear of Harvard St..	1850	4,991	1,700	1
Franklin . . .	Somerville Avenue ..	1846	33,017	14,300	4
Harvard.....	Beacon Street.....	1851	9,810	2,600	1
Highland.....	Highland Avenue....	1880	23,260	32,432	8
Lincoln.....	Broadway.....	1866	17,662	11,500	4
Cedar Street..	Cedar Street.....	1843	.....	800	2
				\$344,432	89

* Before.

† Purchased.

TEACHERS.

The following changes have been made in the corps of teachers during the year: —

ELECTED.

- Miss Alice T. Couch, teacher in the Forster School.
 Miss Harriette H. Winslow, teacher in the Prescott School.
 Miss Hattie E. Boardman, assistant in the L. V. Bell School.
 Miss Alice E. Furber, teacher in the Spring Hill School.
 Miss Zillah E. Freeman, teacher in the Beech Street School.
 Miss L. A. Hayward, assistant in the Highland School.
 Miss Sarah F. Gibbs, teacher in the Highland School.
 Miss Alice P. Lord, teacher in the Highland School.

TRANSFERRED.

Miss A. A. Roberts, from the Prospect Hill School to the Bennett School.

Miss Helen Tincker, from the Bennett School to the L. V. Bell School.

Miss Ada L. Sanborn, from the Webster School to the Prospect Hill School.

Miss Lillian F. Howe, from the Prospect Hill School to the L. V. Bell School.

Miss Anna C. Damon, from the Prospect Hill School to the Jackson School.

RESIGNED.

Miss Nancy W. Proctor, teacher in the Prescott School.

Miss Clara A. Battles, teacher in the L. V. Bell School.

Miss Annie F. Hills, teacher in the Lincoln School.

SCHOOLS AND TEACHERS.

SCHOOLS.	TEACHERS.	SALARIES.	FIRST ELECTED.
High	George L. Baxter	\$2,200	1867
"	Frank M. Hawes	1,500	1879
"	Sarah W. Fox	1,050	1868
"	Sarah L. Graves	850	1865
"	Annette E. Long	850	1864
"	Sarah F. Litchfield	700	1880
"	Kate W. Cushing	700	1880
Forster	John S. Hayes	1,800	1878
"	Stella M. King	675	1877
"	Mary E. Northup	600	1878
"	Frances M. Guptill	600	1869
"	Alice A. Batchelor	575	1877
"	Nellie M. Whitney	575	1878
"	Martha H. Pennock	550	1873
"	Leila V. Colby	425	1879
"	Lizzie G. Perry	550	1878
"	Alice T. Couch	550	1881
Prescott	Gordon A. Southworth	1,900	1873
"	Anna M. Bates	675	1874
"	V. E. Hapgood	600	1876
"	Adelaide Reed	650	1877
"	Frank P. Hudson	600	1877
"	Abbie A. Anderson	600	1878
"	Amelia I. Sears	600	1873
"	Harriette H. Winslow	350	1881
"	Catharine T. Brown	575	1868
"	Clara Taylor	575	1871
"	Sarah E. Pratt	575	1877
"	Elgina M. Plummer	550	1877
"	Emma F. Schuh	550	1874
Edgerly	Augusta M. Cowles	625	1865
"	Harriet N. Sands	575	1864
"	Anna L. Prescott	550	1873
"	Clara M. Bagley	550	1873
Tufts Street	H. V. Hathaway	575	1875
"	Ada Cowles	550	1875
Luther V. Bell	Robert Bickford	1,700	1879
"	Hattie E. Boardman	625	1881
"	Minnie H. Marden	600	1876
"	Ellen M. Gooding	600	1868
"	Abbie C. Hunt	600	1873
"	Helen Tincker	600	1872
"	Lillian F. Howe	600	1876
"	May E. Berry	425	1880
"	Fannie A. Wilder	600	1874
"	Anna M. Snow	575	1866
"	Lydia J. Page	575	1869
"	Lizzie F. Appleton	550	1874
"	Augusta M. Houghton	550	1877

SCHOOLS AND TEACHERS. — *Continued.*

SCHOOLS.	TEACHERS.	SALARIES.	FIRST ELECTED.
Prospect Hill	Ada L. Sanborn.....	\$625	1869
“	Ellen Ledyard	575	1874
“	Ada I. Howe.....	425	1880
“	Charlotte I. Houghton ...	550	1875
Brastow.....	Sarah E. Pennock	575	1871
“	Lizzie D. Harding	550	1877
Bennett	Augusta A. Roberts.....	600	1861
“	Maria Miller.....	550	1870
“	Mary B. Currier	550	1873
Jackson	Nora O’Leary	600	1874
“	Anna C. Damon.....	550	1879
“	Maud M. Hobson	350	1879
“	Annie E. McCarty	350	1880
Webster.....	Annie L. Savage.....	550	1873
Union	Isabella M. Prince	550	1876
Morse	Charles C. Hunkins	1,600	1877
“	Nellie P. Nichols.....	600	1871
“	Pauline S. Downes.....	600	1872
“	Clara N. Burgess.....	600	1880
“	Anna E. Sawyer	575	1873
“	Carrie N. Sanderson	425	1880
Beech Street.....	Mary A. Haley.....	575	1868
“	Zillah E. Freeman	350	1881
Spring Hill.....	Alice E. Furber.....	350	1881
Franklin	Jane E. Clark.....	625	1873
“	Emeline C. Ruggles.....	550	1876
“	Hattie A. Hills.....	575	1874
Harvard.....	Annie E. Robinson.....	550	1876
Highland.....	George E. Nichols	1,500	1877
“	L. A. Hayward	625	1881
“	Jennie Colburn	600	1875
“	Georgiana Cutter.....	600	1873
“	Lizzie J. Conwell	575	1873
“	Sarah F. Gibbs	575	1881
“	Alice P. Lord	500	1881
“	Sarah E. Pray	550	1878
Lincoln.....	Mary A. Paul.....	575	1879
Cedar Street.....	Alice Simpson.....	575	1872
“	Alice M. Porter.....	425	1880
Teacher of Music...	S. H. O. Hadley	1,000	1868

Whole number of teachers	96
Male teachers, 8 ; female teachers, 88.	
Number of teachers in the High School	7
Male teachers, 2 ; female teachers, 5.	
Number of teachers in the grammar schools	51
Male teachers, 5 ; female teachers, 46.	
Number of teachers in the primary schools	37
One teacher of vocal music.	

PUPILS.

Number of pupils in attendance in January	4,268
Number of persons in the city between five and fifteen years of age in May last	4,204
Number between eight and fourteen years	2,949
Number of pupils in attendance in December	4,315
In the High School	248
“ grammar schools	2,148
“ primary schools	1,919
Number over fifteen years of age in December	346
Whole number registered during the year	5,271

TABLE SHOWING THE NUMBER OF PUPILS IN EACH OF THE THIRTEEN CLASSES IN DECEMBER, THE AVERAGE AGE OF PUPILS IN EACH CLASS, AND THE PER CENT THAT THE NUMBER IN EACH CLASS IS OF THE NUMBER IN ALL THE CLASSES.

GRADE.	Class.	Boys.	Girls.	Total.	Average age.	Per cent.
High	First	10	25	35	18 yrs. 6 mos.	.81
“	Second ..	15	34	49	17 “ 2 “	1.13
“	Third....	32	41	73	16 “ 5 “	1.69
“	Fourth ..	48	43	91	15 “ 5 “	2.11
Grammar.....	First	78	100	178	14 “ 11 “	4.12
“	Second ..	101	115	216	13 “ 10 “	5.01
“	Third....	173	143	316	13 “ 1 “	7.32
“	Fourth ..	252	188	440	12 “ 3 “	10.20
“	Fifth	279	195	474	11 “ 2 “	10.99
“	Sixth	303	221	524	10 “ 0 “	12.14
Primary	First	286	214	500	8 “ 8 “	11.59
“	Second ..	370	268	638	7 “ 6 “	14.79
“	Third....	453	328	781	6 “ 3 “	18.10
Total .....	.....	2,400	1,915	4,315	.....	100.00

SCHOOLS AND SCHOOL BUILDINGS IN THE SEVERAL DISTRICTS.

DISTRICTS.	SCHOOL BUILDINGS.	Grammar Schools.	Primary Schools.	Total.	Number of pupils in December.
Winter Hill.....	Forster	6	4	10	478
“	Cedar Street	1	1	2	105
East Somerville..	Prescott	9	3	12	650
“ ..	Edgerly.....	1	3	4	226
“ ..	Tnfts Street.....	....	2	2	87
Prospect Hill	Luther V. Bell....	10	2	12	652
“	Prospect Hill.....	2	3	5	234
“	Brastow	1	1	2	97
“	Bennett	1	2	3	158
“	Jackson.....	1	3	4	203
“	Webster .....	....	1	1	57
“	Union.....	....	1	1	50
Spring Hill	Morse.....	5	1	6	267
“	Beech Street	1	1	2	106
“	Spring Hill.....	....	1	1	45
“	Franklin	2	1	3	142
“	Harvard .....	....	1	1	64
West Somerville .	Highland.....	5	3	8	355
“ ..	Lincoln	1	1	2	91
Total .....	.....	46	35	81	4,067

ATTENDANCE.

Average whole number in all the schools for the year .	4,064.0
High School	237.0
Grammar schools	2,082.5
Primary schools	1,744.5
Average attendance in all the schools for the year .	3,793.7
High School	225.3
Grammar schools	1,978.2
Primary schools	1,590.2
Per cent of attendance in all the schools for the year .	93.3
High School	95.1
Grammar schools	94.9
Primary schools	91.9
Number of tardinesses in all the schools for the year .	2,136
High School	84

Grammar schools	768	
Primary schools	1,284	
Number of dismissals in all the schools for the year		2,212
High School	422	
Grammar schools	884	
Primary schools	906	

School attendance is a subject of much importance, and demands more than a passing notice. Our records pertaining to it reveal annually much that is interesting and encouraging, and much also to occasion regret and unpleasant apprehension.

We will briefly consider those topics which are intimately connected with this general subject.

Punctuality. — The regulations of the School Board regard tardiness, without sufficient cause, a misdemeanor, and it is treated accordingly. In all the schools tardiness is constantly diminishing, and in many of them it has almost entirely disappeared. Pupils are rarely seen outside of the school buildings after the time for the schools to begin. Great saving of time is secured to a school when every member of it is regularly in his place, and ready for work at the opening of the exercises. The habit of punctuality thus fostered will be of incalculable benefit to pupils in all their subsequent years.

In dealing with tardiness, however, as with all other evils connected with the schools, the constant exercise of judgment and discretion is demanded. In our efforts to diminish this evil, we must wisely employ means that are perfectly legitimate and will be salutary in their consequences. The special danger is that in our endeavor to rectify a given error, we create or magnify others still more objectionable. Our aim should ever be to secure the constant attendance at school of the largest number of pupils possible; if, therefore, the penalty for tardiness is such as to induce non-attendance or truancy, a comparatively small evil is exchanged for one of far greater magnitude. The careful attention of teachers to this subject is respectfully but earnestly solicited.

Regularity of Attendance. — When all the unavoidable causes which continually exist to prevent constant attendance are con-

sidered, the high per cent of attendance which is maintained by pupils *belonging to the schools* is gratifying, and in the main, satisfactory. During a series of years, the ratio of the average daily attendance to the average whole number belonging to the schools has been as follows: In the High School, 97.2 per cent; in the grammar schools, 94.6 per cent; in the primary schools, 91.2 per cent; in all the schools, 93.3 per cent.

It should be observed, however, that these results are obtained by finding the ratio of the average daily attendance to the average whole number actually belonging to the schools; whereas the per cent of attendance of all persons in the city, of school age, is obtained by finding the ratio of the average daily attendance of pupils between the ages of five and fifteen years to the whole number of persons in the city between those ages. Such a computation gives a per cent of attendance of 82.2, and a loss from non-attendance of 17.8 per cent.

Non-Attendance. — A part of this non-attendance is accounted for satisfactorily by the absence of pupils on account of their own sickness, the presence of contagious diseases in their homes, or other unavoidable causes. Another part is caused by absence for reasons insufficient and inexcusable. The largest part, however, arises from the permanent withdrawal of pupils from the schools before the completion of the grammar-school course. The table on page 117 shows that more than two thirds of all the pupils in the grammar schools are members of the three lower classes, and that comparatively few leave school permanently before the work of the fourth class is completed; but it represents also a lamentable decline in numbers in the three upper classes. The third class contains only about sixty per cent, the second forty per cent, and the first thirty-three per cent of the number they would contain, provided all pupils remained in school until the completion of the grammar-school course. At present, we graduate less than thirty per cent of all pupils who enter the grammar schools.

Truancy. — During the year, the Truant Officers have reported one hundred and eighty cases of truancy, and five habitual truants who have been sentenced to the House of Reformation for Juvenile Offenders, at Lowell. Truants often repeat their offence, and their

names reappear in successive reports ; consequently the number of cases of truancy reported is in excess of the actual number of truants, provided none have eluded the vigilance of the Truant Officers. These truants vary in age from seven to fifteen years, and represent the most neglected portion of our school population: Their early developments awaken alarming apprehensions concerning their future career.

The facts disclosed by the foregoing statements force upon our consideration the important and practical questions, What more can be done to diminish truancy, to increase the per cent of attendance, to induce a larger number of persons to avail themselves of all the advantages liberally furnished for their improvement, and thereby to elevate the average standard of education in the community?

Compulsory Laws. — The compulsory laws of the State aim to render available to every citizen the means for securing the rudiments of learning and all the advantages which may accrue from their possession. These laws are humane in their intent, and their enforcement is essential to the well-being of those in whose behalf they were instituted, and for the highest prosperity of the Commonwealth. The following are some of their provisions:—

1. “No child under the age of ten years shall be employed in any manufacturing, mechanical, or mercantile establishment in this Commonwealth.”

2. “No child under fourteen years of age shall be so employed, while the public schools in the city or town where such child lives are in session, unless such child can read and write.”

3. “No child under the age of fourteen years shall be so employed, except during the vacations of the public schools, unless during the year next preceding such employment he has, for at least twenty weeks, attended some public or private day school, under teachers approved by the school committee of the place where such school is kept.”

4. “Every person having under his control a child between the ages of eight and fourteen years shall annually cause such child to attend, for at least twenty weeks, some public day school in the city or town in which he resides.”

5. “Each city and town shall make all needful provisions and arrangements concerning habitual truants, and children between the ages of seven and fifteen years who may be found wandering about in the streets or public places therein, having no lawful occupation or business, not attending school, and growing up in ignorance.”

Whatever may be the judgment of any in regard to the expediency or the wisdom of enforcing all of these laws, no diversity of opinion can exist relative to the propriety of using all legitimate moral influences to secure their observance. No community can afford to incur the consequences that must follow from the total or the partial illiteracy of any portion of its citizens.

Relation between Education and Crime. — Much time and labor have been expended in various parts of the country in ascertaining the relation between education and crime. All investigations in this direction prove beyond a doubt that ignorance is a fruitful source of evil, and that intellectual training is a preventive of crime. In his report to the Bureau of Education in Washington, Dr. E. D. Mansfield says: "An examination of the criminal statistics from nearly all the States leads to the following conclusions: (1) That one third of all criminals are totally uneducated, and that four fifths are partially uneducated. (2) That the proportion of criminals from the illiterate classes is at least ten-fold as great as the proportion from those having some education." In 1879, the National Educational Association appointed a committee to investigate this matter. Dr. Wickersham, the chairman of that committee, says: "With the reports of the penitentiaries and prisons of some twenty States before us, we reach the following conclusions: (1) That about one sixth of all the crime in the country is committed by persons wholly illiterate. (2) That about one third of it is committed by persons practically illiterate. (3) That the proportion of criminals among the illiterate is about ten times as great as among those who have been instructed in the elements of a common-school education or beyond."

In concluding his report, Dr. Wickersham says: "We are well convinced that with all its defects, the system of public schools is the most potent agency, by all odds, at work among us to-day, to root up vice, to lessen crime, to lift up the people to a higher plane of civilization, and to save the sacred principles of republicanism our fathers planted on American soil, and bade us cherish with our lives, our fortunes, and our sacred honor."

PRIMARY SCHOOLS.

Of the thirty-five schools of this grade, twenty-one contain one class each ; ten, two classes each ; the remaining four, three classes each. Two schools of eighty pupils each have two teachers.

Number of pupils in attendance in January	1,826
Number admitted during the year	792
Number promoted to the grammar schools	434
Number in attendance in December	1,919
Whole number registered during the year	2,618
Average number of pupils to a school, computing from the average whole number	50

A large proportion of the teachers in the primary schools have taught in their respective grades several years, and have acquired superior skill in management and in adapting instruction to the capacity of their pupils. Indications are everywhere apparent that the children in these schools are kindly treated, judiciously managed, and well instructed ; and are accomplishing all that should be required of them.

The third class complete Monroe's Charts, Monroe's First Reader, Parker and Marvel's First Reader, and receive instruction in the rudiments of writing and drawing. The second class complete Parker and Marvel's Second Reader, and Monroe's Second Reader ; spell from the readers, and from dictation ; complete the first half of Greenleaf's First Lessons in Numbers ; write daily on ruled slates from copy and from dictation ; complete the first five cards of White's Series in Drawing, using slates specially prepared for the purpose. The first class complete McGuffey's Second Reader, and the Franklin Advanced Second Reader ; spell from the readers and through the first thirty-five pages of Harrington's Spelling Book ; complete Greenleaf's Primary Arithmetic and Wallcut's Numeral Cards ; write daily on ruled slates from copy and from dictation ; write original compositions frequently, using slates and paper ruled with guide lines ; complete two drawing books of White's Series.

We cannot urge too strongly the importance of making the schools — especially those composed of little children — pleasant

and attractive. All causes of discomfort should be carefully and persistently avoided. Each school-room should be bright and cheerful. The air should be kept at an agreeable and equable temperature, and as pure as possible. To avoid weariness, the regular exercises should be short and varied, and frequently interspersed with singing and physical exercises. The tones of the teacher's voice should be cheery, her countenance sunny, and her entire demeanor such as to inspire the confidence and affection of her pupils. Swett, in his "Methods of Teaching," says, "First of all make your school pleasant. The primary condition of a learner is satisfaction in learning. Be courteous and polite: you can more easily win by kindness than drive by authority. Cultivate a habit of cheerfulness that shall shine out from your countenance like the light of the rising sun."

Children never conceal their joys, but are often reticent concerning matters that mar their happiness, and are inclined to endure in silence much that overshadows their lives. Hence the liability to overestimate the pleasures of childhood, and to forget that sorrows also are incident to that period. Boyd says, "I believe that the sorrows of childhood task the endurance of childhood as severely as those of manhood do the endurance of man." Children respond quickly to kindness, and are keenly sensitive to injustice. A cutting remark or bitter sarcasm often inflicts a wound that time never heals. It is not in the nature of children to cherish malice, — hence the injunction, "In malice be ye children," — therefore they may forgive; but to their latest day, they will not forget those acts of injustice of which they were the recipients in the defenceless years of childhood.

"None is fitted to be a teacher," says Hart, "who has not learned to sympathize with the real wants and feelings of children." Horace Mann has said, "The voice of nature forbids the infliction of annoyance, discomfort, or pain upon a child while engaged in study. If possible, pleasure should be made to flow like a sweet atmosphere around the early learner, and pain be kept beyond the association of ideas. You cannot open blossoms with a northeast storm; the buds of the hardiest plants will wait for the genial influences of the sun, though they perish while waiting."

TABLE SHOWING THE AVERAGE WHOLE NUMBER OF PUPILS, THE AVERAGE DAILY ATTENDANCE, AND PER CENT OF ATTENDANCE, IN EACH PRIMARY SCHOOL DURING THE YEAR.

SCHOOLS.	TEACHERS.	Average whole number.	Average attendance.	Per cent of attendance.
Foster	M. H. Pennock.....	46.8	44.2	94.4
“	L. V. Colby.....	41.2	38.0	92.2
“	A. T. Couch.....	38.9	35.6	91.5
“	L. G. Perry.....	44.9	40.4	90.0
Prescott.....	S. E. Pratt	54.2	51.1	94.3
“	E. M. Plummer.....	55.5	51.5	92.8
“	E. F. Schuh.....	73.3	65.8	89.7
Edgerly	A. M. Cowles	50.7	48.4	95.5
“	A. L. Prescott.....	51.8	49.1	94.8
“	C. M. Bagley.....	69.7	63.9	91.7
Tufts Street	H. V. Hathaway	40.2	36.7	91.3
“	Ada Cowles.....	37.0	32.1	86.7
Luther V. Bell....	L. F. Appleton.....	60.5	56.4	93.2
“	A. M. Houghton.....	67.5	60.2	89.2
Prospect Hill....	A. I. Howe	51.0	46.8	91.8
“	C. I. Houghton	51.3	46.3	90.2
“	M. A. Vinal.....	37.7	34.4	91.2
Brastow.....	L. D. Harding	52.6	48.2	91.6
Bennett	Maria Miller	50.2	46.4	92.4
“	M. B. Currier.....	53.8	48.6	90.3
Jackson	A. C. Damon.....	45.8	42.2	92.1
“	M. M. Hobson	44.8	40.0	89.3
“	A. E. McCarty	46.8	43.1	92.3
Webster.....	A. L. Savage.....	56.0	52.9	94.5
Union	I. M. Prince.....	46.2	44.0	95.2
Morse.....	C. N. Sanderson.....	59.0	54.0	91.5
Beech Street.....	Z. E. Freeman	52.5	47.5	90.4
Spring Hill.....	A. E. Furber.....	46.6	41.0	87.9
Franklin	E. C. Ruggles.....	55.7	51.7	92.8
Harvard.....	A. E. Robinson.....	51.8	45.4	87.6
Highland.....	A. P. Lord.....	40.1	38.8	96.7
“	S. E. Pray	36.0	33.2	92.2
“	C. M. Smith	35.8	31.8	88.8
Lincoln	A. L. Clapp.....	39.8	36.8	92.4
Cedar Street.....	A. M. Porter.....	58.8	43.7	74.3
		1,744.5	1,590.2	91.1

GRAMMAR SCHOOLS.

Taking the average whole number of pupils belonging to all the schools during the year as the basis of computation, it is found that the forty-six schools of this grade have contained 51.5 per cent of all the pupils in the several departments. Forty-three of these schools have one class each; the remaining three have two classes each. Six schools have two teachers each.

Number of pupils in attendance in January	2,199
Number received from the primary schools	434
Number in attendance in December	2,148
Number in attendance in December, 1880	2,072
Whole number registered during the year	2,311
Average number of pupils to a school, computing from the average whole number during the year	45

At the close of the summer term, one hundred and thirty-two pupils were graduated at the several grammar schools: boys fifty-five, girls seventy-seven.

From the Luther V. Bell School	43
“ Prescott School	33
“ Morse School	25
“ Forster School	17
“ Lincoln School	14
Number promoted to the first class in June	148
“ “ “ second class in June	225
“ “ “ third class in June	301
“ “ “ fourth class in June	362
“ “ “ fifth class in June	364
“ “ “ sixth class in June	434

Of the one hundred and thirty-two pupils graduated at the grammar schools, one hundred and seven applied for admission to the High School, one hundred passed a satisfactory examination, and eighty-seven entered the school in September.

TABLE SHOWING THE NUMBER OF PUPILS GRADUATED AT EACH OF THE GRAMMAR SCHOOLS, THE NUMBER OF APPLICANTS FOR ADMISSION TO THE HIGH SCHOOL, THE NUMBER WHO PASSED A SATISFACTORY EXAMINATION, AND THE NUMBER WHO ENTERED THE SCHOOL IN SEPTEMBER.

SCHOOLS.	Number of graduates.	Number of applicants.	Number successful.	Number entered.
Forster.....	17	17	17	*18
Prescott.....	33	25	25	19
Luther V. Bell.....	43	28	24	21
Morse	25	24	22	19
Lincoln	14	13	12	11
Total	132	107	100	88

* One from the class of 1880.

The Committee on the Revision of the Course of Study in the Grammar Schools have made some important modifications in the course in arithmetic, during the year, in order that pupils who do not complete the grammar-school course may pursue a wider range of topics than heretofore, and gain some familiarity with various subjects ordinarily pursued late in the course.

Text-Books. — Greenleaf's Complete Arithmetic has been substituted for Greenleaf's Practical Arithmetic in the fifth and sixth classes, and Greenleaf's First Lessons in Numbers for Greenleaf's Primary Arithmetic in the second class of the primary schools. Monroe's Fifth Reader has taken the place of Appleton's Fourth Reader in the third class. Monroe's Sixth Reader has displaced Appleton's Fifth Reader in the first class. The Duntonian Series of Writing Books have been substituted for the American Series, and White's Drawing Books for Walter Smith's.

Teachers are receiving instruction in drawing from H. P. Smith, Esq., author of White's Drawing Books.

TABLE SHOWING THE AVERAGE WHOLE NUMBER OF PUPILS, THE AVERAGE DAILY ATTENDANCE, AND THE PER CENT OF ATTENDANCE IN EACH GRAMMAR SCHOOL DURING THE YEAR,

SCHOOLS.	TEACHERS.	Average whole number.	Average attendance.	Per cent of attendance.
Forster.....	J. S. Hayes	47.8	46.4	97.1
“ *	M. E. Wild	37.8	36.3	95.7
“	M. E. Northup	42.8	41.2	96.2
“	F. M. Guptill	53.8	50.8	94.4
“	N. M. Whitney.....	50.4	48.8	96.8
“	A. A. Batchelor	49.3	46.0	93.3
Prescott.....	A. G. Southworth.....	40.3	39.4	97.7
“	V. E. Hapgood.....	56.7	55.3	97.5
“	Adelaide Reed	43.1	41.5	96.3
“	F. P. Hudson	43.0	41.8	97.2
“	A. A. Anderson	49.0	47.0	95.9
“	A. I. Sears.....	48.8	47.1	96.5
“	C. T. Brown	45.2	42.8	94.7
“	H. H. Winslow	47.8	45.6	95.4
“	Clara Taylor.....	49.9	47.6	95.4
Edgerly	H. N. Sands.....	44.4	42.3	95.4
Luther V. Bell....	Robert Bickford	46.7	45.8	98.1
“	M. H. Marden.....	44.4	42.9	96.6
“	E. M. Gooding.....	39.2	37.8	96.4
“	A. C. Hunt.....	43.6	41.7	95.6
“	Helen Tincker	39.6	37.4	94.4
“	F. A. Wilder.....	44.2	41.4	93.6
“	M. E. Berry.....	47.0	45.8	97.4
“	L. F. Howe.....	48.3	46.2	95.6
“	A. M. Snow.....	48.0	46.3	96.4
“	L. J. Page	50.6	48.0	94.8
Prospect Hill	A. L. Sanborn.....	36.6	34.6	94.5
“ †	A. C. Damon.....	47.3	42.6	90.1
“	Ellen Ledyard	48.5	44.9	92.6
Brastow.....	S. E. Pennock	34.0	32.5	95.6
Bennett.....	A. A. Roberts.....	43.2	39.6	91.6
Jackson.....	N. O’Leary	45.2	42.0	92.9
Webster†.....	A. L. Sanborn	30.3	28.6	94.3
Morse.....	C. C. Hunkins.....	27.7	26.7	96.4
“	N. P. Nichols.....	29.3	28.4	96.9
“	P. S. Downes.....	40.2	39.5	98.0
“	C. N. Burgess.....	45.3	43.9	96.9
“	A. E. Sawyer	51.2	48.3	94.3
Beech Street.....	M. A. Haley	51.9	48.6	93.6
Franklin	J. E. Clark.....	27.4	25.1	91.6
“	H. A. Hills	44.0	40.0	90.9
Highland	G. E. Nichols	36.6	35.6	97.2
“	Jennie Colburn.....	38.5	35.5	92.2
“	Georgiana Cutter.....	39.6	35.8	90.4
“	L. J. Conwell.....	42.9	40.7	97.2
“	S. F. Gibbs	43.7	39.8	91.7
Lincoln *	M. A. Paul	39.9	37.2	93.2
Cedar Street.....	Alice Simpson	37.5	35.1	93.6
		2,0-2.5	1,978.2	94.9

* Organized in September.

† Discontinued in September.

HIGH SCHOOL.

Whole number of different pupils during the year	342
Largest number at one time	256
Number admitted during the year	99
From our grammar schools	88
From other schools	11
Number graduated	34
Number of graduates who entered college	7
Number of graduates who entered the School of Technology	5
Number who have left the school during the year, exclusive of graduates	60
Whole number at the present time	248
Number over fifteen years of age	209
Number in course preparatory to college	70
Number pursuing the regular course	139
Number pursuing the English course	39
Number in the first class on entering the school	95
Number at the present time	35
Number in the second class on entering the school	100
Number at the present time	49
Number in the third class on entering the school	107
Number at the present time	73
Number in the fourth class on entering the school	94
Number at the present time	91

Of those who graduated in June last, three entered Harvard College, two the Harvard "Annex," two the Boston University, and five the Institute of Technology.

It will be seen, by referring to the table on the next page, that 1,875 persons have been connected with our High School since its organization in 1852. About 1,180 persons entered from 1858, when the first graduates entered, to 1877, when the last graduates entered. Of this number, four hundred and forty-three graduated, and eighty-six entered college. It hence appears that an average of thirty-seven and one half per cent of those who entered the school from 1858 to 1877, inclusive, graduated.

TABLE SHOWING THE NUMBER OF PERSONS WHO HAVE ENTERED THE HIGH SCHOOL SINCE ITS ORGANIZATION IN 1852, THE NUMBER GRADUATED, AND THE NUMBER WHO HAVE ENTERED COLLEGE.

ENTERING CLASSES.		GRADUATED.		ENTERED COLLEGE.
Year.	Number.	Year.	Number.	
Before 1858.....	263	1860		1
In 1858	27	1861		
1859	32	1862	6	
1860	{ March, 33	1863	6	1
	{ Sept., 25	1864	12	
1861	32	1865	11	
1862	17	1866	8	1
1863	26	1867	7	4
1864	35	1868	17	4
1865	37	1869	25	3
1866	36	1870	16	2
1867	52	1871	33	2
1868	55	1872	21	2
1869	59	1873	28	5
1870	65	1874	26	3
1871	59	1875	31	9
1872	74	1876	33	7
1873	83	1877	37	7
1874	72	1878	31	8
1875	81	1879	34	13
1876	86	1880	27	7
1877	83	1881	34	7
1878	110			
1879	101			
1880	109			
1881	94			
Entered other classes at different periods	129			
Total	1875	.....	443	86

TWENTY-NINTH ANNUAL EXHIBITION OF THE SOMERVILLE HIGH SCHOOL, TUESDAY, JUNE 28, 1881.

ORDER OF EXERCISES.

SINGING. — Sailor Chorus (with orchestra).

1. SALUTATORY IN LATIN.

CHAS. A. PRATT.

2. ESSAY. — *The Story of a River.*

LUCY M. STONE.

3. READING. — From "Macbeth." CLIFFORD WALKER.
 4. READING. — Sister Weeden's Prayer. Scribner's.
 LILIAN M. TOTMAN.
 5. ESSAY. — *Brevity*. JENNIE L. LOCKE.
 SINGING. — Semi-Choruses: *a.* "If thou wilt go to the churchyard."
 (Accompaniment of stringed instruments.)
b. *Fidelin*.
 (Accompaniment of wind instruments.) Brahms.
 Unison Chorus: The Lost Chord (with orchestra and organ).
 (Instrumentation by S. H. Hadley.) Sullivan.
 6. READING. — The Ride of Jennie M'Neal. Carleton.
 CLARA I. ATWOOD.
 7. From "Much Ado about Nothing." (Original Version in Greek.)
 GEO. A. SNOW, GEO. F. WEST, EDWARD F. WOODS, AND OTHERS.
 8. ORIGINAL CONTRIBUTIONS. J. LILLIAN COLSON.
 * MUSIC. — Overture: "Pirates." Sullivan.
- RECESS.
- SINGING — Cantata: The Morning (with orchestra). Ries.
9. ESSAY. — *Masks*. IDA M. HAYNES.
 10. Tous les jours la même chose.
 HALLIE M. HOOD, MARY L. HOWES, MINNIE W. JACKSON,
 MARY B. MORSE, SARAH A. REMICK, BESSIE R. WHITE,
 GEORGE F. STEELE.
 11. ESSAY. — *The School-Room Clock*. MARY P. BANKS.
 12. READING. — Song of Milkanwatha. (*Translation from*
original Feejee.) ARTHUR I. PLAISTED.
 13. READING. — Das Glück von Edenhall. Uhland.
 ANNIE FOSTER.
 14. POEM. FREDERIC M. KIMBALL.
 SINGING. — Ave Maria (Female voices, with orchestra).
 (Instrumentation by S. H. Hadley.) Marchetti.
 Quartette: The Old Romance. Mendelssohn.
 (Graduating Class.)
 15. READING. — Orpheus et Eurydice. Ovid.
 GERTRUDE POWERS.
 16. PROPHECIES. MINNIE A. PERRY.
 17. VALEDICTORY. SUSIE F. B. PERRY.
 18. PRESENTATION OF DIPLOMAS, by MAYOR JOHN A. CUMMINGS.
 19. PARTING HYMN.

MEMBERS OF THE GRADUATING CLASS.

Clara Isabel Atwood,
 Mary Prince Banks,
 Hattie Amy Crane,
 Annie Elizabeth Crimmings,
 Lillian Wynne Dalton,
 Annie Foster,
 Emma Eastwood French,
 Nola Eloise Hall,
 Hallie Monks Hood,
 Mary Louise Howes,
 Jennie Louise Locke,
 Lillie Ellen Morrill,

Mary Blake Morse,
 Ella Cora Page,
 Minnie Alice Perry,
 Susie F. B. Perry,
 Charlotte Estella Snow,
 Lucy Maria Stone,
 Lilian May Totman,
 Frederick Mason Kimball,
 Arthur Irving Plaisted,
 George Frederick Steele,
 Clifford Walker.

OF THE COURSE PREPARATORY TO COLLEGE.

Charles Augustus Pratt,
 George Andrew Snow,
 George Fletcher West,
 Edward Franklin Woods,
 Ina Caroline Brooks,
 Julia Lillian Colson,

Ida Maria Haynes,
 Mary Elizabeth McLaughlin,
 Gertrude Powers,
 Sarah Ann Remick,
 Bessie Randall White.

In Memoriam.

Prof. Henry H. Babcock was principal of our High School from August, 1859, to the close of the school year, July 19, 1867. He possessed in an unusual degree the respect and affection of his pupils, and the confidence and esteem of the entire community. We learn from former reports that when he came to the school it contained only forty-three pupils. The course of study extended over three years; the first class were studying the Latin Reader; no pupils had ever been prepared for college; there was no graduation of pupils completing the course; the attendance was very irregular. In 1860, a four-years' course of study was adopted, and in 1862 a class was graduated and diplomas were awarded. Dur-

ing his administration the school constantly increased in numbers and interest, and when he resigned, contained one hundred and twenty pupils, and ranked with the best schools of its grade in the Commonwealth.

Those of our citizens who were pupils of Mr. Babcock, and others who knew him, will be interested in the following memorial adopted by the Chicago Literary Club on the day following that of his death:—

“Henry H. Babcock departed this life at his late residence in the city of Chicago, Monday evening, Nov. 7, 1881. He was born in Thetford, Vt., Dec. 19, 1832, and spent his life in the pursuit of knowledge, the profession of teaching, and the service of scientific societies.

“He came to Chicago in 1867, after an honorable career as a teacher in the schools of Massachusetts, and soon became the principal and the proprietor of the Chicago Academy, and remained in that position till the time of his decease. He was Professor of Botany in the Chicago College of Pharmacy, and director of the Botanical Garden, and in that department achieved a wide and merited distinction. He was a leading member of the Illinois State Microscopical Society, and at one time held the presidency of that body. He was long identified with the Chicago Academy of Natural Sciences, and was president of that institution when he died.

“He was one of the founders of the Union Swedenborgian Church of Chicago, and was also president of that organization at the time of his departure for the eternal world. He was also a highly esteemed member of the Chicago Literary Club, and his name stands upon our present ‘Scheme of Exercises’ as the leader appointed to conduct a conversation on ‘Our Native Flora’ at the meeting to be held on the coming 8th of May.

“In all positions he did his work well. In manner he was kind and dignified; in spirit, noble; in character, pure; in conduct, just; in scholarship, eminent; and in devotion to duty, unswerving.

“The Chicago Literary Club, therefore, places upon its records this memorial of Henry H. Babcock, and testifies its affection and respect for him as an upright man, an eminent scientist, a good citizen, and an honored member of this society.”

CONCLUSION.

It is our privilege and pleasure to report that the schools, as a whole, have been doing substantial and satisfactory work during the year, and are in a prosperous condition. Their most unfavorable and discouraging features have been disclosed under the head of "Attendance."

For a series of years our schools have been wisely managed and well instructed, and have maintained an honorable rank with the best schools in the neighboring cities. Hence we do not claim for those of the present year, marked superiority over those of some former years. In the realm of intellect, as in the vegetable kingdom, there are limitations to growth even under the most favorable conditions; consequently there must be a limit also to our requirements and expectations. As time advances, however, the recorded and ever-accumulating experience and wisdom of the past, and the superior opportunities of each succeeding period, secure the development of improved systems of instruction and methods of study, whereby more can be accomplished in a given period of time and with less expenditure of vital energy. As a consequence, the schools of each succeeding year give gratifying evidence that they fully sustain the reputation previously acquired, and make substantial advances.

In their management of our schools, successive committees have adopted as their policy the golden mean between undue conservatism on the one hand and extreme radicalism on the other. Their course is clearly indicated by the following quotation from the writings of one of the wisest men of our time: "True wisdom consists in avoiding the extremes peculiar to conservatism and reformation, and aims to make man possessor of all the good which the past can bestow and all the good which the present can produce, uniting in one happy result the benign results of conservatism and improvement, retention of the past and progress of the present." As a result of this policy, all changes which have been effected in the schools during these years of perturbations and revolutions have been gradual but substantial, and no time has been squandered upon doubtful experiments.

The schools of the present time are essentially unlike those of former years, and in many particulars vastly superior to them ; but the change in popular sentiment in regard to their importance, and the deep interest now existing in their behalf, are still more noticeable. Facilities for their improvement have greatly multiplied, and appropriations for their support are constantly increasing. In 1837, the Board of Education was organized, and Horace Mann was appointed its Secretary. The annual appropriation that year for the support of the public schools of Massachusetts was \$387,124. Since that period, the population of the State has increased about two and one half times, but the annual appropriations for the support of public schools have increased more than tenfold. During the first year that Mr. Mann was Secretary, he visited eight hundred school-houses in different parts of the State. After his investigations he made the following statement: " Not one third of the public school-houses in Massachusetts would be considered tenantable by any decent family out of the poorhouse, or in it. I have seen many school-houses in central districts of rich and populous towns, where each seat connected with a desk, consisted only of an upright post or pedestal, without side-arms or back-board ; and some of them so high that the feet of the children sought after the floor in vain."

The commodious and beautiful school buildings which now adorn every city and nearly every town in the Commonwealth, and the excellent schools which occupy them, are in striking contrast with those which passed under the observation of the eminent Secretary.

The following are some of the distinctive features of the schools of the present time : —

1. Marked improvement in discipline. The art of governing by mild means is better understood and much more generally practised than formerly. The government in most schools is similar to that which a judicious parent exercises in the management of his family.
2. The health, manners, and morals of pupils are matters of increasing solicitude and watchfulness.
3. The development and cultivation of the understanding receive special attention at every stage of the pupil's progress.
4. Increased effort is made to develop correct expression. Hence, exercises in language,

spoken and written, constitute an important part of each day's work. 5. In all the grades, pupils read more than formerly; less time is devoted to vocal drill exercises, and more to secure quick and accurate comprehension of the author's meaning. 6. Writing is begun much earlier in the pupil's course than formerly, and much more time is devoted to exercises for acquiring freedom and rapidity of movement. 7. In arithmetic, less time is employed in memorizing rules and explaining principles, and more to gaining familiarity with processes and quickness in computations. 8. In geography and history, unimportant details are omitted, and there is much less of *memoriter* recitation than formerly. 9. Music and drawing are peculiarities of comparatively recent date.

Recent strictures upon the public-school system and its results, from comparatively high sources, have led those most deeply interested to propound the following questions for general consideration:—

1. "What are the chief defects in our system of public-school instruction?" 2. "What changes are suggested by which the defects may be removed?"

The following are some of the replies which these inquiries have elicited:—

Defects.— "Lack of teachers of sufficient qualifications." "Too many pupils to each teacher, and as a consequence, the impossibility of studying the peculiarities of each child." "Tendency to crowd the curriculum in our schools, and to specialize the studies too soon." "Too much time is spent in mere manipulations and organization." "Too much reliance upon artificial spurs to study." "Tendency to secularize education." "Failure to develop the power of expression." "Failure to develop the memory." "Large numbers leave school at an early age." "Non-attendance is a startling evil."

Remedies.— "Better preparation of teachers for their work, through the instrumentality of professional training in the art and mastery of teaching." "Normal schools should supplement high schools, and not be substituted for them." "Greatest simplicity of organization consistent with the orderly conduct and movement of large numbers." "The public-school system should be more

simple and less pretentious, should teach fewer branches and vastly less of minute detail." "More complete attendance at school, of children of school age, by a more stringent system of compulsion."

Our own schools present much for congratulation and encouragement. They are generously sustained, conveniently accommodated, and liberally supplied with all needful appliances for successful work. They are well organized. The course of study, in the main, is satisfactory, and the requirements are well adapted to the capacity of the pupils. Pupils as a whole are orderly, obedient, courteous, and industrious. Those who complete the course of study attain to a respectable rank in scholarship. The high relative standing of the schools and the excellent results secured by them are evidences also of the fidelity and ability of the teachers. "We guess the pilot by the sailing of the ship." With all their excellences and commendable qualities, however, the schools are ever revealing imperfections which claim our vigilance, and demand a daily renewal of intensified effort.

None are more sensible of the defects which expose the schools to criticism, or deplore their existence more deeply, than those under whose observation they are constantly passing, and on whom devolves the duty of their correction.

The more prominent evils which mar the schools and impair their efficiency have been classified under the head of "school vices," as follows: "Idleness, whispering, disorderly movements in the school-room, injury to property, and rudeness of speech or act in the intercourse of every-day life." To these may be added, needless tardiness and inexcusable irregularity of attendance.

Against these vices of the schools stand the following "school virtues," which we aim to cultivate: "Regularity of attendance, promptness, obedience, truthfulness, earnestness, diligence, kindness, neatness, and thoroughness in the preparation of lessons."

The fitness of teachers for their vocation is clearly indicated by their treatment of these ever-recurring vices of the schools, and their success in cultivating the opposite virtues enumerated.

The interests of education intrusted to our supervision are worthy our highest endeavor. It has been well said, "The noblest

and the most difficult of all arts is to train up a child to worthy manhood." Orcutt says, "We cannot add to the stature of our pupils one cubit, nor to their mental capacity one new power; but we can bring them under such a process of training as will subdue their wild and untamed impulses, develop the latent energies of body, mind, and soul, and direct them to a course of right action; so that the future citizen and law-giver may be fitted for his great work and high destiny."

The ruling purpose in education is an increase of ability to meet the emergencies and to perform the duties of life successfully. The methods employed change with the ever-varying demands of communities, and the intelligence and skill of those who devise and apply them; but the purpose is not affected by lapse of time or revolutions in popular sentiment.

Mental strength and moral power are the reward of earnest, persistent, well-directed effort. "There is no royal road to any worthy success." Porphyry says, "Steep and craggy is the path of the gods." The highest rewards are assured to those "who, by *patient continuance in well-doing*, seek for them." Ability to do is a resultant of doing. The eye gains its clearness and accuracy of perception by patient observation; the ear its acuteness by attentive listening; the hand its cunning by constant, careful practice; and the mind, all that is contained in that comprehensive word, *culture*, by severe, systematic, and long-continued study. Much, indeed, of all that is learned will be forgotten; but the mental power evolved by the acquisition of knowledge which may have passed from the recollection, remains. The wheel of the lapidist wastes away, but the lustre imparted to the precious gems endures. Emerson says, "If he have secured the elixir, he can spare the wide gardens from which it was distilled."

The crowning agencies, however, in securing the important ends contemplated in the work of the schools, are the energizing and inspiring presence and the wisely directed efforts of teachers thoroughly furnished for their work and deeply imbued with a sense of its importance. Carlyle says, "Mind grows, like a spirit, by mysterious contact of spirit; thought kindling itself at the fire of living thought." To this he adds the pertinent and important question,

which all may profitably consider, "*How shall he give kindling in whose inward man there is no live coal?*"

With many thanks to you, gentlemen, for your continued kindness and numerous courtesies, this report is respectfully submitted.

J. H. DAVIS,
Superintendent of Public Schools.

SOMERVILLE, Dec. 31, 1881.

ANNUAL REPORT

OF THE

SOMERVILLE MYSTIC WATER BOARD.

1881.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb. 14, 1882.

Referred to the Committee on Printing, to be printed in the Annual Report of 1881. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 16, 1882.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF WATER BOARD, JAN. 1, 1882.

To the City Council of the City of Somerville :

THE Somerville Mystic Water Board submit their annual report for the year ending Dec. 31, 1881, and with it the report of the superintendent, containing a full statement of the city's property in water works, with an inventory of stock and tools, and the work done during the year.

There have been laid and set since our last report, 2,977 feet of distribution pipe, 9 stop-gates, and 6 hydrants, making the total throughout the city 45 miles 2,185 feet of pipe, 392 stop-gates, and 283 hydrants.

There have been relaid 2,597 feet of pipe ; 139 new service pipes have been laid, amounting in length to 6,250 feet, at an average cost of \$19.74.

Water is now supplied to the following : —

Dwelling-houses	3,645
Families	4,972
Stores and saloons	163
Manufactories	25
Offices, halls, and clubs	32
Churches	13
Stables	667
Public schools	82
Hydrants	283
Standpipes for street watering	20
Public drinking fountains	8
Miscellaneous	57

The Fitchburg Railroad Company have laid, at their own expense, 1,644 feet of six-inch cast-iron pipe to supply their engines, and for further protection against fire in their freight yard, connecting the

same with a six-inch gate on Linwood Street, adding a material source of revenue to the water works.

In the report of the city treasurer will be found a full statement of expenditures on the construction, maintenance, and service accounts.

It will be noticed that of the money appropriated for maintenance of water works during the year 1881, which contemplated the relaying of five streets, a considerable sum remains unexpended. The several reasons for this are: The unusual amount of time and labor required in replacing decayed gate and service boxes, resetting hydrants, setting blow-offs, supplying the largely increased demand for services, the extension of water works 2,977 feet; the constant care and vigilant watch of the superintendent over streets regarded as unsafe, because of the poor condition of the pipe laid in them, he having given his personal attention to the opening and shutting of gates in the case of fires to save them from any extraordinary pressure that might cause bursting or leaking at such time; and the relaying of such streets as were known to be unsafe.

These several reasons combined, making it impossible and unnecessary to relay all the streets planned for, have made it possible for us to pass through the year with a much less expenditure than at its commencement was deemed absolutely necessary. It must not be inferred, however, because of past immunity from danger, that we can hope to escape the necessity of relaying, just as fast as circumstances will permit, all the streets in which the pipe now decaying was laid, years before the present processes of manufacture were understood and adopted.

Confirming our opinion, expressed in former reports, of the superior value and durability of cement pipe for water works, when properly made and laid, are the facts that we have had during 1881 only about one half the number of leaks and breaks that occurred in the previous year, and none in the pipe laid under the present management. This leads us to believe that when the old pipe laid by the American Patent Water and Gas Pipe Company, now the source of all our trouble, shall have been renewed, we shall have water works excelled by none.

It is proper for us to state here that the board has, during the past year, placed in the shops of the water works the most approved and perfect machinery known for the manufacture of cement pipe ; and we are confident that the product of our manufacture will compare favorably, for cost, durability, and the clear and safe conduct of water distributed, with any iron pipe made. Could we be as secure of good, pure, and wholesome water from the Mystic as these pipes would deliver were pure water delivered to them, there would be no further complaint about water supply by the citizens of Somerville.

We regard it as part of our duty to again call the attention of the City Council to the absolute necessity of a system of high service in connection with our water works.

While at least four hundred families are, by reason of the insufficient quantity of water granted them, never fully protected from the danger of fire, and never have water enough to meet their needs for household purposes, they are with few exceptions, where the flow is meagre beyond description, compelled to pay full rates.

This poverty of water supply is, more than any other one thing, preventing the improvement of the most desirable localities in the city for fine residences.

As will be seen by stock account report, the Board of 1881 leave the water works well supplied with material, all in prime condition for use ; and we are glad to know that, like any well-appointed business, conducted on strictly business principles, the maintenance of the Somerville water works is reduced to a system which, under careful and economical management in the future, will secure the best interests of the city in so far as the distribution of water is concerned.

Respectfully submitted,

EDWARD FOOTE.

WESLEY C. CRANE.

EDWIN S. CONANT.

JOHN A. COLE.

SUPERINTENDENT'S REPORT.

To the Somerville Mystic Water Board :

GENTLEMEN, — The annual report of the Superintendent of the Somerville Mystic Water Works is respectfully submitted, comprising a statement of all work performed under my direction from Dec. 31, 1880, to Dec. 31, 1881.

WATER PIPE LAID, GATES AND HYDRANTS SET, 1881.

LOCATION.	Distribution Pipe laid.				Stop-gates set, 6-inch.	Hydrants set.	Hydrant Pipe laid.	
	2 in.	3 in.	4 in.	6 in.			4 in.	6 in.
Austin Street			292					
Chester Place	261							
Fitchburg Railroad				1,644				
Garden Court			432					
Loring Street				105				
Joy Street, near Poplar Street							35	
Oxford Street, near School Street							8	
Somerville Avenue, near Elm Street							24	
Summit Avenue							7	
Prospect Street, near Newton Street							18	

PIPES FOR BLOW-OFFS.

Beacon Street, near Sacramento Street			18					
Chester Place								
Elm Street, near Russell Street			11					
Garden Court								
Hamlet Street		7	7					
Franklin Street, near Pearl Street			7					
Marshall Street, near Evergreen Ave			17					
Oliver Street, near Glen Street			17					
Springfield Street, near Cambridge line			34					
Tenney Court	7							
Thorpe Place	9							
Washington Street near Boston line				7				

WATER PIPE RELAID IN 1881.

LOCATION.	3 in.	4 in.	6 in.	8 in.	10 in.
Broadway, near Cutter Street				16	
Broadway				23	
Beacon Street, near Sacramento Street			8		
Brooks Street, near Rush Street		14			
Cross Street, near Broadway to near Everett Avenue			484		
Chester Street, near Herbert Street		7			
Cutter Street, Broadway to Webster Street			759		
Elm Street, at Cherry Street			12		
Homer Square		7			
Hamlet Street	7				
Jaques Street		7			
Linwood Street, near Poplar Street			5		
Mt. Vernon Street, Broadway to Perkins Street			588		
Poplar Street, near Maple Street		7			
Somerville Avenue			6		
Thorp Place	7				
Walnut Street, near Broadway			7		
Wallace Street, near Holland Street			16		
Webster Street, near Glen Street, to Franklin Street			616		

HYDRANT PIPE RELAID.

Central Street, near Albion Street	7			
Central Street, near Vernon Street	7			
Dane Street, at Tyler Street	5			
Highland Avenue, near Walnut Street	5			
Somerville Avenue, at Spring Street	5			
Summer Street, near Porter Street	7			
School Street, at Avon Street	7			
Webster Street, near Rush Street	4			
Holland Street, near Irving Street	6			

DISTRIBUTING MAINS.

The distributing mains have been extended, during the year, 2,977 feet, of which 1,644 feet of six-inch cast-iron pipe have been laid by the Fitchburg Railroad Company on their premises, and connected with the six-inch gate on Linwood Street; making now forty-five miles 2,185 feet.

Leaks have occurred during the year from causes as follows:—

By rust holes	8
By defective lining of pipe	10
By blows from picks	2
By joint leaks	7

Total	33 *
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* A decrease of twenty-eight from last year.

Of the streets referred to in a previous report, Mt. Vernon Street has been relaid with a new six-inch pipe with cast-iron joints; Webster Street, from Glen Street to Franklin Street, with a six-inch pipe with cast-iron joints; Cutter Street, from Webster Street to Broadway, with a new six-inch pipe; Cross Street, from Hadley Court towards Everett Avenue, a distance of 484 feet, with six-inch pipe.

I would recommend the extension, as soon as possible, of the six-inch main pipe on Beacon Street, from Kent Street to Sacramento Street (distance 525 feet), as that locality has now to depend wholly upon the six-inch pipe running across Sacramento Street, which I consider insufficient in the event of a large fire in the vicinity. And also, in making repairs between Central Street and Craig Street, this locality is entirely deprived of water, causing great complaint.

In order to remove the impurities complained of by residents on Columbus Avenue, I would recommend the extension of the six-inch pipe on said avenue to connect with the four-inch pipe on Walnut Street, a distance of 125 feet, which extension will give a circulation and remove the cause of complaint.

SERVICE PIPES.

The whole number of service pipes laid has been one hundred and thirty-nine, an increase of forty-five over last year.

More than the usual amount of labor was caused the past year by the freezing of service pipes. With three exceptions, those pipes were of lead, and connected on the top of the main in the old way, and they were frozen near the gooseneck. I would recommend that these pipes be disconnected from the top and reconnected in the centre of the pipe, an alteration whereby the difficulty may be remedied.

Bond Street, for a distance of 250 feet, more or less, has been cut down to a new grade since the main was laid; and the pipe being in some places but two feet below the surface, it is exposed to the action of frost. For the past four winters the services connected at this point have frozen, and I therefore recommend that this pipe be lowered to a depth of five feet.

The whole number of service pipes laid has been one hundred and thirty-nine. Number of feet, 6,250. Total length of trenching, 6,548 feet. Average cost of services, \$19.74.

Thirty-five leaks have occurred during the past year, and were from the following causes:—

Defective soldering	15
Defective coupling	4
Settling of sewer trenches	5
Picks	3
Burst by frost	8
	<hr/>
Total	35

Seventeen were stopped by rust, and were retapped at the corporation; twelve were stopped by fish, and twenty-seven by frost; two hundred and fifteen cast-iron gate boxes have been substituted for decayed wooden ones. Water has been shut off from seventy-two dwellings and stables, during the repair of leakages inside the premises.

STANDPIPE FOR WATERING STREETS.

One new standpipe has been set near the junction of Main Street and Broadway. One on School Street has been removed and located on Somerville Avenue, opposite the cemetery.

I would recommend the setting of four additional standpipes the coming season, in localities to be determined upon.

The cost of setting standpipe on Broadway and repairs upon others has been \$77.90.

DRINKING FOUNTAINS.

These have been a source of great trouble during the past year. A number have been broken and defaced by persons unknown, and it has been found almost impossible to keep chains and dippers attached because of theft. The wastes have been often filled up, causing overflow, whereby the immediate vicinity of each fountain has been kept almost constantly in bad condition. To remedy this I recommend an entire change of wastes and supplies.

The fountain in Union Square, to which I referred in a previous report, has been frequently out of order and broken by teams, and will either have to be discontinued or some change made.

STOP-GATES.

Stop-gates have been set on old mains and located as follows : —

Marshall Street, near Evergreen Avenue	1 6-inch.
School Street, near Avon Street	1 4-inch.
Walnut Street, near Boston Street	1 4-inch.
Somerville Avenue, near Linden Street	1 6-inch.
Webster Street, near Glen Street	1 6-inch.
Joy Street, near Poplar Street	1 6-inch.

The four-inch gates on the following streets have been replaced by six-inch gates, on account of the laying of larger pipe : —

Broadway, corner Mt. Vernon Street	1
Mt. Vernon Street, corner Perkins Street	1
Broadway, corner Cutter Street	1
Cutter Street, corner Webster Street	1
Webster Street, corner Franklin Street	1

One four-inch gate has been set on the extension on Somerville Avenue, opposite Garden Court.

Repairs upon stop-gates have been made as follows: seventy-four have been repacked; two have had new spindles; twenty have had new boxes; nineteen have had general repairs.

Six of the small plug gate boxes have been removed, and replaced by large boxes with cover and frame.

All have been examined twice the past year, oiled, and are in good order. The whole number of stop-gates in the city is three hundred and ninety-two, twenty of which are marked and used for blow-offs.

BLOW-OFFS.

Of the blow-offs referred to in a previous report, twelve have been set and connected with the sewers, and are located as follows : —

Denny Court, near B. & M. R. R.	1 2-inch.
Thorp Place	1 2-inch.
Hamlet Street	1 2-inch.
Washington Street, near Boston line	1 6-inch.
Springfield Street, near Cambridge line	1 4-inch.
Pearl Street, near Franklin Street	1 4-inch.
Oliver Street, near Glen Street	1 4-inch.
Elm Street, near Russell Square	1 4-inch.
Marshall Street, near Evergreen Avenue	1 4-inch.
Beacon Street, near Sacramento Street	1 4-inch.
Garden Court, near Fitchburg Railroad	1 4-inch.
Chester Court	1 2-inch.

Making the whole number now set, twenty.

These blow-offs have been found to be of great convenience in keeping the pipes clean, and they also save a large amount of labor. The work can be done during the night; and the water thus having time to settle by morning, little or no inconvenience is caused to consumers.

I would recommend the setting of twelve more in different parts of the city, the locations to be hereafter decided upon.

HYDRANTS.

During the past year the hydrants have received especial care, and a large number of them have been thoroughly repaired. In extreme cold weather they have required constant attention and much labor to insure their proper condition for use in case of fire. As the disk hydrants, of which there is a large number, are so constructed that the waste is above the main pipe, and also some three inches above the valve, they are rendered unreliable in extreme cold weather on account of freezing. By order of your board, and as an experiment, one of these hydrants has been altered to the Pattee & Perkins patent, and its working has proved eminently satisfactory. Other cities and towns in this vicinity, where the disk hydrants have been in use, are replacing or altering them as above, and I recommend similar action with regard to the remainder of those in our city.

Six new hydrants have been set during the year,—five on old mains and one on the extension,—and located as follows:—

Garden Court, near Fitchburg Railroad.

Poplar Street, near Joy Street.

Somerville Avenue, opposite Henderson's carriage factory.

Somerville Avenue, near Beach Street.

Summit Avenue, near Walnut Street.

Oxford Street, near School Street.

One flush hydrant has been removed from Webster Street. The hydrant on Prospect Street, near the Fitchburg Railroad, has been removed on account of change in the line of the street; and a new Holyoke hydrant placed on the opposite side of the street, near Newton Street. The post hydrant on Joy Street, complained of as an obstruction, has been removed, and replaced by a flush hydrant.

Seventeen hydrants have been taken out and replaced by new and repaired ones; twelve have had new valves and gaskets; thirteen have had the clay soil removed from around the jackets and gravel filling substituted; and eight, found frozen, were thawed out.

Change in the grade of sidewalks will necessitate the raising of a number of hydrants during the coming season.

The whole number of hydrants in the city is two hundred and eighty-three.

STOCK ACCOUNT.

Pipe lined	\$398 52
Pipe not lined	394 44
Sleeves on hand	4 50
Gates on hand	143 45
Branches on hand	437 70
Sheet iron on hand	1,411 15
Hydrants on hand	207 00
Water service materials	961 78
Total amount of available stock	<u>\$3,958 54</u>

<i>Amount brought forward</i>	. . . . .	\$3,958 54
Sundry tools, horses, wagons, etc., as per inventory,	. . . . .	4,210 83
Total amount stock, tools, etc., on hand Jan. 1, 1882,	. . . . .	<u>\$8,169 37</u>

Respectfully submitted,

NATHANIEL DENNETT,
Superintendent.

EIGHTH ANNUAL REPORT

OF THE

CITY ENGINEER OF SOMERVILLE.

1881.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 8, 1882.

Received and ordered to be printed in the Annual Reports of 1881; sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 8, 1882.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

CITY ENGINEER'S OFFICE, Jan. 24, 1882.

To his Honor the Mayor and the City Council :

GENTLEMEN, — The City Engineer presents the following report for the year 1881.

SEWERS.

Eight thousand nine hundred and fifty-seven and one half feet of sewers have been built during the year, as follows: Brick, 749 feet; pipe, 8,208.5 feet. In these were built thirty-nine man-holes and six hundred and twenty-five inlets.

The following table will show the location, cost, assessment, length, size, etc., of each sewer: —

TABULAR STATEMENT OF SEWERS BUILT IN 1881.

LOCATION.			CONSTRUCTION.							COST.			
Name of Street.	From	To	Built by	Materials.	Size in Inches.	Manholes.	Inlets.	Length in feet.	Average cut.	Average cost per foot.	Total cost.	Assessment.	Cost to city.
¹ Belmont	Somerville Ave.	n. Summer St.	Maurice Terry	Akron pipe.	12	6	87	1,257.5	7.7	\$1.93	\$2,427.63	\$1,745.28	\$682.35
Berkeley	School St.	End of street.	Richard Falvey	Brick.	24 X 17	4	65	683.0	9.7	1.87	1,276.95	816.48	460.47
Boston	Washington St.	High St.	Dennis O'Connell.	Akron pipe.	12	1	20	402.3					
High	Boston	Westerly.	"	"	12	2	48	716.7	10.8	1.36	1,451.55	1,102.30	1,349.25
² Broadway	n. Clarendon Ave.	Lincoln School.	Chas. A. Mongan.	"	12	1	12	249.0	9.9	2.34	581.83	344.71	237.12
³ Clarendon Ave.	Private lands.	Near Broadway.	Dennis O'Connell.	"	12	3	20	382.0	7.4	2.03	776.93	349.55	427.38
⁴ Private lands.	Newbury St.	Clarendon Ave.	"	"	12	2	48	611.0	7.1	1.06	649.96	497.66	152.30
Maple	Poplar St.	Near Medford St	Patrick Terry	Brick	24 X 17	1	6	66.0	12.1	1.40	324.98	200.80	124.18
Morrison	End of old sewer.	Willow Ave.	Dennis O'Connell.	Akron pipe.	12	0	10	166.0	5.9	0.84	211.66	176.45	35.21
Willow Ave.	Morrison St.	Northerly	"	Portul'd pipe.	12	0	15	250.5	5.5	0.77	133.96	118.66	23.30
Orchard	Chester St.	Northwesterly	Chas. A. Mongan	"	12	0	9	174.5	10.2	1.47	1,951.57	1,574.08	377.49
Orchard	Day St.	Near Central St.	"	Akron pipe.	12	7	101	1,325.0					
⁵ Otis.	School St.	Near Central St.	Richard Falvey	"	12	2	32	355.5	8.5	1.92	1,008.50	654.78	353.72
⁶ Wigglesworth.	Near Dana St.	Wiggles'w'th St.	"	"	12	1	11	168.5	9.5				
Russell.	Elm St.	Southerly	Chas. A. Mongan	Portul'd pipe.	15	1	12	203.7	8.7	1.16	579.15	260.40	318.75
Village	Cottage Ave.	Cottage Ave.	"	"	12	1	20	295.3	4.8	0.84	308.79	235.08	73.71
Village	Dane St.	Near Hanson St.	"	Akron pipe.	12	1	23	366.0	5.7	0.98	452.41	348.62	103.79
Village	Winslow Ave.	Elm Court.	S. & M. Buttmer.	Portul'd pipe.	12	1	17	291.0	8.4	1.48	488.44	330.84	157.60
⁷ Walnut	Grove St.	Villa Ave.	"	"	12	1	9	172.0	7.7	1.24	613.08	469.06	144.02
Wheatland.	Pearl St.	Veazie St.	Richard Falvey	Akron pipe.	12	2	42	329.5					
Wheatland.	Jaques St.	Near Broadway.	"	"	12	2	42	492.5					
Poplar	Somerville Ave.	Maple St.	Patrick Terry	Brick	33 X 22	1	13	191.0	10.0	\$2.83	\$540.45	\$9,216.75	\$4,020.64

REBUILT.

¹ 261.2 cubic yards of rock.	² 65.0 cubic yards of rock.	³ 33.8 cubic yards of rock.	⁴ 21.8 cubic yards of rock.
⁵ 88.9 cubic yards of rock.	⁶ 14.1 cubic yards of rock.	⁷ 40.0 cubic yards of rock.	
Total length of sewers built previous to Jan. 1, 1881			158,549.8 feet.
Total length of sewers built during the year 1881			8,957.5 "
Total			167,507.3 feet, or 31.7 miles.

SEWER OUTLETS.

The deposit of sewage near the outlet of the main sewer under Craigie Bridge, in East Cambridge, was removed by dredging; that portion under the bridge and adjoining wharves was flushed out by a stream from a steam fire engine. The deposit was placed in scows, and towed down the harbor to near Hangman's Island; the whole cost of the work was \$1,659.69, of which Somerville paid \$922.05, being five ninths of the whole cost. Amount of deposit removed, 2,012 cubic yards.

A nuisance was created by the deposit of sewage on the flats near the outlet of the Waverly Street sewer, which was partially abated by the Boards of Health of Boston and Somerville. The three sewer outlets on the northerly side of Mystic Avenue continue to discharge into open ditches, and are the subject of complaint from the owners of the lands.

PRIVATE DRAINS.

Two hundred and thirty-four permits were issued for laying private drains; two hundred and twenty-one for new connections; and thirteen for repairs.

Two persons were licensed by the Board of Aldermen, and one license revoked; one drain layer has deceased, making the present number of licensed drain layers, twenty-three.

CATCH-BASINS.

Thirteen catch-basins were constructed during the year, at an average cost of \$70.49. Nineteen old and decayed wooden covers were removed, and replaced by cast-iron covers. Fourteen hundred and fifty-seven loads of deposit were removed from the catch-basins, at a cost of sixty-one and six tenths cents per load.

MANHOLES.

One manhole was constructed on the Mt. Pleasant Street sewer. I would renew my recommendation of last year, that manholes

be built on the old sewers, to give an opportunity for frequent inspection.

METROPOLITAN SEWERAGE SYSTEM.

The commission appointed by the governor and council, in pursuance of a resolve of the Legislature of 1881, to report a plan for the drainage of the valleys of the Charles and Mystic Rivers, have recently submitted a report to the Legislature.

The report recommends a metropolitan sewerage system to intercept the sewage now discharging into the Charles and Mystic Rivers, and also provides for the removal of the sewage from the towns located in the valleys of the Charles and Mystic Rivers and a portion of the valley of the Neponset River.

The total estimated expense is \$13,000,000, and several methods for the apportionment of the cost among the different cities and towns are suggested. If the expense is apportioned according to population, Somerville's share would be \$564,673; by area, \$256,732; by population and area combined, \$79,095; by value of real estate, \$432,970; by total of real estate and personal property, \$360,940.

The recommendations contained in the report refer only to a general system. The details are not given. The routes of the intercepting sewer and branches are not determined, therefore it is impossible to estimate the cost to our city of adapting our present system of sewers to the proposed metropolitan system.

In my opinion this subject, which contemplates the expenditure of \$13,000,000, should receive further and exhaustive investigation by men of skill and experience in the matter of sewerage; that careful and complete surveys should be made; that the several locations proposed for an outfall be examined; that the most practicable routes for the intercepting sewer and branches be determined; that the details of the whole system be carefully worked out; that an estimate be made of the cost of the entire system, — all of which should be reported to the Legislature.

The cities and towns interested would then have an opportunity to know exactly how the system would affect each, and the data from which to estimate the cost of making connections and adapting each of the present systems to the metropolitan system.

The plan should then be adopted by the Legislature ; after which the several cities and towns that are each year extending sewers could plan and construct their sewers so that in the future they would be in conformity with and a part of the general system.

EXPENDITURES FOR SEWERS.

The following table will show the expenditures for sewers during the past five years, the cost of maintenance per mile, average cost of catch-basins, lengths of brick and pipe sewers, and other information : —

CITY OF SOMERVILLE — SEWER DEPARTMENT.

RECEIPTS.	1877.	1878.	1879.	1880.	1881.	1882.
Appropriation	\$16,000 00	\$7,000 00	\$7,500 00	\$7,500 00	\$8,000 00	
Received by transfer			5,600 00			
“ from entrance fees, etc.....	107 00	20 00			176 89	
Materials on hand, Jan. 1	43 02	159 52	212 74	219 17	236 93	
Assessments	11,083 62	4,821 00	13,449 13	10,009 50	9,216 75	
	\$27,233 64	\$12,000 52	\$26,761 87	\$17,728 67	\$17,630 57	
EXPENDITURES, CONSTRUCTION.						
Abatements.....		\$67 76	\$47 53		\$272 76	
Catch-basins, building, total cost.....	\$2,317 25	1,311 67	578 06	\$909 07	916 32	
Craigie Bridge outlet, extending.....	2,661 52					
Drains, to vacant lands.....		128 48				
Edge stones, setting and paving.....	50 70					
Manholes, building, on old sewers.....	302 76			132 20	41 60	
Sewers, new, building	16,766 83	7,507 88	24,575 34	16,350 20	13,237 39	
“ rebuilding.....	110 18		2,524 50	1,323 29	540 45	
“ improvements on Washington Street, near F. R. R.....		322 80				
Total expenditure for construction	\$22,209 24	\$9,338 59	\$27,725 43	\$18,714 76	\$15,008 52	
EXPENDITURES, MAINTENANCE.						
Blow-offs, from water-pipes					\$48 00	
Books and stationery	\$74 20	\$52 50	\$34 50	\$67 50	31 25	
Catch-basins, repairs on.....	587 99	372 86	590 37	416 42	229 99	
“ cleaning	831 25	953 31	708 51	602 87	838 18	
“ clearing mouths of	79 72	82 88	168 80	88 38	251 28	
“ changing lines and grades of		20 35		18 25	63 85	
“ examining		3 50	3 50	5 62	3 50	
Clerk, salary				200 00	200 00	
Craigie Bridge outlet, dredging	111 00				922 05	
“ “ repairs					50 65	
Ditches, cleaning.....		29 49	11 00	45 50	29 12	
Manholes, repairing.....	53 96	135 80	8 25	16 74	70 50	
“ changing lines and grades.....	57 05	34 84	17 50	16 75	93 47	
“ cleaning dirt-catchers.....	202 89	235 82	231 25	30 37	18 00	
Materials, depreciation		5 00	10 66	1 06	8 70	
Miscellaneous.....	39 68	104 24	70 80	324 10	88 66	
Sewers, repairing	84 15	52 52	13 83	52 25	12 05	
“ flushing		47 63	49 50	93 75	156 37	
“ cleaning.....	132 98	38 75	134 69	186 27	29 83	
“ examining.....	28 32	47 42	14 63	145 62	65 95	
“ ventilating	81 26	23 19				
Surveys.....		13 92			84 85	
Superintendent's salary and team, 2 months,	150 00					
Storehouse, fitting up.....	44 32					
Tide gates	39 82	5 75				
Tools, purchased	163 24	106 46	83 79	26 67	75 78	
“ repairs on	48 61	69 33	15 66	13 66	33 44	
“ arranging		7 02	12 00	3 49		
Total expenditure for maintenance	\$2,860 44	\$2,447 58	\$2,179 24	\$2,355 27	\$3,468 52	
“ “ “ construction	22,209 24	9,338 59	27,725 43	18,714 76	15,008 52	
Materials, value of, Dec. 31.....	159 52	212 74	219 17	236 93	259 05	
Total	\$25,229 20	\$11,998 91	\$30,123 84	\$21,306 96	\$18,736 09	
Balance unexpended	2,004 44	1 61				
Amount overdrawn.....			3,361 97	3,578 29	1,105 52	
Sewers, new, building, net cost to city ...						
“ miles built each year.....	\$5,683 21	\$2,686 88	\$11,126 21	\$6,340 70	\$4,020 64	
“ miles of pipe, Jan. 1	2.4	1.3	3.0	1.7	1.7	
“ miles of brick, Jan. 1	1.3	1.6	2.4	3.9	4.5	6.1
“ total miles of, Jan. 1.....	*20.3	*22.4	*22.9	*24.4	*25.5	*25.6
“ cost of maintenance, per mile, including catch-basins.....	21.6	24.0	25.3	28.3	30.0	31.7
Catch-basins, number built each year.....	\$132 43	\$100 31	\$86 14	\$83 23	†\$115 62	
“ average cost of each.....	35	24	10	14	13	
“ total number in city, Jan. 1..	\$66 21	\$54 65	\$57 80	\$64 93	\$70 49	
“ loads of deposit removed....	403	438	462	472	486	499
“ cost of cleaning per load	1,449	1,659	1,212	993	1,457	
	\$0 57	\$0 58	\$0 58 ¹	\$0 61	\$0 61 ³	

* Including 13³/₅ lin. ft. (0.2 mile) of plank sewer.

† \$84 88 per mile, excluding \$922.05 for dredging at Craigie Bridge.

SIDEWALKS.

The following table will show the sidewalk improvements during the year: —

Street.	Side.	From	To	Materials.	Approx. length of walk in feet.	Cost.
Chester ..	Northwesterly.	Orchard Street .	Herbert St...	Brick and edge stone,	405	\$510 68
Gilman ..	Both	Cross Street....	Angle.	Brick	1,305	751 62
Putnam ..	Both	Highland Ave. .	Summer St. .	Gravel and edge stone,	2,537	1,818 76
Walnut ..	Southeasterly..	Highland Ave. .	Boston St....	Gravel and edge stone,	616	442 48
Total ....	.....	.....	.....	.....	4,863	\$3,523 54

The Board of Aldermen assessed one half the cost on the abutters.

STREETS.

The following table will show the streets accepted by the City Council during the year: —

STREETS ACCEPTED IN 1881.

Name of Street.	From	To	Width in feet.	Length in feet.
Eliot.....	Vine Street.....	Park Street.....	40	291
Cross	Medford Street	High Street.....	40	596.5
Cross	Broadway	Mystic Avenue.....	40	1,098.0

ENGINEERING EXPENSES FOR 1881.

Salary of City Engineer, including maintenance of team	\$1,900 00
Salaries of assistants	1,109 35
Repairing instruments, stationery, spikes, tools, etc.,	124 31
	<hr/>
	\$3,133 66

Respectfully submitted,

GEORGE A. KIMBALL,
City Engineer.

ANNUAL REPORT

OF THE

COMMITTEE ON SEWERS.

1881.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1881.

Report accepted and referred to the next city government to be printed in the Annual Reports, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON SEWERS, Dec. 30, 1881.

To the Board of Somerville :

The Committee on Sewers, having reported upon all matters that have been referred to them, present the following exhibit of the Sewers account for the year 1881 : —

Appropriation,	\$8,000 00	
Received fees for entering sewers,	176 89	
Value of materials on hand, Jan. 1,	236 93	
		\$8,413 82

EXPENDED.

For 16 new sewers (as per accompanying table),	\$13,237 39	
Less assessments,	9,216 75	
Net cost to city,	\$4,020 64	
For rebuilding sewer in Poplar Street,	540 45	
“ 13 catch-basins (average \$70.49),	916 32	
“ 1 manhole,	41 60	
“ clearing mouths of catch-basins,	251 28	
“ cleaning catch-basins,	898 18	
“ repairing “	229 99	
“ examining “	3 50	
“ changing lines and grades of catch-basins,	63 85	
“ repairing sewers,	12 05	
“ flushing “	156 37	
“ examining “	65 95	
“ cleaning “	29 88	
“ repairing manholes,	70 50	
<i>Amounts carried forward,</i>	\$7,300 56	\$8,413 82

<i>Amounts brought forward,</i>	\$7,300 56	\$8,413 82
For changing grades of manholes,	93 47	
“ cleaning manhole dirt catchers,	18 00	
“ “ ditches,	29 12	
“ blow-offs from water pipes into sewers,	48 00	
“ surveys on the Mystic River,	84 85	
“ removing obstructions from drain in Pearl Street,	19 58	
“ repairing drain in Broadway,	40 55	
“ removing deposit and repairing gate chamber at mouth of Bridge Street Sewer, Cambridge,	972 70	
“ abatements of assessments of the year 1880,	272 76	
“ tools and personal property,	75 78	
“ repairing tools and personal prop- erty,	36 44	
“ books and stationery,	31 25	
“ clerk's salary,	200 00	
“ sundry small expenses,	28 53	
“ depreciation in value of materials,	8 70	
“ value of materials on hand this day,	259 05	
Total expenses,		<u>9,519 34</u>
Excess of expenses over appropriation, etc.,		<u><u>\$1,105 52</u></u>

Appended to this report is a table, prepared by the City Engineer, showing the location, materials, size, length, and cost of sewers built, and of the sewer rebuilt, during the year.

For the committee,

MARTIN W. CARR, *Chairman.*

GEO. I. VINCENT, *Clerk.*

SEWERS BUILT IN 1881.

Street.	From	To	Materials.	Size in inches.	Manholes.	Inlets.	Length in feet.	Total cost.	Assessment.	Cost to city.
Belmont.....	Somerville Ave.....	Near Summer Street.	Akron pipe.....	12	6	87	1,257.5	\$2,427.63	\$1,745.28	\$692.35
Berkeley.....	School Street.....	Near end of street...	Brick.....	24 X 17	4	65	683.0	1,276.95	816.48	460.47
Boston.....	Washington St.....	High Street.....	Akron pipe.....	12	1	20	402.3		1,102.30	349.25
High.....	Boston Street.....	Land L. E. Hutchins.	"	12	2	48	716.7	1,451.55		
Broadway.....	n. Clarendon Ave.....	Lincoln School.....	"	12	1	12	249.0	581.83	344.71	237.12
Clarencou Ave.....	Private lands.....	Near Broadway.....	"	12	3	20	382.0	776.93	349.55	427.38
Private Lands.....	Newbury Street.....	Clarendon Ave.....	"	12	2	48	611.0	649.96	497.66	152.30
Maple.....	Poplar Street.....	Near Medford Street.	"	12	1	6	66.0	324.98	200.80	124.18
Morrison.....	End of old sewer.....	Willow Ave.....	Brick.....	24 X 17	1	10	166.0			
Willow Ave.....	Morrison Street.....	Northerly.....	Akron pipe.....	12	1	15	250.5	211.66	176.45	35.21
Orchard.....	Chester Street.....	Northwesterly.....	Portland pipe.....	12	0	9	174.5	133.96	110.66	23.30
Orchard.....	Day Street.....	Northwesterly.....	"	12	7	101	1,325.0	1,951.57	1,574.08	377.49
Oxford.....	School Street.....	Near Central Street..	Akron pipe.....	12	2	32	355.5	1,008.50	654.78	353.72
Otis.....	Near Dana Street.....	Wigglesworth St.....	"	12	1	11	168.5			
Wigglesworth.....	Otis Street.....	Southerly.....	"	12	1	11	168.5			
Russell.....	Elm Street.....	Cottage Ave.....	Portland pipe.....	15	1	12	203.7	579.15	260.40	318.75
Russell.....	Cottage Ave.....	Orchard Street.....	"	12	1	20	295.3			
Village.....	Dane Street.....	Near Hanson Street..	Akron pipe.....	12	1	23	366.0	308.79	235.03	73.71
Villa Ave.....	Winslow Ave.....	Elm Court.....	Portland pipe.....	12	1	17	291.0	452.41	348.62	103.79
Winslow Ave.....	Grove Street.....	Villa Ave.....	"	12	1	9	172.0			
Walnut.....	Pearl Street.....	Near Veazie Street..	Akron pipe.....	12	1	18	329.5	483.44	330.84	157.60
Wheatland.....	Jaques Street.....	Near Broadway.....	"	12	2	42	492.5	613.08	469.06	144.02
Totals.....					39	625	8,957.5	\$13,237.39	\$9,216.75	\$4,020.64

SEWER REBUILT IN 1881.

Poplar.....	Somerville Ave.....	Maple Street.....	Brick.....	33 X 22	1	13	191.0	\$540.45	\$540.45
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GEO. A. KIMBALL,
City Engineer.

ANNUAL REPORT
OF THE
COMMITTEE ON HIGHWAYS
FOR
YEAR 1881.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1881.

Report accepted and referred to the next city government to be printed with the City Reports for the year 1881, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON HIGHWAYS, Dec. 29, 1881.

To the City Council:

The Committee on Highways respectfully submit this, their annual report, showing briefly what has been undertaken and accomplished during the year 1881.

SNOW AND OTHER STORMS.

Your committee are glad to report that the expenditure called for in this direction has been comparatively light; and as it is one that cannot be estimated, it is always a matter of anxiety till the end of the year, as at any time the unforeseen and immediate expenditure of large amounts of money may be demanded to repair serious damage done by the elements.

The expenditure for this year amounts to \$611.78.

MIDDLESEX AVENUE

Has always been a cause of outlay and anxiety to your committee, and this year the matter culminated in a petition to the County Commissioners from the citizens of Malden, Melrose, and Medford, calling their attention to the state of the avenue.

This compelled your committee to take some action in the matter, and the Superintendent of Streets was therefore instructed to commence the repair and improvement of the avenue; and it was put in such good condition that when visited by the County Commissioners, it was, after the public hearing which followed, accepted by them as a public highway: and a vexed question has been thus satisfactorily settled and determined, at an outlay and cost of \$2,690.46.

SOMERVILLE HORSE RAILROAD.

There have been some improvements made on this road. The old and unsightly T-rail has been removed from the side of Elm Street,

and a new track laid in the middle of the street, and the roadway paved at the expense of the company, from Cherry Street to the car-house on Dover Street. The company has also laid a new track from the car-house on Dover Street, through Holland Street to Clarendon Hill, this roadway also being paved at their own expense.

THE CHARLES RIVER STREET RAILWAY COMPANY.

This new company has commenced its operations in our city by laying a double track from Wesley Square to Union Square, the company paving the whole of the roadway; a double track also on Webster Avenue from Union Square to the Fitchburg Railroad Crossing, and a single track on Webster Avenue, from the railroad crossing to Prospect Street; and a single track from Webster Avenue, through Newton and Springfield Streets, to the Cambridge line; and on Beacon Street a single track, from the Cambridge line to Washington Street; and have also from time to time been granted other locations for tracks in various streets, which, on account of the lateness of the season, they have been debarred from building upon.

The work as constructed so far has been under the supervision of your committee and the Superintendent of Streets, and to their entire satisfaction; and it is pleasant to be able to state that the company in question have been exceedingly thorough in the laying of their tracks, and paving, and attentive to any suggestion from your committee.

Your committee desire, before closing this subject, to respectfully invite the attention of our citizens to the work this corporation has undertaken and commenced, and which if consummated will give our city quick and easy access from many of its parts now not touched by horse railroads, to our neighboring cities of Cambridge and Boston; the system inaugurated by this company being to gather in those streets in our city now without accommodation, and by a short and rapid route, which contemplates a bridge across the Charles River, to land them in either Cambridge or Boston. The system seems to your committee one that should be encouraged, and one that will open up our city and offer many advantages.

SCHOOL STREET BRIDGE.

In the opinion of your committee, the time has come when something definite should be done to have a proper and suitable structure erected over the Lowell Railroad on this street. The matter has received serious consideration from different committees; but no definite plan has ever been agreed upon between the city and the Lowell Railroad corporation, and it seems imperative that something should be done in the coming year.

In the opinion of your committee, at this moment the approaches and structure crossing the road at this point are in a dangerous condition; and it is to be hoped that the City Council will make this a matter of special consideration early in the coming year, and have some plan fixed and agreed upon between the city and the Lowell Railroad corporation, looking to the immediate removal of this unsightly and unsafe structure, or its permanent and thorough renovation.

STONE BREAKER.

Your committee can only reiterate their report of last year, namely: —

“Everything in the shape of stone can be fed to this machine at a nominal cost, and distributed upon the highways in its most valuable form; it is considered an invaluable adjunct to the economy aimed at in the repair and preservation of highways, and it now seems impossible to conceive how the department has ever done so long without it.”

There has been fed to this machine during the present year over 6,000 loads of stone.

CLOSED GATES AT THE FITCHBURG RAILROAD CROSSING
ON SACRAMENTO STREET.

This vexed question was, as usual each year, referred to your committee in the form of a petition. It is desired here to record the report made upon said petition to the City Council, so that our citizens may perfectly understand the condition in which the matter now stands.

To the City Council :

The Committee on Highways report submitting the following communication from the City Solicitor on the subject of closed gates, on Sacramento Street.

“CITY SOLICITOR’S OFFICE, Nov. 14, 1881.

“*To Committee on Highways :*

“In reply to your communication, would state that the matter of laying out Sacramento Street across the Fitchburg Railroad location stands exactly where it did when I made my last annual report to the Committee on Claims, from which in answer to your inquiry I extract the following: ‘Somerville *v.* the Fitchburg Railroad for grade crossing at Sacramento Street. The issue in this case was most ably and thoroughly presented to the County Commissioners by the ex-City Solicitor, Robinson, in behalf of the city, in 1875, and without avail. It has not been tried again since that time, and with the well-known hostility of the Railroad Commissioners to grade crossings, cannot be urged a second time until the citizens of Cambridge and Somerville living in the vicinity of the street shall take sufficient interest in the case to furnish the solicitor with the facts in the case which establish the necessity of such a crossing.’”

FITCHBURG RAILROAD CROSSING ON SOMERVILLE AVENUE NEAR MILLER’S RIVER.

This was a matter of a system of gates and lights which your committee last year were unable to agree upon with the Fitchburg Railroad Corporation, and invited the attention of the present City Government to the question; the result has been that a special committee on the part of the Board of Aldermen and the Fitchburg Railroad Corporation have agreed upon and perfected a system and plan of gates, before the County Commissioners, and it only remains for them to issue the necessary order, to end this long controversy and establish a needed safeguard.

WATERING STREETS.

This year for the first time the care of the watering of the streets, and the appropriation for the same, \$4,000, was placed in charge of this committee.

The work has been made systematic by laying it out into districts. The number of watering carts has been increased from six

to nine, and the care and attention needed have come — very naturally, it is thought — under the charge of the Superintendent of Streets.

Citizens have responded freely in providing their part of the expense needed to water any one street, and your committee have tried to give full service to all streets whose residents desired the water enough to make the proper application and pay the amount fixed upon by your committee at so much each lineal foot.

ROAD SCRAPER.

An extremely useful machine for the clearing of gutters, etc., of weeds and obstructions has been purchased for the sum of \$140, and been in use for several months, giving great satisfaction.

MYSTIC AVENUE

Has received attention from your committee, and the following work done upon it: The ditch abutting on William Jacques's land and the avenue has been filled in, and the ditch between Peter Gordon's estate and the avenue has also been filled in; besides this, a large amount of filling has been done on the Klous estate, and all possible has been performed by your committee to improve and perfect the avenue: and in compliance with the manifest desire of the City Council, your committee have expended upon it this year about \$4,000.

Attention is invited to the following tables, schedules, etc., which present in a concise form the general work of the committee for the year.

STREETS GRADED, REPAIRED, ETC.

NAME.	FROM	To			
Putnam	Highland Ave..	Summer.....	1,200	ft. mac'ized and gravel'd.	
Cedar	Highland Ave..	R. R. Crossing,	800	"	"
Holland	Broadway	Irving.....	1,600	"	"
Summer	Laurel	Prescott	1,200	"	"
Webster Ave..	Union Sq.	Prospect.....	900	"	"
Bow.....	Union Sq.	Wesleyan Sq..	500	"	"
Norfolk.....	Webster Ave..	Camb'dge line,	250	"	"
Tremont.....	Webster Ave..	Camb'dge line,	450	"	"
Middlesex Ave.	Mystic Ave.....	.....	1,400	"	"
Medford	Camb'dge line..	.....	1,000	"	"
Village	Dane.....	Vine.....	400	"	"
Franklin Ave..	Washington ...	.....	872	"	"

SIDEWALKS CONSTRUCTED.

Abutters paying one half cost of construction.

NAME.	SIDE.	FROM	To	Feet of edge stone.	Yards of brick.
Putnam	Both..	Highland Ave..	Summer	2,005	
Gilman.....	Both..	Cross .....	.....		838
Walnut	South.	Highland Ave..	Boston.....	614	
Chester	North.	Herbert	Orchard.....	429	273

PRIVATE SIDEWALKS CONSTRUCTED.

City contributing only the labor of construction.

NAME.	STREET.	Feet of edge stone.	Yards of brick.
J. F. Young	Hawkins	60	
P. Rafferty	Hawkins	95½	
C. Linnehan	Linwood	45	
— Sturtevant	Hawkins	53	
Mrs. Burley and others.....	Franklin Ave... ..	871½	364
<i>Abutter paying whole cost.</i>			
C. W. Kingsley	Chester Place	416	233

STREET SIGNS ERECTED.

Hathorn Street,
 Lincoln Street,
 Bow Street,
 Summer Street,
 School Street,

Washington Street,
 Oak Street,
 College Avenue,
 Columbus Avenue.

STREET CROSSINGS CONSTRUCTED.

Pearl Street, at Hillside Avenue.
 Grove Street, at Elm Street.
 Elm Street, at Grove Street.
 Bow Street, at Wesleyan Square.
 Broadway, at Cutter Street.
 Broadway, at Cross Street.
 Marshall Street, at Howe Street.
 Putnam Street, at Summer Street.
 Holland Street, at Newbury Street.
 Newbury Street, at Holland Street.
 Chester Place, at Chester Street.
 Cross Street, at Medford Street.

STREET CROSSINGS RECONSTRUCTED

Putnam Street, at Highland Avenue.
 Mt. Vernon Street, at Perkins Street.
 Mt. Vernon Street, at Broadway.
 Walnut Street, at Bow Street.
 Cross Street, at Otis Street.
 Cross Street, at Bonair Street.
 Medford Street, at Cross Street.
 Boston Street, at Walnut Street.
 Elm Street, at Sawyer's.
 Elm Street, at Mink's.
 Elm Street, at Cherry Street.
 Elm Street, at Grove Street.
 Elm Street, at Willow Avenue.

CULVERIS (WOODEN).

Middlesex Avenue, 2.	Holland Street, 1.
Sargent Avenue, 1.	Summer Street, 1.
Mystic Avenue, 1.	Morrison Street, 1.

CULVERT (STONE).

Holland Street.

PERMITS.

For hitching post,	8
Digging up streets,	163
Occupying sidewalks,	10

TREES.

Permits for setting out trees,	230
Number of trees cut down,	24

PAVING, ETC.

Gutters repaved, 252 yards; edge stone reset, 895 feet; brick sidewalk repaved, 393 yards; whole number of yards of stone paving, 3,834; brick paving, 2,142 yards; whole number of feet of edge stone set, 5,968 yards; number of loads of ashes collected, 4,559.

AMOUNTS CHARGED TO DIFFERENT DEPARTMENTS FOR
LABOR PERFORMED OR MATERIALS SUPPLIED.

Health Department,	\$1,185 70
Fire Department,	36 00
Street Watering,	87 10
Public Property,	146 00
Sidewalks,	190 00
Somerville Water Works,	39 60
Sewers,	3 00

BILLS DELIVERED TO CITY TREASURER FOR COLLECTION.

Town of Wakefield, 555 yards of gravel,	\$55 50
Owen Cunningham, 11 loads of gravel. at \$0.40,	4 40
Arthur Moland, rent,	65 00
C. H. North, constructing driveway,	7 00
E. Bowker, pasturage, Waltham,	40 00
C. A. Mongan, 12 loads gravel, at \$0.25,	3 00
D. Brooks, 30 loads stone, at \$0.70,	21 00
C. W. Kingsley, constructing sidewalk, setting edge stone, etc.,	104 74

CASH RECEIVED AND PAID TO CITY TREASURER.

Chas. Hale, for constructing driveway,	\$7 00
Geo. W. McKenna, old junk and sods,	5 30
W. Roberts, sods,	1 25
Second Baptist Society, constructing driveway,	15 10
L. B. Stetson, gravel,	2 00
J. Conehey, sods,	12 00
P. Keffe, grass,	30 00
A. C. Winning, grass,	30 00
Cost of handling snow,	611 78
Middlesex Avenue has been reconstructed at a cost of	2,690 46
Boston Avenue Bridge has been replanked at a cost of	290 73

Mystic Avenue, 2,000 squares of filling has been done on the south side.

New streets accepted but not completed : Elliott Street, running from Park Street to Vine Street ; Cross Street, from Broadway to Mystic Avenue ; Cross Street, from Medford Street to High Street. Very little work has been done on these streets.

ASA DURGIN,
Chairman Committee on Highways.

Attest :

DOUGLAS FRAZAR, *Clerk.*

ANNUAL REPORT
OF THE
TRUSTEES OF THE PUBLIC LIBRARY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 31, 1882.

Received and ordered to be printed in the Annual Report of 1881, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 1, 1882.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

PUBLIC LIBRARY.

NINTH ANNUAL REPORT.

To the Members of the City Council :

GENTLEMEN, — The trustees of the public library have no changes of importance to report in regard to its interests and conduct during the past year. With the purchase of valuable books, and the constant purpose in making additions to supply its defects, and enlarge it in those departments which are of most value and service to the public, it is every year gaining new power to fulfil the end for which it was established, — to assist other public agencies of intelligence and culture in the community, and make the access to good books easy and convenient; and the evidence multiplies that there is general appreciation among our citizens of the privileges thus furnished them. Not, indeed, that the most valuable books are read so generally as we could desire, or that the library is sought with the serious purpose of culture to anything like the extent that it is capable of rendering valuable and practical assistance; the art of using a library well, or of getting all the help from books that they are capable of imparting, is more slowly and more seldom acquired than the habit or the love of reading. But we are glad to believe that increasing numbers are coming to depend upon our public library for practical assistance in serious studies; and that while the departments of lighter books are properly sought for purposes of entertainment by great numbers, the result of frequenting the library is, in general, increasingly educative and beneficent. That it may be so more and more, we bespeak the continued assistance and advice of teachers and parents, and all thoughtful persons in the community. A word dropped by a person of known intelligence and character often exerts a valuable directive influence upon the young in their choice of books, and may help to open unimagined literary treasures to their enjoyment and possession.

In the desire to co-operate with the city government in the economical administration of all its departments, the trustees called last year for the smallest sum that seemed to them to be sufficient to meet the expense of carrying the library through the year in the most economical manner. The appropriation was, however, reduced considerably below that point, so that the book committee have been obliged to forbear buying a good many books that would have been of great value; and still we are sorry to report that the appropriation has been slightly overdrawn. — for the first time, we believe, in the history of the library. We desire to spend the city's money with entire prudence, and our successors will doubtless endeavor to confine their expenditures within the amount appropriated to their use; but we submit that the sum of last year was insufficient, even with the \$500 balance on hand (a considerable portion of which, however, was applied to payment for purchases of books near the close of the previous year), and will be entirely inadequate for the coming year, which we begin with a slight deficit.

We must again call your attention to the inadequate accommodations of our library rooms. To be alive, a library must grow; growing, it demands increasing room. That our public library grows continually in usefulness and in the regard of our citizens, we regard as certain. That it has long since outgrown its present quarters, and needs to be more conveniently and adequately housed, appears to us not less certain. We trust that your body may see the wisdom of taking at least some initial action looking to the accomplishment of this long-called-for and highly desirable result. We desire, through you, to commend the interests of the library and its necessities to the careful and generous consideration of the public.

We acknowledge the gift during the past year, to the library, of two books: "Progress and Poverty," from a friend, and "Anniversary of the Settlement of Cambridge," from the city of Cambridge. We are also indebted to his Honor, Mayor Cummings, for two bound volumes of the *Somerville Journal*.

The librarian reports the present number of books in the library to be 9,035. Of this number, 684 were added during the past year. The number used during the year was 67,649; of this number, 731 were used for reference.

The library was open 307 days. The largest number of books given out on any one day was 740. The number of names registered in 1881 was 903.

The treasurer's financial statement for 1881 is as follows : —

Credit balance from 1880,	\$499 22
Appropriation,	1,200 00
Dog licenses,	927 13
Catalogues,	29 72
Fines,	205 10
	<hr/>
	\$2,861 17
	<hr/> <hr/>
Expended for salaries,	\$1,297 85
" " books,	1,272 04
" " express,	39 75
" " printing,	210 50
" " binding,	44 94
" " sundries,	27 75
	<hr/>
	\$2,892 83
	<hr/> <hr/>

Overdrawn, \$31.66.

Respectfully submitted for the trustees,

HENRY H. BARBER,

President.

SOMERVILLE, Jan. 31, 1882.

ANNUAL REPORT
OF THE
OVERSEERS OF THE POOR,
FOR THE
Year ending Dec. 31, 1881.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb 8, 1882.

Report accepted, ordered to be printed in the Annual Report of 1882.
Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 8, 1882.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

SOMERVILLE, Jan. 30, 1882.

To his Honor the Mayor and City Council of Somerville :

GENTLEMEN,—The Board of Overseers of the Poor herewith present their report of receipts and disbursements for the year ending Dec. 31, 1881; we refer you to the accompanying tables numbered 1, 2, and 3, from the secretary and storekeeper, which will show you the various ways in which the funds of this department have been expended. During the past year we have changed our time of giving orders for outside aid from once in each week to once in two weeks; we find that the deserving poor are no losers by the change, while the city is a gainer to the extent of \$1,788.46. There is a steady increase in the demands for the care of the insane, and also from public institutions, and from other towns and cities on account of persons having settlements in our city. We have reason to think that these claims will continue to increase until this city has an almshouse to which we can at least invite these persons. When we notify other cities or towns of cases of this kind, in our limits, a notice like this is received: "Cannot the applicant be removed to our almshouse? If so we will send for them." Generally they don't want to be sent for, and thereafter take care of themselves. We therefore, as a matter of economy, again ask you to give the subject of an almshouse for Somerville your serious attention. We are paying high rates for board in private families for paupers, and are at the mercy of other places for care of our poor. One bill from Marlboro', for aid to two persons for seven months, was \$267; twice the cost to Cambridge if it was their case, with an almshouse.

Our town store seems to have been managed by the keeper, Capt. Lewis, with the usual economy and discretion, as will be

seen by his report. This board, after a careful consideration, have concluded to ask for the same appropriation as last year, \$14,000, and hope to keep within the same.

THOMAS CUNNINGHAM, *Secretary.*

Per order of the Board.

TABLE NO. 1.

Total number of families aided,	260
“ “ persons aided,	784
“ “ orders given from poor rooms,	3,24
“ “ orders for groceries and provisions,	1,392
“ “ “ fuel,	765
“ “ “ boots, shoes, and dry goods,	286
“ “ families chargeable to city,	153
“ “ “ “ other towns and cities,	50
“ “ “ “ State,	57
“ “ “ aided by other towns and cities, and chargeable to us,	48
“ “ persons aided and supported in State, county, and city institutions, chargeable to us,	44
“ “ families registered,	653
Number added during the year,	24

THOS. CUNNINGHAM, *Secretary.*

TABLE NO. 2. — RECEIPTS AND DISBURSEMENTS.

Appropriation,	\$14,000 00
Received from other towns and cities,	1,978 47
	<hr/>
	\$15,978 47
Disbursements : —	
House rents,	\$812 30
Board in private families,	957 87
Groceries, provisions, and orders,	3,317 61
	<hr/>
<i>Amount carried forward,</i>	\$5,087 78

<i>Amount brought forward,</i>	\$5,087 78	
Burials,	208 50	
Boots, shoes, and dry goods,	622 17	
Salaries,	1,400 00	
Fuel,	2,098 83	
Stationery,	39 66	
Miscellaneous,	202 14	
State and city institutions,	4,149 46	
Other towns and cities, support of pau- pers,	2,263 18	
Lodgers,	4 00	
	<hr/>	\$16,075 72
Amount overdrawn,		<hr/>
		\$97 28
		<hr/> <hr/>

THOS. CUNNINGHAM, *Secretary.*

TABLE NO. 3. — STATEMENT OF STORE-KEEPER.

City of Somerville, Jan. 5, 1882, in account with
Ansel Lewis, store-keeper: —

Amount of goods bought in Boston,	\$3,014 65
Amount of goods in store,	262 21
Store-keeper's salary,	300 00
	<hr/>
	\$3,576 89
Jan. 1, 1882: —	
Amount of goods delivered on orders,	\$3,513 69
Amount of goods in store, 1881,	266 54
Paid for cheese and crackers,	115 27
Store-keeper's salary,	
	<hr/>
	\$3,895 50
	<hr/> <hr/>

ANSEL LEWIS, *Store-Keeper.*

FOURTH ANNUAL REPORT
OF THE
BOARD OF HEALTH
OF THE
CITY OF SOMERVILLE,
(WITH THE CITY PHYSICIAN'S REPORT)
FOR THE
YEAR 1881.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 31, 1882.

Referred to the Committee on Printing, with instructions to print the same in the Annual Report for 1881. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 1, 1882.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE BOARD OF HEALTH,
CITY HALL, SOMERVILLE, MASS., Jan. 31, 1882.

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

GENTLEMEN, — The following is our report for the year 1881, and is the fourth annual report of this board.

MEMBERSHIP.

On the first of January, the members of the board were George A. Kimball, City Engineer, chairman; John F. Couch, M. D., City Physician; and John A. Cummings. Jan. 11, John A. Cummings, having become mayor of the city, resigned his membership, and Jan. 25 the mayor and aldermen appointed George C. Skilton a member of the board, to fill the vacancy caused by Mr. Cummings's resignation. March 16, the mayor and aldermen appointed George A. Kimball, City Engineer, a member of the board, for the term ending on the first Monday of February, 1883.

ORGANIZATION.

March 23, the following officers were elected : —

<i>Chairman</i> . . .	GEORGE A. KIMBALL.
<i>Clerk</i>	GEORGE I. VINCENT.
<i>Inspector</i> . . .	WILLIAM H. BRINE, 40 Houghton Street.

NUISANCES.

Nuisances have been abated as shown by the following table, which is arranged by the months when the complaints were received.

NUISANCES ABATED IN THE YEAR 1881.

	*January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cellar damp.....	6	.....	2	.....	4	8	.....	2	4	.....	.....	.....	26
Cesspool defective.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
“ offensive.....	.....	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	3
“ overflowing.....	1	.....	.....	.....	10	1	.....	1	.....	.....	1	.....	14
Connections of waste with drain pipes defective.....	11	4	5	1	6	4	1	1	7	8	5	1	54
Dead dog in cellar.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Drainage defective.....	13	2	2	2	13	4	3	5	4	1	.....	.....	49
“ emptying into cellar..	9	1	1	1	8	3	1	3	.....	3	.....	.....	30
“ emptying on surface..	11	1	5	8	9	4	1	3	6	2	.....	.....	50
Drain-pipe broken and leaking.	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2
“ defective.....	6	2	2	2	.....	3	1	.....	3	5	1	1	26
“ not trapped.....	2	.....	.....	.....	7	1	.....	1	1	.....	.....	.....	12
“ stopped up.....	3	2	.....	.....	.....	1	.....	.....	.....	2	.....	.....	8
Filth in cellar.....	.....	.....	.....	.....	1	3	2	.....	.....	.....	.....	.....	6
“ on premises.....	1	2	.....	.....	1	.....	1	4	3	.....	.....	.....	12
Grease rendered in open kettle,	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Hennery offensive.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	2
Hens kept in cellar.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	1	.....	4
Manure exposed and offensive.	3	2	1	4	3	1	2	2	8	2	.....	.....	28
Offal in cellar.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	3
“ on land.....	.....	2	.....	.....	.....	.....	.....	.....	4	3	.....	.....	9
Offensive materials carted thro' streets.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Offensive odor in and about dwellings.....	2	1	2	.....	1	6	.....	.....	1	.....	.....	.....	13
Opening in drain-pipe in cellar, Slaughter-house offensive.....	.....	.....	.....	.....	1	.....	.....	1	.....	1	.....	.....	3
Slops thrown on surface.....	.....	1	.....	1	.....	.....	2	1	7	3	1	.....	16
Soil pipe not ventilated.....	3	.....	.....	.....	6	.....	.....	.....	.....	1	.....	.....	10
Stable and stable premises filthy.....	1	.....	.....	2	.....	.....	.....	1	3	1	.....	.....	8
Stagnant water in house cellar.	1	3	4	17	2	3	2	.....	1	.....	.....	.....	33
“ “ in stable cellar..	.....	.....	.....	2	1	2	.....	.....	2	1	.....	.....	8
“ “ on surface.....	1	.....	2	4	5	1	4	1	3	1	.....	.....	22
Vault full.....	13	9	9	19	15	3	21	38	58	10	3	1	199
“ leaking.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	3
“ not properly constructed,	1	.....	3	2	3	1	2	.....	1	.....	.....	.....	13
“ offensive.....	20	.....	4	9	7	9	8	19	.....	2	2	.....	80
Wagons washed on sidewalk ..	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Waste-pipe defective.....	1	.....	.....	.....	1	.....	.....	.....	.....	3	.....	1	6
“ leaking.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
“ not trapped.....	68	23	23	27	31	17	11	12	49	17	8	1	287
“ stopped up.....	.....	.....	1	.....	1	1	.....	1	2	.....	.....	.....	6
Water-closet defective.....	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	5
“ insufficiently sup- plied with water,	.....	.....	1	2	1	.....	2	.....	.....	2	.....	.....	8
“ not supplied with water.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3
“ not trapped.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
“ not ventilated....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
“ offensive.....	1	.....	1	2	1	.....	.....	.....	1	1	.....	.....	7
Water-course polluted.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Well water unfit for use.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Wooden wastepipes and drains,	4	.....	2	3	1	.....	.....	2	5	5	.....	.....	22
	197	56	73	117	141	79	64	101	176	77	22	5	1108

* Including nuisances referred to us by the Board of 1880.

Number of nuisances abated, 1,108 ; number referred to Board of 1882, 78 : total, 1,186.

Number of complaints, 554 ; number made without sufficient cause, 6.

Number of houses ordered vacated, 38 ; of which number, 35 have since been put in a proper sanitary condition ; number vacated in compliance with our orders, 3 ; number caused to be vacated by the Chief of Police by our direction, 3.

Number of notices issued through the Police Department and the mails, 692 ; number served by constables, 63.

Number of letters sent, 57.

PRIVIES. — Privy-vaults continue to cause a great many complaints. In thickly settled neighborhoods it is almost impossible to maintain them without creating a nuisance ; and wherever sewers are accessible, we invariably recommend that water-closets be used and privies removed. Where sewers cannot be reached, however, we consider privies a necessity, as the cases are rare where cess-pools will accommodate the drainage from water-closets.

There are few if any properly constructed privy-vaults in the city ; and for the benefit of those who are obliged to have them, we repeat the substance of the recommendations in regard to their construction and care which we made in our first annual report, viz. :

“ Build the vault water-tight, and as nearly air-tight as possible ; provide it with good ventilation ; pour no slops into it, and allow no rain or surface water to flow into it ; clean it out often.

During the year twenty-two privies have been abandoned.

WAVERLY STREET SEWER OUTLET. — The Waverly Street sewer discharges into an open creek within one hundred and sixty feet of two long blocks of dwellings. This creek pursues a winding course until it reaches the culvert built in 1880, under the Mystic River branch of the Boston and Lowell Railroad, and a considerable quantity of the solid matter has lodged upon the flats bordering on the creek. As a partial remedy, in the month of December the Boston Board of Health and this board cut a ditch across the flats above the culvert, in order to give the sewage a more direct channel, and placed a tide gate below the culvert and near the Eastern Railroad, so as to prevent the incoming tide from spreading

the sewage over the flats. These measures, as we said above, were designed to afford only a partial relief. We think that at an early day the sewer should be extended so that its outlet may be at a proper distance from dwellings.

STABLES. — Frequent complaints having been made of offensive stables and exposed manure heaps, we have visited in the past year a large number of both public and private stables. As our population increases and dwelling-houses are necessarily built near together, we feel that our duty demands of us the adoption of more rigid sanitary measures for the abatement of this, a growing evil. Much can be done by the occupants of the stables to preserve cleanliness; in fact, all is within their power if the stable is properly constructed. We find that many stables in which large numbers of horses are kept are totally unfit for the purpose; they having been erected without cellars, and with no provision for either the building or the surface drainage, and the manure being thrown out upon the ground and left entirely uncovered. While we shall endeavor to compel a change in many such stables already erected, we are of the opinion that proper restrictions should be placed upon all who may hereafter apply to the Board of Aldermen for permits to build stables for more than four horses.

Our regulations regarding “stables and the removal of manure” will be found at the end of this report.

ALEWIFE BROOK. — The nuisance occasioned by the condition of this brook has received the attention of the board ever since its organization. We have repeatedly called the attention of the Cambridge authorities to the dangers to which the residents of this city living in that vicinity were exposed, and requested them to abate the nuisance. There being no material change in the condition of the brook, we, on the 25th of January, 1881, sent a communication to the Senate and House of Representatives, in which, after referring to the filthy condition of the brook and its being a probable cause of sickness in that vicinity, we prayed for such legislation as would compel Cambridge, within a reasonable time, to divert its house drainage and its sewage from business establishments from the brook and its tributaries. As a result of that communication, a bill was passed on the 6th of May, 1881, which provided for

the purification of the brook. The bill met the approval of the board. It is true that there were some objectionable features in it; but when we consider that it was only a temporary measure, and that pending the formation of a metropolitan system of sewerage, which must eventually come, our people would be relieved from this nuisance, and our city would receive \$1,000 annually from Cambridge for the use of a portion of our sewers, we think a great mistake was made in not accepting the act. As we have not accepted the means of relief offered by the Legislature and agreed to by Cambridge, we should take the initiative in any new move. We would suggest that a committee of conference composed of members of both branches of the City Council be appointed to confer with a like committee from the Cambridge city government. We believe an understanding could be arrived at that would be satisfactory to the people of both cities.

LICENSES.

The City Clerk has issued licenses to keep swine and goats and to collect grease, in accordance with our recommendations, the same as in former years.

SWINE. — Applications have been received for licenses to keep 222 swine. We have granted licenses for 209, and rejected the applications for the remainder.

GOATS. — We have received applications for licenses to keep 26 goats, and have granted licenses for the entire number.

GREASE. — 12 applications for licenses to collect grease have been received and granted. 7 of the applicants resided in Somerville, 2 in Boston, 2 in Cambridge, and 1 in Medford, and all of the non-residents have been recommended by their respective boards of health.

We have granted recommendations to 10 of our citizens for licenses to collect grease in Cambridge, and have recommended 3 for licenses to collect in Boston.

We have ascertained that the Boston Board of Health has licensed 45 citizens of Somerville to collect grease in the city of Boston during the past year, and that the Board of Health of Cambridge has licensed 11 to collect grease in that city.

ASHES.

The Highway Department has collected ashes, under our supervision, once every month, the same as in preceding years. The collections, hereafter, will be made as follows:—

In Ward One, on the first Wednesday of the month; in Ward Two, on the second Wednesday of the month; in Ward Three, on the third Wednesday of the month; in Ward Four, on the fourth Wednesday of the month.

Ashes and house dirt for removal are required to be placed in barrels on the outer edge of the sidewalk, in the forenoons of the days when the collections are to be made, and must not contain any filth or offal. Four thousand five hundred and fifty-nine loads were collected during the year, at a cost of \$1,185.70.

HOUSE OFFAL.

House offal has been collected by Mr. Christopher Burke, under a three-years' contract, commencing June 26, 1880, for the sum of \$500 per annum.

The contract provides that collections shall be made three times per week in the months of May, June, July, August, and September; twice each week in the months of April, October, and November; and once each week in the months of December, January, February, and March.

REMOVAL OF NIGHT-SOIL.

Night-soil has been removed during the year by Messrs. Russell and Fitch.

April 24, their contract expired, and a new one was made for one year, providing for the following charges: For each load or part of a load of eighty cubic feet, removed in the months of April, May, June, July, August, September, October, and November, \$3.50; and for the same in the months of December, January, February, and March, \$2.50.

Four hundred and ninety-one loads of night soil were removed during the year.

Orders should be left at the police station, Bow Street, or at the grocery store at the corner of Franklin and Perkins Streets.

MYSTIC WATER.

No complaints of the condition of the Mystic water have been received during the year.

We have, since the 1st of January, 1882, examined several of the tributaries of Mystic Lake, and some of the objectionable establishments situated on their banks.

Russell Brook, a stream in the town of Woburn, was found to be free from foul matter ; a decided improvement over its condition in 1879. This brook was formerly used by the tanners as a receptacle for sewage ; but the connection of the drains from the tanneries with the Mystic Valley sewer, which is located near the brook, has restored it to its original purity.

Another tributary in Woburn, sometimes called Town Meadow Brook, on which is located Dow & Co.'s tannery, was found to be foul, evidently containing house drainage. This brook passes through a thickly settled portion of Woburn, and receives the drainage from dwellings, stables, etc. At Dow & Co.'s tannery the drainage is pumped into pits on the banks of the brook, with the expectation that it will then soak into the ground.

Still another tributary, from Cummingsville, is foul, but not so bad as in 1880. The method adopted by John Cummings & Co. and Bishop & Co., of disposing of their sewage, is not satisfactory ; and we are of the opinion that during a rain-storm or freshet, a large quantity of the filth must be washed into the brook. At Messrs. Cummings & Co.'s tannery, we found a drain discharging foul matter directly into the brook.

The selection, for a source of water supply, of a lake whose water-shed is in many parts thickly settled, and which is occupied by a large number of manufactories and other establishments where objectionable classes of business are conducted, was unfortunate.

We are of the opinion that the following measures should be carried out in order to make Mystic Lake a proper source of water supply :—

Divert all sewage matter from the lake and its tributaries ; provide a proper system of sewerage for the towns of Winchester, Woburn, and Stoneham.

Remove the filth and decayed vegetable matter from the lake and its tributaries.

Improve the shores of the lake and ponds, and take such measures as may be necessary to prevent the growth of vegetable matter.

SEWERS.

During the year a sewer has been laid in Belmont Street, enabling the abutters to abate nuisances caused by the sewage flowing into the street gutters ; sewers have also been laid in Winslow Avenue, Villa Avenue, and Wheatland Street, by means of which, nuisances caused by overflowing cesspools and drainage emptying on the surface of the ground have been abated. There are several other localities where similar nuisances exist because it is impracticable to abate them without the aid of sewers, the soil being so retentive that it will not absorb the sewage.

The following is a list of streets where sewers are needed to give the abutters an opportunity to abate nuisances caused by their own sewage : —

Alston Street, Appleton Street near Lowell Street, Ashland Street, Bond Street, Brastow Avenue, Cherry Street, Chester Street, Ward Three, Clyde Street, Fairlee Street, Fiske Avenue, Hinckley Street, Jacques Street, Murdock Street, Nevada Street, Temple Street, Tower Court, Winthrop Avenue, Wyatt Street.

DEATHS.

In compliance with law, we have approved 459 certificates of deaths during the year, and 33 certificates of still births.

We present the following table of mortality in Somerville in 1881 ; also a table of mortality for the year in seventeen Massachusetts cities and towns.

MORTALITY IN SOMERVILLE IN 1881.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Zymotic Diseases.													
MIASMATIC.													
Measles		1	1										2
Scarlet Fever					1								1
Diphtheria	7	4	7	2	3	3	2	3	2	6	2	3	44
Croup		1	1	3						1		1	7
Typhoid Fever		1	2						1	2	1	1	8
Erysipelas		1	2			1				1			5
Dysentery								4		2			7
Diarrhœa		1					4	1	2				8
Cholera Infantum			1			1	7	18	8	1			36
Cholera Morbus								1					1
Cerebro-Spinal Meningitis						1						1	2
Puerperal Convulsions		1	1										2
Septicæmia			1									1	2
Rheumatism						2							2
Whooping Cough			1						2	1	1	3	8
DIETIC.													
Intemperance		1											1
Purpura Hemorrhagica										1			1
Constitutional Diseases.													
DIATHETIC.													
Leucocythæmia					1								1
Dropsy										1			1
Cancer	1	1	1		3	1		1		1			9
Cancer of Breast							1				1		2
Cancer of Rectum and Bladder										1			1
Cancer of Stomach									1	2			3
Mortification	1					1							2
TUBERCULAR.													
Phtthis Pulmonalis	4	1	9	8	2	4	6	4	3	4	5	6	56
Tubercular Meningitis	1		1	1	1		1		1	1			8
Tabes Mesenterica											1		1
Marasmus				1		1	1	2			2		7
Scrofula						1							1
Potts' Spinal Disease	1												1
Local Diseases.													
NERVOUS SYSTEM.													
Apoplexy		1	2	1			1	1	1		1		8
Paralysis	1	1	1	3		1	1	1	1	2			12
Insanity	1			1			1	1	1	2		1	8
Brain Diseases	2							1			1		4
Cerebral Meningitis		1	2		3		1	1	2	2	1	1	14
Meningitis				1									1
Convulsions		1		3	1		2		3			2	12
Laryngismus										1			1
ORGANS OF CIRCULATION.													
Heart Diseases	2	1	3	2	2	5	1	1	1	2	2		22
Angina Pectoris								1					1
RESPIRATORY ORGANS.													
Pneumonia	6	6	5	6	2	3	3	2		6	7	10	56
Bronchitis	4					1				3			8
Pleurisy											1		1
Imperfect Respiration							1						1
Lung Diseases			1				1						2
Asthma										1			1

MORTALITY IN SOMERVILLE IN 1881. — *Continued.*

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
DIGESTIVE ORGANS.													
Gastritis.....										1			1
Enteritis.....										2		1	3
Peritonitis.....	1	1	1			2	1		1		1		8
Hernia.....				1					1			1	2
Jaundice.....	1												2
Liver Diseases.....								1					1
Inanition.....								1	1	2	1		5
Ulcer of stomach.....								1					1
URINARY ORGANS.													
Nephritis.....									1				1
Bright's Disease.....	1	2		1	2	1	1					1	9
Diabetes.....							1					1	2
Disease of Kidneys.....								1					1
Hemorrhage of Kidney.....									1				1
GENERATIVE ORGANS.													
Uterine.....					1								1
Developmental Diseases.													
OF CHILDREN.													
Premature Birth and Infantile Debility.....				1	1	1	1	1		2			7
OF OLD PEOPLE.													
Old Age.....	4	2		1		1				1	1	1	11
Diseases of Nutrition.													
General Debility.....		1			1						1	1	4
Exhaustion.....	2	1					1						4
Violent Deaths.													
Fracture of Skull.....										1			1
Railroad.....							1	2					3
Drowning.....							1						1
Accidental Hanging.....												1	1
SUICIDE.....					1							1	2
UNKNOWN.....						1	1			2	1		5
Total.....	40	31	43	36	25	32	42	50	34	55	32	38	459
Still-born.....	2	1	4	3	1	4	2	4	5	2	3	2	33

Population.....26,359

Death rate per thousand.....17.4

MORTALITY IN SEVENTEEN MASSACHUSETTS CITIES AND TOWNS IN 1881.

	Population.	Deaths.	Rate per Thousand.
Boston	397,628	9,016	22.7
Brockton.....	14,500	313	21.6
Cambridge	54,500	1,136	20.8
Chelsea	23,000	443	19.3
Fall River.....	49,000	1,290	26.3
Gloucester	20,000	388	19.4
Haverhill.....	19,000	303	16.0
Lynn.....	40,000	763	19.1
Medford.....	7,526	111	14.7
Newburyport	13,800	282	20.4
Quincy.....	11,000	171	15.5
Salem	28,000	605	21.6
Somerville	26,359	459	17.4
Springfield	35,000	625	17.9
Waltham	12,000	200	16.7
Woburn.....	11,452	185	16.2
Worcester.....	62,000	1,159	18.7

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

SCARLET FEVER. — We are fortunately able to present a more gratifying statement relative to this disease this year, than we were last year. We have had but 25 cases reported to the board during the year, only one of which proved fatal. These cases were reported as occurring in 20 houses and in 22 families. Two cases were reported from a house in which there had not been a case since October, 1879, an interval of two years. Upon investigation it was found that a family had recently moved into the

house from Charlestown, and in the house from which they came there had been recently a case of scarlet fever. Less than a fortnight after their removal to Somerville, a child in the family living on the lower floor was taken sick with the disease; and soon after, one of the children in the other family was taken sick. Had these people, before leaving Charlestown, taken the precaution to thoroughly fumigate their furniture and clothing, it is not likely that they would have brought the germs of the disease with them to Somerville. It is only by continually keeping before our minds the fact of the contagiousness of this disease that we can hope to keep it within bounds.

DIPHTHERIA. — In the consideration of this disease as it prevailed during the past year, we find the prediction made by us in our last report verified. At that time, referring to the belief of the medical profession in the relations existing between the poor sanitary condition of houses and prevalence of diphtheria, we said, “We cannot help feeling that during the coming year there will be about the same number of cases reported that there were during the past year.” In 1880, there were 108 cases and 19 deaths; during the year 1881, there were 155 cases, of which 45 have proved fatal. As in previous years, we continued the practice of making a careful examination of every house and its surroundings in which a case of this disease occurred. A very small percentage of the houses examined were in good sanitary condition; so that while we are not prepared to say that the insanitary conditions of a man’s premises are the cause of the disease as it appears in this city, the conviction is forced upon us that they play the part of very prominent factors in its production. A thorough inspection of every house in the city would probably throw considerable light on this part of the subject. If it could be shown that the disease occurred only in houses whose sanitary conditions were bad, the remedy would be apparent; but we have not advanced in our study of this disease sufficiently to be able to take this ground. At present there are several objections to our taking this position. In the first place, we have not made an examination of a sufficiently large number of houses on which to base a reliable calculation; and further, in our examination of houses in which there were cases of typhoid and

scarlet fevers, we found many whose sanitary condition was bad, and yet there had not at any time, to our knowledge, been a case of diphtheria in them.

Again, cases are occasionally reported from houses in which everything is in good condition. Possibly a careful study of such cases would show that the disease had been contracted elsewhere. The weight of evidence is at present in favor of the theory that insanitary conditions of our dwellings are the principal causes of the disease, and that its spread is favored by its contagiousness. Our duty, then, is to pay particular attention to the state of our houses. The drain and waste pipes should be carefully examined for leaks, and if any be found, they should be at once attended to. If the connection of drain and waste pipes be loose, they should be firmly bound together. The traps should be carefully examined, and any and every possible source of entrance of sewer gas into our houses should be properly guarded. By attention to these details, we shall have removed one of the supposed causes of the disease. An examination of our books shows that in the majority of instances, more than one case was reported from the same family. While we may be in doubt as to the origin of the first case, there can be no doubt of the contagiousness of the disease; and now that it has obtained a foothold in our city, it would seem that nothing but extreme measures will result in its removal. While we continue as formerly to fumigate every house in which fatal cases occur, and at the request of the family, any house in which the disease has appeared; while our physicians are using their influence to induce the families to *isolate* the sick ones; while we supplement their efforts by teaching the people the dangers attending communication between the sick and the healthy members of the family; and to still further lessen the possibility of its extension, we forbid the attendance at school for a short period of any member of the family in which the disease occurred, — it continues on its course apparently unchecked. A disbelief in its contagiousness, we believe, is the principal cause of its extension. We know of a case where three children were sick with the disease in one family; another member of the family had died suddenly the day before our visit, and while we were in the house, a neighbor

called in to view the body and offer sympathy to the family. She was warned by us of the danger to which she was exposing *her own* children by entering this house, but she replied that she had no fear of it. Within a week she had two cases in her own family.

The custom indulged in by too many, of visiting houses where there are cases of this disease, should be discontinued. Most of the people who indulge in this practice do no good, but much harm. They visit the house, examine the patient, and often stay in the sick-room from half an hour to an hour and a half before departing to their own homes, carrying with them in their clothing the germs of the disease. If their services were needed, there would be some excuse for them; but we have found on more than one occasion, that when the family were so situated that help from their neighbors would be acceptable, it was not to be had.

Herewith is presented the inspector's report of the sanitary condition of houses visited by diphtheria in 1881.

TYPHOID FEVER. — This disease prevailed to an unusual extent in our city during the past year. Seventy-one cases were reported, and these occurred in fifty-one families. Although cases were reported from almost all parts of the city, the greatest number were from Columbia, Norfolk, and Tremont Streets, and Webster Avenue. It was impossible in many of these cases to find any connection between them and other cases of the same disease. We found frequently, during our investigation, instances where two or more members of the same family were taken sick at the same time; in other cases there would be intervals of from one to four weeks. Medical writers are not agreed on the question of its contagiousness; but from our study of the disease as it prevailed during the year, we are impressed with the feeling that it is contagious. A careful examination was made of the houses in which the disease occurred, and there was found to be much room for improvement in the sanitary condition of nearly all of them. In the district already spoken of, almost all the families used the Cambridge water supply, while a very few used the Mystic. None of them to our knowledge used well water. The filthy condition of many of the houses and surroundings, and the absence of any proof of exposure to the disease in many instances, make it appear probable to us that the disease may be caused sometimes by exposure to emanations from foul

privies or cesspools, broken drains, untrapped sinks, etc. The difficulty in the way of accepting the germ theory as an explanation for all cases may be shown by reference to one family. In this family there were three sick with it: one an adult, and two boys aged respectively twelve and eight years. The two boys were taken sick at the same time, and in two days after, the adult was taken sick. The adult, in the pursuit of his business, went from house to house in the city, and sometimes visited houses in other cities. It is quite possible that in his travels he used a privy attached to a house in which there had been a case of the disease, and in that way exposed himself to the germs of the disease which are contained in the discharges from the bowels of the patient. This reasoning would hardly apply to the cases of the children, although it is possible that they too exposed themselves in the same way, by going into their neighbors' yards and using their privies. To us it seems more likely that the cause of the disease was in or about the house in which they lived.

In our last report, we offered to provide material for use in the sick-room for the purpose of disinfecting. During the year we made a beginning in this direction, by furnishing to about half the cases a solution of sulphate of iron (copperas) in water, of the strength of one pound to one gallon of water. After the patients' bowels were moved, enough of this solution was poured on the dejections to cover them, after which they were thrown in the privy or water-closet. Were cases reported more promptly to us, we might with some reason hope to prevent its extension. Regarding the unusual prevalence of the disease this year, it might be stated that it prevailed to a much greater extent throughout the State than it has for some years, and it would seem that there was something more than a local cause for its prevalence.

By the two following tables will be seen: first, the number of cases of scarlet fever, diphtheria, and typhoid fever reported during the year, with the number of these cases that have up to this date (Jan 31) resulted fatally, and the percentage of deaths; second, the number of deaths in our city from scarlet fever, diphtheria, and typhoid fever in each of the five years ending with 1881. We also present in tabulated form the inspector's report of the sanitary condition of premises where diphtheria has been found: —

SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED IN 1881.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases reported.	Proved fatal.	Percentage of deaths.	Cases reported.	Proved fatal.	Percentage of deaths.	Cases reported.	Proved fatal.	Percentage of deaths.
January	4	.....	.....	19	10	53	4	1	25
February	5	.....	.....	13	2	15	1		
March	2	.....	.....	14	6	43	3	2	67
April	6	1	17	15	2	13			
May	2	.....	.....	15	4	27	3		
June .....	.....	.....	.....	11	2	18	1		
July .....	.....	.....	.....	9	2	22			
August	1	.....	.....	13	2	15	5	1	20
September	1	.....	.....	3	2	67	15		
October	1	.....	.....	21	6	29	16	3	19
November	2	.....	.....	8	2	25	17		
December	1	.....	.....	14	5	36	6	1	17
Total	25	1	4	155	45	29	71	8	11

DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN 1877, 1878, 1879, 1880, AND 1881.

MONTHS.	SCARLET FEVER.					DIPHTHERIA.					TYPHOID FEVER.				
	1877.	1878.	1879.	1880.	1881.	1877.	1878.	1879.	1880.	1881.	1877.	1878.	1879.	1880.	1881.
January	4	.....	4	2	.....	.....	4	6	7	7	2				
February .....	.....	.....	1	1	.....	4	4	4	.....	4	.....	.....	.....	.....	1
March	1	.....	1	1	.....	9	5	.....	.....	7	.....	.....	.....	.....	2
April .....	.....	1	2	.....	.....	7	1	1	1	2	.....	.....	.....	.....
May .....	.....	.....	.....	.....	1	8	.....	.....	.....	3	.....	.....	1	.....
June .....	.....	.....	1	.....	.....	6	1	1	.....	3	.....	.....	.....	1	
July	1	.....	2	.....	.....	1	2	.....	.....	2	1	.....	.....	1	
August	2	.....	.....	.....	.....	3	1	4	.....	3	.....	2	.....	1	
September .....	.....	.....	.....	2	.....	4	1	2	.....	2	.....	1	1	.....	1
October .....	.....	3	.....	.....	.....	4	2	5	2	6	1	1	.....	2	2
November	1	4	3	.....	.....	5	1	2	1	2	.....	.....	1	1	1
December	1	7	2	.....	.....	8	5	4	8	3	2	1	.....	1	1
Totals	10	15	16	6	1	59	27	29	19	44	6	5	3	7	8

DIPHTHERIA IN 1881.—INSPECTOR'S REPORT.

No. of Family.	Nationality.	Occupation of Head of Family.	No. of Patient.	Sex of Patient.	Age of Patient.	Date of Sickness.	Result.	District.	Soil.	Locality.	House Drainage.	Condition of Cellar.	Privy.	Remarks.
1	Scotch.....	Brass finisher.....	1	Male.....	2	January.....		1	Sand.....	Fair.....	Drain pipe in cellar defective.....	Damp.....		
2	German.....	Upholsterer.....	2	Female.....	36	".....		4	".....	".....	Soil pipe not ventilated.....			
3	American.....	Book agent.....	3	Male.....	6	".....		1	Clayey Gravel.....	".....	Waste pipe not trapped. Drain pipe near w. c. defective..	Damp.....		
4	".....	Plumber.....	4	Female.....	9	".....		2	".....	Good.....	Satisfactory.....			
5	".....	Carpenter.....	5	Male.....	3½	".....	Fatal..	1	".....	".....	Low.....	Waste pipe not trapped; into cesspool near house.....	Basement rooms.....	4 feet from house; vault full
			6	Female.....	6	".....	".....							
6	".....	Engineer.....	7	Male.....	28	".....		2	".....	Good.....	".....	".....	10 ".....	".....
7	".....	Fish.....	8	".....	5	".....		3	Clay.....	".....	Waste pipe not trapped; drainage out on surface.....	Damp.....	10 ".....	".....
8	Irish.....	Laborer.....	9	".....	5	".....		8	Clayey Gravel.....	Fair.....	Drainage out on surface.....	".....	6 ".....	".....
			10	Female.....	5 mos.	".....	Fatal..							
9	".....	Printer.....	11	Male.....	2	".....		3	Sand.....	Low.....	Waste pipe not trapped; drainage defective.....	".....	26 ".....	".....
10	American.....	Laborer.....	12	".....	22	".....		2	Clayey Gravel.....	".....	Waste pipe not trapped.....	".....	20 ".....	".....
			13	Female.....	5	".....								
11	".....	".....	14	Male.....	1½	".....	Fatal..	1	Clay.....	".....	".....	Not any.....	40 feet from house; vault filthy...	Yard filthy.
12	".....	Fish business.....	15	".....	3	".....	".....	3	".....	Good.....	Waste pipe not trapped; drainage out on surface.....	Damp.....	8 ".....	".....
			16	Female.....	6	February.....								
13	Irish.....	Laborer.....	17	".....	7	January.....		8	Clayey Gravel.....	Fair.....	Waste pipe not trapped.....	".....	10 feet from house; vault full.	
14	American.....	Police officer.....	18	Male.....	8½	".....	Fatal..	4	".....	Low.....	".....	".....	13 ".....	".....
			19	".....	4	".....								
15	".....	Grocery business.....	20	".....	7	".....	Fatal..	2	".....	Good.....	Waste pipe not trapped; defect in drain pipe.....	Damp.....	Water-closet in cellar defective.	
16	Irish.....	Laborer.....	21	Female.....	8	".....	".....	7	".....	".....	W. p. not trapped; connection of w. and d. p. defective..	Damp and filthy.....	25 feet from house; vault full....	Yard filthy.
17	American.....	".....	22	Male.....	5	".....	".....	2	".....	".....	Waste pipe not trapped.....	".....	Water-closet in cellar.	
18	Irish.....	Printer.....	23	Female.....	1½	February.....		5	Clay.....	".....	Into cesspool two feet from house.....	Damp.....		
19	American.....	Upholsterer.....	24	".....	4	".....	Fatal..	3	".....	Low.....	Waste pipe not trapped; drain pipe defective.....	".....	Water-closet in cellar.	
20	".....	Salesman.....	25	Male.....	2½	".....	".....	8	Clayey Gravel.....	Fair.....	Waste pipe not trapped; drainage out on surface.....	".....	20 feet from house; vault full....	Yard filthy.
21	Irish.....	Servant.....	26	Female.....	22	".....	".....	8	".....	Good.....	Soil pipe not ventilated.....	".....		
22	American.....	Architect.....	27	".....	18	".....	".....	2	".....	".....	".....	".....		
23	Irish.....	Laborer.....	28	".....	6	".....	Fatal..	1	Clay.....	Low.....	Waste pipe not trapped.....	Not any.....	8 feet from house; vault full.....	
24	American.....	Widow.....	29	".....	7	".....	".....	3	".....	".....	W. p. not trapped; connection of w. and d. p. defective..	".....	25 ".....	".....
			30	Male.....	8	".....	".....							
25	".....	Laborer.....	31	Female.....	22	".....	".....	2	Clayey Gravel.....	".....	Waste pipe not trapped.....	Damp.....		3 stables within 5 feet of house.
26	".....	School teacher.....	32	Male.....	2	".....	".....	7	".....	Good.....	Insufficient supply of water in water-closet.	".....		
27	".....	Glass worker.....	33	".....	49	".....	".....	5	".....	".....	".....	".....		
28	Irish.....	Brush maker.....	34	".....	4	".....	".....	3	".....	Fair.....	Waste pipe not trapped.....	Damp.....	6 feet from house; vault full.	
29	".....	Laborer.....	35	Female.....	7	March.....	Fatal..	1	Clay.....	Low and damp..	".....	Not any.....	2 ".....	Stagnant water near house.
			36	Male.....	2	".....	".....							
30	".....	".....	37	".....	1½	".....	Fatal..	6	".....	Low and damp..	No drainage facilities.....	".....	Adjoining house; vault full.....	Stagnant water near house.
			38	Female.....	4½	".....	".....							
31	American.....	Salesman.....	39	".....	11	".....	".....	7	Clayey Gravel.....	Fair.....	Waste pipe not trapped.....	".....	5 feet from house; ".....	
32	".....	Blacksmith.....	40	".....	6	".....	".....	2	".....	Good.....	Waste pipe not trapped; drainage on surface.....	".....	4 "..... vault full.	
33	".....	Salesman.....	41	".....	3	".....	".....	6	".....	Fair.....	Waste pipe not trapped.....	".....	8 ".....	
34	".....	Tailor.....	42	Male.....	4	".....	Fatal..	5	".....	".....	W. p. not trapped; connection of w. and d. p. defective..	".....	Water-closet in bath room.	
35	".....	Machinist.....	43	".....	5	".....	".....	4	Sand.....	Good.....	Waste pipe not trapped.....	".....	Adjoining house.	
			44	Female.....	27	April.....								
36	Irish.....	Painter.....	45	".....	2	March.....	Fatal..	4	".....	Low.....	Waste pipe not trapped; drainage flowing under house..	Not any.....	12 feet from house; offensive.	
37	American.....	Engineer.....	46	".....	19	".....	".....	8	Clayey Gravel.....	Fair.....	W. p. not trapped; connection of w. and d. p. defective..	".....	10 ".....	
38	Irish.....	Laborer.....	47	Male.....	1	".....	Fatal..	1	".....	".....	Into cesspool ten feet from house.....	".....	Water-closet in bath room.....	Connection of soil and drain pipe defective.
39	American.....	School master.....	48	Female.....	23	".....	".....	7	".....	Good.....	Waste pipe not trapped.....	".....	Water-closet in b. room; offensive.	
40	German.....	Teamster.....	49	".....	10	April.....	".....	3	Sand.....	Low.....	W. p. not trapped; connection of w. and d. p. defective..	Damp.....		Stagnant water; 8 feet from house.
41	Irish.....	Laborer.....	50	Male.....	1	".....	Fatal..	1	Clay.....	".....	No drainage facilities.....	Not any.....	6 feet from house; vault full.	
42	American.....	Conductor.....	51	Female.....	8	".....	".....	1	Clayey Gravel.....	Fair.....	Waste pipe not trapped.....	".....	10 ".....	Stagnant water near house.
			52	Male.....	6	".....	".....							

No. of Family.	Nationality.	Occupation of Head of Family.	No. of Patient.	Sex of Patient.	Age of Patient.	Date of Sickness.	Result.	District.	Soil.	Locality.	House Drainage.	Condition of Cellar.	Privy.	Remarks.
43	English	Carpenter	53	Male	13	April		5	Clayey Gravel	Fair	Waste pipe not trapped; drain pipe defective	Basement rooms	Water-closet in cellar; offensive.	
			54	Female	28	"								
			55	Male	6	"								
44	American	Widow	56	Female	40	"		5	Sand	"	Into cesspool 4 feet from house.	Damp		
45	"	Butcher	57	Male	14	"		4	Clayey Gravel	"	Waste pipe not trapped; out on surface	Adjoining house; offensive.		
46	English	Cigar manufacturer	58	"	11	"		5	"	Good	"		Water-closet in cellar; offensive.	
47	Irish	Laborer	59	Female	6	"		4	Sand	Fair	Waste p. not trapped; into cesspool 2 feet from house		15 feet from house; vault full	Cow shed and manure heap 8 ft. from house.
48	American	Salesman	60	"	10	"		7	Clayey Gravel	Good	Drain pipe not trapped.			
			61	"	4	"								
49	"	Stock broker	62	"	3	"		5	Clay	"	Soil pipe not ventilated.			
50	"	Milkman	63	"	7½	May	Fatal	8	Clayey Gravel	Fair	Waste pipe not trapped.	Damp		
51	"	Carrier	64	"	8½	"	Fatal	10	"	"	Waste p. not trapped; into cesspool 10 feet from house	"	8 feet from house	Wooden box for waste and d. p. defective.
			65	Male	7	"	Fatal							
			66	Female	35	"								
52	"	None	67	"	34	"		3	Sand	Low	Drain pipe defective.	Basement rooms	Water-closet offensive.	
53	"	Widow	68	Male	16	"		7	Clayey Gravel	Good	Soil pipe not ventilated.	Damp		Third time this patient had diphtheria.
54	"	Apothecary	69	"	2	"	Fatal	5	"	"	W. p. not trapped; connection of w. and d. p. defective.	"	8 feet from house; vault full.	
55	"	Telegrapher	70	Female	8	"		3	"	"	Waste pipe not trapped; drain pipe defective	Basement rooms	Water-closet in cellar; offensive	Entire drainage defective.
			71	"	26	"								
			72	Male	1	"	Fatal							
56	"	Printer	73	Female	10	"		5	Clay	"	Waste pipe not trapped; soil pipe not ventilated.			
57	"	Machinist	74	"	10	"		7	Clayey Gravel	"	Waste pipe not trapped.	Damp	Water closet in cellar; offensive.	
58	"	Salesman	75	"	29	"		7	"	"	Soil pipe not ventilated.		Water-closet in b. room; offensive.	
59	Nova Scotia	Clerk	76	Male	4	"		7	"	"	Drain pipe in cellar defective.			
60	American	Salesman	77	"	2	"		6	"	Fair	Soil pipe not ventilated.			
61	"	Sea captain	78	"	13	"		7	"	Good	Waste pipe not trapped.	Damp	Water-closet in bath room.	
62	"	Minister	79	Female	12	June		8	"	"	Drain pipe defective; into cesspool 12 feet from house	"	Water-closet in b. room; offensive.	
63	"	Milkman	80	"	5	"		7	"	"	Drain and waste pipe not trapped.	Damp and offensive	Adjoining house; offensive.	
64	Irish	Laborer	81	Male	4	"	Fatal	1	Clay	Low	Waste pipe not trapped.	Damp	15 feet from house.	
65	American	Meat pedlar	82	Female	4	"		8	Clayey Gravel	Fair	"		20 feet from house.	
			83	Male	6	"								
66	"	Jeweller	84	Female	4	"		7	"	Good	Waste pipe not trapped; drain pipe defective	Damp		
67	"	Dentist	85	Male	6½	"	Fatal	2	"	"	W. p. not trapped; connection of w. and d. p. defective.	"		Drainage out on surface; 45 feet from house.
68	"	Wood & coal dealer	86	Female	7	"		1	"	"	"		Defect in d. p. near water-closet	Stagnant water adjoining house.
69	"	Musician	87	Male	7	"		2	"	"	Defect in drain pipe near water-closet		Water-closet in b. room; offensive.	
70	"	Trader	88	"	6	"		2	"	"	Insufficient supply of water in water-closet.			
71	Nova Scotia	Carpenter	89	Female	1	"		2	"	"	Waste pipe not trapped.		15 feet from house; vault full.	[sickness.]
72	American	Laborer	90	"	4	July		3	Sand	Low	"			Drainage put in good condition just before
73	Irish	"	91	Male	3	"	Fatal	1	Clay	"	Waste pipe not trapped.	Basement rooms.		
74	American	Clerk	92	Female	9	"		7	"	Good	Waste p. not trapped; into cesspool 4 feet from house.			
75	"	Laborer	93	"	7	"		1	"	Fair	W. p. not trapped; connection of w. and d. p. defective.	Damp	Water-closet in cellar; defective	Entire drainage defective.
			94	"	8	"								
76	Irish	Teamster	95	"	6	"		1	"	"	"	Damp	Water-closet in cellar; defective	Entire drainage defective
77	American	Conductor	96	Male	4	"	Fatal	1	"	"	Soil pipe not ventilated.			
78	"	Bookkeeper	97	"	5	"		3	Clay	"	Drain pipe not trapped			Child taken sick away from home.
79	"	Police officer	98	"	12	August		2	Clayey Gravel	"	Waste pipe not trapped		15 feet from house.	
80	Irish	Machinist	99	"	2	"	Fatal	1	"	"	Waste p. not trapped; into cesspool 4 feet from house		10 feet from house; offensive.	
81	American	"	100	"	7	"		1	"	"	W. p. not trapped; connection of w. and d. p. defective.	Damp	Water-closet in cellar; offensive	Entire drainage defective.
			101	"	5	"								
			102	"	2	"								
82	"	Laborer	103	Female	22	"		1	"	"	W. p. not trapped; connection of w. and d. p. defective.	Damp	Water-closet in cellar; offensive	Entire drainage defective.
83	"	Manuf. of extracts	104	Male	3	"	Fatal	1	"	"	"	"	"	"

No. of Family.	Nationality.	Occupation of Head of Family.	No. of Patient.	Sex of Patient.	Age of Patient.	Date of Sickness.	Result.	District.	Soil.	Locality.	House Drainage.	Condition of Cellar.	Privy.	Remarks.
84	American	Laborer	105	Male	19	August		1	Clayey Gravel	Fair	W. p. not trapped; connection of w. and d. p. defective	Damp	Offensive	Entire drainage defective.
			106	"	4	"			"	"	"	"	"	
85	"	Stable keeper	107	"	3	"	Fatal	7	"	Good	Connection of soil and drain pipe defective	"	10 feet from house; vault full.	
86	Irish	Laborer	108	"	6	"		1	"	"	W. p. not trapped; connection of w. and d. p. defective	"	"	
			109	"	3	"			"	"	"	"	"	
87	"	"	110	"	6	September	Fatal	1	Sand	"	Waste pipe not trapped; drainage out on surface	"	8 " " "	
88	"	"	111	Female	7	"		1	"	"	W. p. not trapped; connection of w. and d. p. defective	"	Vault full.	
89	"	"	112	Male	2	"	Fatal	1	Clay	Low	" " " " " " " "	Not any	" "	
90	"	"	113	"	2	October	"	1	"	"	" " " " " " " "	Damp	" "	
			114	Female	6	"			"	"	"	"	"	
91	"	"	115	Male	5	"	Fatal	6	Clayey Gravel	Fair	Drain pipe defective	Basement rooms	10 feet from house; vault full.	
			116	"	3	"			"	"	"	"	"	
			117	Female	9	"			"	"	"	"	"	
			118	Male	7	"			"	"	"	"	"	
			119	Female	12	"			"	"	"	"	"	
92	American	Wood and coal	120	"	4	"		3	Clayey Gravel	Good	Defect in drain pipe in cellar	"	Vault offensive.	
93	Irish	Laborer	121	Male	7½	"		1	"	Low	W. p. not trapped; connection of w. and d. p. defective	Damp	10 feet from house.	
94	"	"	122	"	3	"		1	Clay	Fair	Waste pipe not trapped	"	Water-closet in cellar; defective.	
95	American	Painter	123	"	1½	"	Fatal	1	"	Low	" " " "	"	"	Taken sick away from home.
96	"	Salesman	124	"	21	October	"	1	Clayey Gravel	Good	" " " "	"	"	
97	Irish	Laborer	125	"	6	"		4	Clay	Low	W. p. not trapped; connection of w. and d. p. defective	"	"	
98	"	"	126	Female	6	"	Fatal	4	Sand	"	Entire drainage defective	Damp	"	
			127	Male	2	November	"		"	"	"	"	"	
99	Nova Scotia	Harness maker	128	Female	2	October	"	4	Clayey Gravel	Fair	Waste pipe not trapped; drain pipe defective	Not any	Adjoining house; offensive.	
			129	"	6½	"			"	"	"	"	"	
100	American	Carpenter	130	Male	6	"		2	Clayey Gravel	"	Drainage not ventilated.	"	"	
101	Irish	Blacksmith	131	Female	7	"		4	Sand	Low	Waste pipe not trapped	Opening in d. p. in cellar	10 feet from house.	
			132	"	13½	"			"	"	"	"	"	
			133	Male	1	"			"	"	"	"	"	
102	Irish	Laborer	134	Female	1½	November	Fatal	8	Clayey Gravel	Low	No drainage facilities.	"	"	
103	American	Clerk	135	Male	4	"		7	"	Good	Soil pipe not ventilated.	"	"	
104	Irish	Laborer	136	Female	4	"		4	"	Low	W. p. not trapped; connection of w. and d. p. defective	Damp	20 feet from house; vaults full.	
105	"	Grocer	137	Male	3	"		1	"	Fair	Waste pipe not trapped	"	10 " "	
106	American	Provisions	138	Female	6	"		2	"	"	" " " "	"	5 feet from house; vault full.	
107	"	Salesman	139	"	6	"		9	Sand	Good	" " " "	"	Water closet in cellar.	
108	"	Grocer	140	Male	7	"		3	Clay	Low	" " " "	"	"	
109	"	Printer	141	Female	4½	December	Fatal	3	"	"	W. p. leaking; connection of w. and d. p. defective	Damp	" "	
110	Nova Scotia	Carpenter	142	"	8	"		3	"	"	Drainage not vented.	"	"	
111	American	Salesman	143	"	10	"		2	Clayey Gravel	Good	Waste pipe not trapped; drain pipe defective	Basement room	Water-closet in b. room; offensive.	
112	Irish	Laborer	144	"	9	"		4	"	"	Into cesspool adjoining house	Damp	"	Offal and slops thrown in yard.
			145	Male	10	"			"	"	"	"	"	
			146	Female	8	"			"	"	"	"	"	
			147	Male	6	"			"	"	"	"	"	
			148	Female	4	"			"	"	"	"	"	
113	American	Restaurant	149	Male	4	"		2	Clayey Gravel	Fair	Waste pipe not trapped	Damp	10 feet from house; vault full.	
114	Irish	Laborer	150	Female	13	"		3	"	"	W. p. not trapped; connection of w. and d. p. defective	"	30 " "	
115	"	"	151	Male	5	"		2	"	"	No drainage facilities	Not any	Adjoining house; vault full.	
116	"	"	152	Female	2½	"	Fatal	3	Sand	"	Waste pipe not trapped	"	Vault full.	
117	"	Slater	153	"	10	"	"	1	Clayey Gravel	Low	Defect in drain pipe	Not any	8 feet from house.	
118	"	Carrier	154	"	5	"	"	4	Sand	"	Waste pipe not trapped	Damp	6 feet from house; vault full.	
119	"	Laborer	155	Male	1	"		1	Clayey Gravel	"	" " " "	"	Adjoining house; offensive.	

MEASLES, WHOOPING-COUGH. — The epidemic of measles referred to in our last report died out in the first quarter of the year 1881, to be succeeded by the whooping-cough. The first cases of this disease came to our knowledge in the month of May, since which time it has prevailed extensively, and has been the cause of eight deaths. At the present time, the disease prevails in many sections of the city.

SMALL-POX. — We are fortunately able to report that our city has not yet been visited by this disease. During the year it has prevailed to a greater extent throughout the country than at any time since the epidemic of 1872 and 1873. Many cities and towns in this State have had cases during the year. Two years ago, after referring to the prevalence of the disease in many parts of this country and Europe, we called attention to the fact that at irregular intervals the susceptibility of communities to the disease was marked, and that we believed that we were then entering upon such a period. Impressed by these facts, we urged that provision should be made for a general vaccination of all persons in the city who were not vaccinated, and the city physician was instructed to provide virus and be prepared to vaccinate any persons who might come to him for that purpose. It will be seen by referring to his reports that but twenty-eight were vaccinated in 1880, and forty-six in 1881. It seems to us that although the people generally believe in the protective properties of vaccination, they from various causes neglect to avail themselves of its protection; and were it not that children are not supposed to be admitted to our schools until after they have produced proofs of their vaccination, the probabilities are that a very large number would attain their majority without having been vaccinated. Many of those vaccinated during the year were children who were about to enter school; and a few were children attending school, whose teachers discovered that they had not been vaccinated. The parents' statement should not be taken in any case. A certificate from a physician in good standing should be required, or else ocular proof of successful vaccination should be insisted on. When we consider the prevalence of the disease in so many parts of the country at the present time, and that cases are appearing in new places in this State, we feel justi-

fied in saying that our people should not wait until it makes its appearance in our midst, but should at once protect themselves by vaccination. The city physician will vaccinate free of charge all persons who are unable to pay for it. In view of the possibility of the disease assuming the form of an epidemic in the State, and that we may be prepared to take such measures as may seem to us under the circumstances advisable, we would ask, in addition to the amount usually appropriated for this department, the sum of \$1,000.

CHOLERA INFANTUM. — Although not a disease “dangerous to the public health” in the sense in which the term is used in the General Statutes, it will be seen on reference to our mortality tables that it is very dangerous to the public health, and adds largely to our mortality. During the past four years it was the cause of 142 deaths. During the same period, diphtheria caused 119 deaths, scarlet fever 38 deaths, typhoid fever 24 deaths, whooping-cough 10 deaths, and measles 5 deaths. As a result of our investigation of the causes of this disease, two facts stand out prominently: viz., a very large percentage of those attacked were children who were brought up on the bottle; and of those who were thus nourished, a very large majority died. Very few nursing children took the disease; and of those nursing children who did take the disease, almost all recovered. The important fact to remember in this connection is, that all women should nurse their children, unless advised to the contrary by their physicians; if it should happen that the mother is unable to nurse her child, or unable to procure a wet-nurse for it, she should see that it is provided with pure cow’s milk. The house and its surroundings should be examined, and any and every thing that might contaminate the air should be removed. During the summer months, removal to the country or the seashore would be desirable; and in lieu of this, taking the child out frequently during the day into the open air would be beneficial.

DISTRICTS.

We have continued our record of deaths, dangerous diseases, and nuisances in the ten health districts of the city, which districts

were described in full in the first and second annual reports of this board.

The boundaries of the districts, the locations of sewers built prior to Jan. 1, 1879, and the location of each case of scarlet fever, diphtheria, and typhoid fever reported in 1881, are shown by the accompanying map.

The soil in Districts I., II., III., V., VI., VII., VIII., and X. is chiefly clay or clayey gravel, there being considerable ledge in Districts VII. and VIII. In District IV. and in a part of District IX. the soil is sandy, while in the remainder of District IX. it is clay and clayey gravel. Districts I., III., and IV., and that part of District VIII. bordering on Mystic River are of a low elevation; the general elevation of the remainder of the city is high; parts of Districts II., V., VI., VII., VIII., and X. ranging from 90 to 145, feet above mean low tide.

The following statistics are shown by the four succeeding tables viz.: —

First. — The area, estimated population, number of dwellings, and average number of people per dwelling in each district in 1881, with the deaths for the last eight years (exclusive of deaths in the McLean Insane Asylum), and the rate per thousand of population.

Second. — The five principal causes of death in Somerville in 1881, with the number of deaths from each of these causes, and the rate per thousand of population in each district.

Third. — The number of cases of scarlet fever, diphtheria, and typhoid fever in each district reported in 1881, with the number of these cases that have up to this date proved fatal, and the number of cases and of deaths per thousand of population.

Fourth. — The number of nuisances abated in each district in 1881.

TABLE OF DEATHS IN EACH DISTRICT DURING THE LAST EIGHT YEARS, EXCLUSIVE OF DEATHS IN THE McLEAN ASYLUM.

Districts	I.		II.		III.		IV.		V.		VI.		VII.		VIII.		IX.		X.		Entire City.	
	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.
Area.....	337 A.		107 A.		93 A.		171 A.		361 A.		285 A.		194 A.		482 A.		174 A.		456 A.		2,660 A.	
Population...	4,802		4,686		1,816		3,222		5,038		1,113		2,753		820		1,464		645		26,359	
Dwellings....	734		683		287		503		820		256		449		161		275		137		4,305	
Average in each dwelling.	6.5		6.9		6.3		6.4		6.1		4.3		6.1		5.1		5.3		4.7		6.1	
YEAR.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.
1874.....	147	37	53	14	24	16	86	33	67	16	34	37	26	11	17	25	18	15	3	8	475	22
1875.....	149	37	84	22	26	17	56	21	75	18	29	32	32	14	13	19	15	12	7	15	486	22
1876.....	113	30	62	17	17	12	62	24	78	20	23	26	25	12	11	17	25	22	10	20	426	21
1877.....	126	32	57	15	18	12	57	22	61	15	31	34	29	13	12	18	32	27	5	10	428	20
1878.....	92	22	50	12	32	21	53	19	53	12	24	25	32	14	15	21	17	14	7	13	375	17
1879.....	92	21	50	12	29	18	62	22	77	17	14	14	22	9	14	19	16	12	9	16	385	16
1880.....	104	23	56	13	34	20	55	18	70	15	30	28	32	12	19	24	12	10	11	18	423	17
1881.....	111	23	64	14	41	23	48	15	62	12	36	32	38	14	18	22	19	13	8	12	445	17
8 years.....	934	28	476	15	221	18	479	22	543	15	221	33	236	12	119	21	154	16	60	15	3,443	20

In 1881.

TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH IN SOMERVILLE IN 1881, WITH THE NUMBER AND RATE IN EACH DISTRICT.

DISTRICTS.	CONSUMPTION.		PNEUMONIA.		DIPHTHERIA.		CHOLERA INFANTUM.		HEART DISEASE.	
	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.
I.....	10	2.08	16	3.33	18	3.75	11	2.29	6	1.25
II.....	11	2.35	6	1.28	3	0.64	.....	.....	5	1.07
III.....	5	2.75	3	1.65	7	3.85	4	2.20	1	0.55
IV.....	7	2.17	9	2.79	5	1.55	5	1.55		
V.....	8	1.59	5	1.00	2	0.40	6	1.20	4	0.80
VI.....	5	4.49	7	6.30	3	2.70	6	5.39	2	1.80
VII.....	4	1.45	6	2.18	2	0.73	1	0.36		
VIII.....	3	3.66	2	2.44	3	3.66	2	2.44	1	1.22
IX.....	3	2.05	1	0.68	.....	.....	1	0.68	3	2.05
X.....	.....	.....	1	1.55	1	1.55				
Total.....	56	2.12	56	2.12	44	1.71	36	1.37	22	0.83

TABLE OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN EACH DISTRICT IN 1881.

DISTRICT.	SCARLET FEVER.				DIPHTHERIA.				TYPHOID FEVER.			
	Cases reported.	Proved fatal.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases reported.	Proved fatal.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases reported.	Proved fatal.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.
I.....	.....	.....	.....	.....	42	17	8.75	3.54	46	2	9.58	0.42
II.....	11	1	2.35	0.21	20	3	4.27	0.62	2	1	0.42	0.21
III.....	3	.....	1.65	.....	20	8	11.01	4.55	5	1	2.75	0.55
IV.....	2	.....	0.62	.....	22	6	6.83	1.86	8	3	2.48	0.93
V.....	5	.....	0.99	.....	10	2	1.98	0.40	4	.....	0.79	
VI.....	.....	.....	.....	.....	9	3	8.09	2.70				
VII.....	2	.....	0.73	.....	17	2	6.18	0.73	1	1	0.36	0.36
VIII.....	.....	.....	.....	.....	11	3	13.41	3.66	2	.....	2.44	
IX.....	2	.....	1.37	.....	1	.....	.....	0.69	2	.....	1.37	
X.....	.....	.....	.....	.....	3	1	4.65	1.55	1	.....	1.55	
Total.....	25	1	0.95	0.04	155	45	5.88	1.71	71	8	2.69	0.30

NUISANCES ABATED IN EACH DISTRICT IN 1881.

District.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total.
Population.....	4802	4686	1816	3222	5038	1113	2753	820	1464	645	26359
Cellar damp	11	4	.....	.....	4	1	6	.....	.....	.....	26
Cesspool defective	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
“ offensive	2	.....	.....	1	.....	.....	.....	.....	.....	.....	3
“ overflowing	1	.....	.....	1	8	1	.....	.....	1	2	14
Connections of waste with drain-pipes defective.....	11	13	5	9	7	.....	6	3	.....	.....	54
Dead dog in cellar.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Drainage defective	11	8	14	1	2	.....	8	.....	1	4	49
“ emptying in cellar.....	9	2	3	8	4	.....	.....	1	2	1	30
“ emptying on surface.....	21	2	2	5	10	1	2	6	1	.....	50
Drain-pipe broken and leaking .....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	2
“ defective.....	7	2	7	.....	2	2	2	2	2	.....	26
“ not trapped.....	2	1	6	.....	1	.....	2	.....	.....	.....	12
“ stopped up.....	1	1	.....	3	2	.....	.....	.....	.....	1	8
Filth in cellar	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
“ on premises.....	7	1	.....	2	1	.....	.....	1	.....	.....	12
Grease rendered in open kettle.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Hennery offensive.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	2
Hens kept in cellar.....	1	.....	.....	1	.....	.....	1	.....	.....	1	4
Manure exposed and offensive.....	15	2	2	3	3	.....	2	1	.....	.....	28
Offal in cellar	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
“ on land.....	5	.....	1	2	1	.....	.....	.....	.....	.....	9
Offensive materials carted through streets	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Offensive odor in and about dwellings.....	6	1	1	.....	2	.....	3	.....	.....	.....	13
Opening in drain-pipe in cellar.....	.....	1	1	.....	.....	.....	1	.....	.....	.....	3
Slaughter-house offensive	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Slops thrown on surface.....	10	1	.....	1	4	.....	.....	.....	.....	.....	16
Soil pipe not ventilated.....	.....	1	5	.....	1	.....	2	.....	1	.....	10
Stable and stable premises filthy	3	.....	.....	1	1	1	2	.....	.....	.....	8
Stagnant water in house cellar	20	.....	1	1	9	2	.....	.....	.....	.....	33
“ “ in stable cellar	3	1	.....	.....	1	.....	.....	2	1	.....	8
“ “ on surface	10	1	2	1	2	.....	4	1	1	.....	22
Vault full.....	110	12	4	24	17	16	7	3	2	4	199
“ leaking	2	.....	.....	.....	.....	.....	1	.....	.....	.....	3
“ not properly constructed.....	5	1	.....	2	2	1	1	.....	1	.....	13
“ offensive.....	25	15	7	13	4	7	2	.....	5	2	80
Wagons washed on sidewalk.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Waste-pipe defective.....	3	1	1	.....	.....	.....	1	.....	.....	.....	6
“ leaking .....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
“ not trapped.....	97	58	43	20	22	5	25	11	3	3	287
“ stopped up.....	2	1	2	.....	.....	.....	1	.....	.....	.....	6
Water-closet defective.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	5
“ insufficiently supplied with water.....	.....	2	1	.....	1	.....	2	1	1	.....	8
“ not supplied with water.....	.....	.....	2	.....	.....	1	.....	.....	.....	.....	3
“ not trapped.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....	8
“ not ventilated.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
“ offensive.....	.....	1	1	.....	1	1	1	.....	1	1	7
Water-course polluted .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Well water unfit for use.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Wooden waste-pipes and drains	12	4	2	.....	2	.....	.....	.....	1	1	22
	426	138	119	108	115	39	83	32	26	22	1108

MAP OF SOMERVILLE,

1879.

SCALE.
Showing Locations of Diseases
Dangerous to the Public Health, for the year 1881.



Sewers shown thus: - - - - -

Sewer Outlets, ●

Boundaries of Health Dists. ————

REPORTED CASES, 1881

Scarlet Fever, ● Fatal cases, ... ●

Typhoid " ■ " " " " ■

Diphtheria, ▲ " " " " ▲

APPROPRIATION FOR HEALTH DEPARTMENT AND EXPENDITURES THEREFROM, 1881.

Appropriation,		\$2,800 00
Expended:—		
For collecting ashes,	\$1,185 70	
“ “ offal,	500 00	
“ burying dead animals,	17 50	
“ fumigating,	111 00	
“ sulphur,	2 69	
“ vaccine virus,	2 00	
“ serving notices,	4 16	
“ books, printing, stationery, postage, and advertising,	87 80	
“ carriage hire,	5 00	
“ labor,	3 75	
“ salary of inspector,	500 00	
“ “ “ clerk,	100 00	
	<hr/>	2,519 60
Balance unexpended,		<hr/> <hr/> \$280 40

REGULATIONS.

The following is a copy of Sect. 5 of Chap. 26 of the General Statutes, relating to boards of health, and authorizing such boards to make sanitary regulations:—

“The board shall make such regulations as it judges necessary for the public health and safety, respecting nuisances, sources of filth, and causes of sickness, within its town, or on board of vessels within its harbor; and respecting articles which are capable of containing or conveying infection or contagion, or of creating sickness brought into or conveyed from its town, or into any vessel. Whoever violates any such regulation shall forfeit a sum not exceeding \$100.”

The following are all the regulations adopted by this board before the printing of this report:—

OFFICE OF THE BOARD OF HEALTH,
SOMERVILLE, Oct. 17, 1878.

SCARLET FEVER.

Whereas, Scarlet fever is a disease contagious and dangerous to the public health; and *whereas*, it is now prevalent in the city of Somerville: therefore the Board of Health issues the following notice: — That on and after Oct. 17, 1878, the following provisions of Chap. 26 of the General Statutes will be strictly enforced: —

“SECT 47. When a householder knows that a person within his family is taken sick of any disease dangerous to the public health, he shall immediately give notice thereof to the board of health in the town in which he dwells. If he refuses or neglects to give such notice, he shall forfeit a sum not exceeding one hundred dollars.

“SECT. 48. When a physician knows that any person whom he is called to visit is infected with any disease dangerous to the public health, he shall immediately give notice thereof to the board of health of the town; and if he refuses or neglects to give such notice, he shall forfeit for each offence a sum not less than fifty nor more than one hundred dollars.”

And it is hereby ordered that no child from any house in which a case of this disease has occurred, or shall hereafter occur, shall, without a written permit from this board, attend any school in this city until the expiration of four weeks from the commencement of the last case in such house. Such length of time shall be certified in writing by a physician or some responsible member of the family; the certificate to be presented to the teacher of the school, before the child is admitted.

OFFICE OF THE BOARD OF HEALTH,
SOMERVILLE, Oct. 23, 1878.

SUGGESTIONS FOR PREVENTING THE SPREAD OF SCARLET FEVER.

Scarlet fever, scarlatina, scarlet rash, canker rash, and rash fever are names of a contagious and infectious disease of varying degrees of severity, but in which all the forms are capable of conveying the most severe type.

The contagious matter is capable of retaining its power to carry the disease for a long time. The means of transporting the contagion of scarlet fever may be furnished by anything that has come in contact with an infected person or object, — air, food, clothing, sheets, blankets, whiskers, hair, furniture, toys, library books, wall paper, curtains, cats, dogs, etc. Funerals have occasionally spread the disease, the exhalations from the dead body being also dangerous.

The period from exposure which results in scarlet fever, to the time when the symptoms manifest themselves, varies from several hours to three and possibly four weeks. The average time is variously given from six to eight or ten days.

The time at which one who has been ill with scarlet fever may safely mingle with other people is usually placed by sanitarians at four weeks from the commencement of the illness.

The first principle of treatment is in isolation. The patient should be in a room as much separated from the rest of the house as possible, and communicate with no more members of the household than is absolutely necessary. If an outward draught of air from the sick-room to the entry occurs, a curtain may be placed over and in front of the door, formed by a sheet which is soaked in some disinfectant. All unnecessary objects of every kind, especially woollen, should be removed from the room. The discharges from the throat, nose, and mouth of the patient may be put in a vessel containing a strong solution of some disinfectant, which shall be frequently washed with hot water; they should not be received upon anything which is to be kept. Pieces of soft cloth, which should be at once burned, may be used in place of pocket-handkerchiefs. This board recommends the following as a good fluid with which to disinfect cloths and clothes, and to put into vessels which are to receive slops or the discharges of the patient, or to turn down water-closets or privies to destroy contagion: "Eight ounces of sulphate of zinc, one ounce of carbolic acid, three gallons of water"; clothes "should be soaked in this fluid for at least one hour, and then placed in boiling water for washing."

Attendants on the sick should be as few as possible, and should not communicate with other persons any more than can be helped. They

should wear only such clothing as may be readily washed. Cloths used in the sick-room should be boiled before being worn elsewhere. Gargling or washing the mouth occasionally with a cleansing fluid is a useful measure for those who must be exposed to contagion; and in washing the hands, a little Condly's Fluid* may be placed in the basin.

After recovery, the patient should not mingle with other persons, use lounges, carriages, public rooms, etc., liable to be used by others, until all roughness of the skin has disappeared, and until he has taken warm baths for several days. After the sick-room is no longer needed as such, all clothing and other matters used in it that can be washed should be soaked in boiling water; any articles of trifling value ought to be burned. The wall paper should be soaked with carbolic acid, removed, and burned. The ceiling should be washed with soap and hot water, or scraped. The room should then be closed as tight as possible, and as much sulphur burned in it as the air will allow (a pound is an abundant amount for an ordinary room); it should be kept closed from six to eight hours, and then opened for several days to the air and sunshine. The floor and wood-work should then be thoroughly washed with soap and hot water.

Should the sick person die, the body ought not to be removed from the sick-room until it has been sealed in the coffin, having first been properly disinfected. It is advisable that the funeral should be as private as possible, and not attended by children.

The following sections in regard to isolation are from Chap. 26 of the General Statutes:—

“SECT. 47.—When a householder knows that a person within his family is taken sick of any disease dangerous to the public health, he shall immediately give notice thereof to the board of health in the town in which he dwells. If he refuses or neglects to give such notice, he shall forfeit a sum not exceeding one hundred dollars.

“SECT. 48.—When a physician knows that any person whom he is called to visit is infected with any disease dangerous to the public health, he shall immediately give notice thereof to the Board of Health of the town; and if he refuses or neglects to give such notice, he shall forfeit for each offence a sum not less than fifty nor more than one hundred dollars.”

* Made by adding two and a half drachms of permanganate of potash to one pint of cold water.

The Board of Health of Somerville at present requires small-pox, scarlet fever, diphtheria, and typhoid fever to be reported to it. Children are especially liable to take and to spread scarlet fever; and because schools afford a fine opportunity for this,—

It is hereby ordered:—

That no child from any house in which a case of this disease has occurred, or shall hereafter occur, shall, without a written permit from this board, attend any school in this city until the expiration of *four weeks* from the commencement of the last case in such family. Such length of time shall be certified in writing by a physician or some responsible member of the family; the certificate to be presented to the teacher of the school before the child is admitted.

REGULATIONS CONCERNING STABLES AND THE REMOVAL OF MANURE.

IN BOARD OF HEALTH OF THE CITY OF SOMERVILLE,
Dec. 9, 1880.

Ordered, That the owners or occupants of livery or other stables within the city of Somerville shall not wash or clean carriages or horses, or cause them to be washed or cleaned, in the streets or public ways; they shall keep their stables and stable yards clean, and no manure shall be allowed to accumulate or remain uncovered outside of the stable building.

No person shall remove any manure, or cause or suffer the same to be removed, between the first day of May and the first day of November, except between twelve o'clock at night and two hours after sunrise, without a written permit from the Board of Health.

No manure shall be removed or carried through the streets of this city except in a tight canvas-covered vehicle, with the covering so secured to the sides and ends of the vehicle as to prevent the manure in process of removal from being dropped or left in any street or way of the city. No manure shall be loaded into a vehicle in or upon any street, lane, or passageway, nor upon or across any sidewalk.

OFFICE OF THE BOARD OF HEALTH,
CITY HALL, SOMERVILLE, MASS., Dec. 13, 1878.

Voted, That this board considers small-pox, diphtheria, scarlet fever, and typhoid fever, diseases dangerous to the public health within the meaning of Chap. 26 of the General Statutes.

Voted, That the above vote, together with Sects. 47 and 48 of said Chap. 26, be published in two consecutive issues of the *Somerville Journal*.

CITY OF SOMERVILLE HEALTH REGULATIONS.

OFFICE OF THE BOARD OF HEALTH,
CITY HALL, SOMERVILLE, MASS., Feb. 24, 1882.

Ordered, That the following regulations be and they are hereby adopted:—

1. PRIVY-VAULTS, CESSPOOLS, AND DRAINS.—If the owner, agent, or occupant of any premises where a privy-vault, cesspool, or drain may be situated, shall neglect or refuse to cleanse such vault, cesspool, or drain after being notified by the Chief of Police that the same has become offensive, he shall be liable to the penalties provided by law.

No privy-vault or cesspool shall be emptied except by such parties, in such manner, and at such time as shall be specially authorized by the Board of Health. The owner, agent, or occupant of the premises where any privy-vault or cesspool may be situated shall always be liable for the expense of emptying the same.

2. HOUSE OFFAL.—All house offal and refuse animal or vegetable substances shall be placed in suitable vessels and kept in some convenient place, to be removed by the persons duly authorized for that purpose by the Board of Health. Such vessels shall be kept covered, and shall not be permitted to become offensive.

No person shall remove or carry in or through any street, avenue, square, court, lane, place, or alley, within the city, any house offal, or any offensive animal or vegetable substance, without a permit from the Board of Health, nor in any manner except such as shall be specified in such permit.

3. ASHES.—Ashes and house dirt to be removed by the city shall be kept entirely free and apart from offal and filth of any kind, and

shall be placed in barrels or other suitable vessels on the outer edge of the sidewalk, in the forenoon of the following-named days: In Ward One, on the first Wednesday of each month; in Ward Two, on the second Wednesday of each month; in Ward Three, on the third Wednesday of each month; in Ward Four, on the fourth Wednesday of each month.

4. NUISANCES. — No person shall deposit and leave exposed upon the surface of the ground, nor put into any body of water, in the city, any dead animal; nor shall any person throw or put into or upon any public or private way, lot of land, or body of water, any slops, decayed vegetables, fish, or other offensive substance whatsoever.

5. COLLECTING GREASE. — No person shall collect or remove from any dwelling-house or other place in the city, any grease, or refuse fatty matter, without first obtaining a permit so to do from the Board of Health, and in all respects complying with the conditions of such permit. All such permits shall expire on the first day of May, annually, and may be revoked at any time by the Board of Health; and no person shall receive such a permit without first paying to the clerk of the Board of Health, for the use of the city, the sum of \$2.00.

6. GOATS AND SWINE. — No person shall keep a goat or swine within the limits of the city, without first obtaining a permit so to do from the Board of Health, and in all respects complying with the conditions of such permit. All such permits shall expire on the first day of May, annually, and may be revoked at any time by the Board of Health; and no person shall receive such a permit without first paying to the clerk of the Board of Health, for the use of the city, the sum of \$1.00 for each goat or swine to be kept.

7. NIGHT-SOIL. — No person, unless specially authorized by the Board of Health, shall drive any cart, or other vehicle, containing, or used for conveying, night-soil or other offensive matter, in any street of the city, between the hours of 4 A. M. and 10 P. M., during the months of April, May, June, July, August, and September; nor between the hours of 5 A. M. and 9 P. M., during the months of October, November, December, January, February, and March.

This regulation shall not be understood to conflict with the regu-

lations adopted by this board Dec. 18, 1880, concerning "stables and the removal of manure."

8. AGENT OF THE BOARD OF HEALTH. — The Chief of Police is hereby constituted an agent of this board, for the purpose of enforcing all health regulations that are now or may hereafter be in force in this city.

9. DIPHTHERIA. — Whereas, diphtheria is a disease contagious and dangerous to the public health, the Board of Health issues the following order: —

No child from any house in which a case of the disease has occurred shall, without a written permit from this board, attend any school in this city until the expiration of two weeks from the commencement of the last case in such house; such length of time shall be certified in writing by a physician or some responsible member of the family, the certificate to be presented to the teacher of the school before the child is admitted.

REGULATIONS CONCERNING THE RENDERING OF REFUSE ANIMAL MATTER.

OFFICE OF THE BOARD OF HEALTH,
CITY HALL, SOMERVILLE, May 31, 1878.

By virtue of the authority given in Chap. 26 of the General Statutes, the Board of Health of the city of Somerville hereby forbids the exercise, on or after June 15, 1878, of the trade or employment of rendering tallow (other than fresh tallow), lard, grease, fat, bones, or other refuse animal matter, within the limits of the city of Somerville, except at the factories of Charles H. North & Co., Medford Street, Joseph Boynton, Windsor Street, Charles O'Neil, Linden Street, or at such other place or places as may hereafter be assigned by said board; such trade or employment being in the opinion of the board a nuisance, hurtful to the inhabitants, the exercise of which is attended by noisome and injurious odors.

REGULATIONS FOR THE CONSTRUCTION OF HOUSE DRAINAGE.

IN BOARD OF HEALTH OF THE CITY OF SOMERVILLE,

Dec. 9, 1880.

By virtue of the authority given to boards of health by Chap. 133 of the Acts of the General Court for the year 1877, the Board of Health of the city of Somerville hereby makes the following regulations for the construction of house drainage: —

SECTION 1. *Materials.* — That portion of the house drain which is outside of the building and more than four feet from the foundation walls shall be constructed of iron pipe or the best quality of drain-pipe.

That portion of the house drain inside or under the building, and also that portion outside the building and within four feet of the foundation walls, together with the soil-pipe, shall be constructed of iron pipe with leaded joints.

The waste-pipes connecting with the conductors from the roofs, and all other pipes inside the building or outside and within four feet of the foundation walls, shall be constructed of lead or iron with leaded joints.

SECT. 2. *Grades.* — The house drain and other pipes for the conveyance of sewage shall be laid with a uniform grade and a fall of not less than one inch in four feet, except in cases where the City Engineer may permit otherwise.

SECT. 3. *Traps.* — The house drain shall be provided with a trap which shall be located outside of all house connections.

Every pipe connecting a water-closet with a soil-pipe shall be trapped close to the connection with the water-closet.

All waste-pipes shall be trapped, each separately, and close to the connection with the bath, sink, bowl, or other fixture.

SECT. 4. *Ventilation.* — All soil-pipes shall be carried at their full size through the roof, and left open. A provision shall also be made for admitting air to the house drain on the house side of the main trap.

SECT. 5. *Workmanship.* — The joints in the drain-pipe shall be carefully cemented under and around the pipe, and the joints in the iron pipe shall be run and calked with lead.

All changes in direction shall be made with curved pipes, and all connections shall be made with Y branch pipes.

All joints and pipes shall be made air-tight.

The whole work to be executed by skilful mechanics in a thorough and workmanlike manner, and satisfactory to the Board of Health

SECT. 6. *Plans.* — Before proceeding to construct any portion of the drainage system of a hotel, tenement, or dwelling-house, the owner, builder, or person constructing the same shall file with the City Engineer a plan thereof, showing the whole drainage system from its connection with the common sewer to its terminus in the house, together with the location of all branches, traps, ventilating pipes, and fixtures.

SECT. 7. These regulations shall apply to all hotels, tenements, dwelling-houses, and other buildings hereafter erected in the city of Somerville.

GEORGE A. KIMBALL, C. E.
JOHN F. COUCH, M. D.
GEO. C. SKILTON.

REPORT OF THE CITY PHYSICIAN.

CITY PHYSICIAN'S OFFICE, BOW STREET,
Jan. 1, 1882.

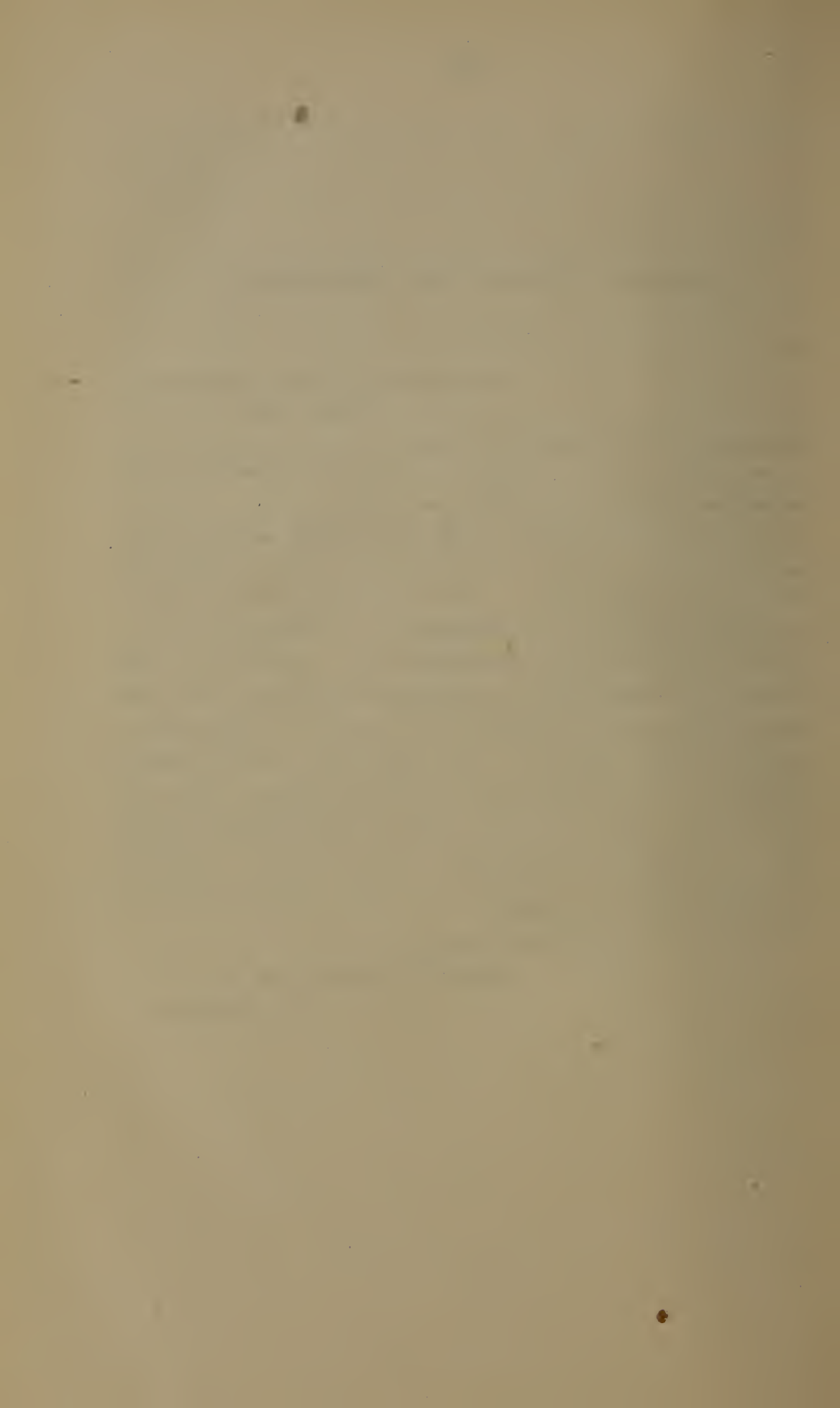
To his Honor the Mayor and the City Council:

GENTLEMEN, — I have the honor to present the following report for the year ending Dec. 31, 1881: —

I have made during the year 2,771 visits; 2,260 of these were medical and 83 were surgical; 28 were made to persons temporarily confined in the police station. I have attended 24 obstetric cases. I have vaccinated 46 persons, mainly children. Fourteen times during the year I was called to view dead bodies. In some cases the persons died suddenly, others after a lingering illness; and a few were of children who died shortly after birth, their mother not being attended by a physician. In all cases, after careful inquiry, certificates of the probable cause of death were signed. Two candidates for the police force were examined and certificates given them. I examined during the year 11 persons who were supposed to be insane, and gave certificates in 7 cases. Thirty-six persons had teeth extracted in my office.

Respectfully submitted,

JOHN F. COUCH, M. D.,
City Physician.



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REPORT
OF THE
COMMITTEE ON STREET LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1881.

Report accepted and referred to the next city government, to be printed in the Annual Reports. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

SOMERVILLE, Dec. 30, 1881.

To the City Council of the City of Somerville:

Your Committee on Street Lights beg leave to make the following report:—

The whole number of street lights in the city is three hundred and seventy-five; of this number, three hundred and twenty-nine burn gas, and forty-six naphtha. Six new lamps have been added during 1881.

During the year there has been a reduction in the price of gas effected with both the Cambridge and Charlestown gas companies. In 1880, the price of gas furnished by the Cambridge Gas Light Company was \$2.75 per thousand; in 1881, \$2.37 per thousand. The Charlestown Gas Company furnished gas in 1880 for \$2.50 per thousand; and in 1881 for \$2.35 per thousand.

Your committee feel that they are under obligations to the Superintendent of Street Lights for accepting a reduction in the price made with him at the beginning of the year, thus enabling them to keep very nearly within the appropriation; but in view of the increasing demand for more light and additional lamps, the committee feel that the appropriation has been rather too small, and that the department cannot be managed to the satisfaction of a large majority of our citizens without a larger expenditure.

Respectfully,

G. T. BURNHAM.

E. C. CLARK.

W. E. WELD.

LEVI F. S. DAVIS.

S. N. LOTHROP.

REPORT
OF
COMMITTEE ON FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1881.

Report accepted, and referred to the next city government, to be printed in the Annual Reports. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

Concurred in.

IN COMMON COUNCIL, Dec. 30, 1881.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Dec. 23, 1881.

To his Honor the Mayor, and the City Council:

GENTLEMEN, — Your committee beg leave to present the following report: —

Expenditures for the year,		\$22,128 00
Appropriation,	\$21,500 00	
Receipts,	237 40	
	<hr/>	21,737 40
Excess of expenditure,		\$390 60

Of the amount expended, \$13,276 was paid for salaries; \$1,428 for Mystic water for use from hydrants; \$900 for hose; and the balance for repairs on buildings and apparatus, and for miscellaneous supplies.

Your committee has made alterations in the house of Hook and Ladder Company No. 1, and Hose Company No. 3, and the stalls in all the houses are now so placed that the horses come directly to the pole.

An entire change has been made by the introduction of the "swinging harness" in all our houses. Its advantages are, the prevention of breaking and wear of harnesses in the stalls, greater comfort to the horses, and the saving of time in hitching up.

A new heating boiler has been placed in the steamer's house, in lieu of an old one which had become unfit for use.

No complaints have been made to us of dereliction of duty on the part of any member of the department, and we cheerfully commend the promptness with which alarms have been answered and fires extinguished.

In conclusion, your committee would say that they have been constantly mindful of the interests of the department and the city.

J. L. NORCROSS, *Chairman.*

REPORT
OF THE
COMMITTEE ON PUBLIC PROPERTY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1881.

Report accepted and referred to the next city government, to be printed with the city Reports for the year 1881. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON PUBLIC PROPERTY,
Dec. 30, 1881.

To the City Council of Somerville :

The Committee on Public Property have reported upon all matters that have been referred to them, and present the following statement of the accounts which have been managed by said committee : —

POLICE-STATION INCIDENTALS.

Appropriation,	\$2,300 00	
Received for rent of halls,	353 00	
	<hr/>	\$2,653 00

EXPENDED.

For janitor's salary,	\$700 00	
“ gas,	293 45	
“ coal and wood,	382 17	
“ oil for carburetter,	158 00	
“ water,	68 00	
“ insurance,	20 00	
“ repairs,	187 63	
“ sundry small expenses,	71 53	
	<hr/>	1,880 78
Balance unexpended,		<hr/> <hr/> \$772 22

PUBLIC-PARK MAINTENANCE.

Appropriation,	\$1,200 00	
Received for grass,	9 00	
<i>Amount carried forward,</i>	<hr/>	\$1,209 00

Amount brought forward, \$1,209 00

EXPENDED.

For pay of foreman,	\$720 00	
“ additional labor,	345 87	
“ painting fence,	245 00	
“ lighting and cleaning lamps,	60 00	
“ filling, sods, loam, manure, and team- ing,	83 54	
“ plants,	45 00	
“ oil for lamps, tools, etc.,	50 50	
		<u>1,549 91</u>

Excess of expenses, \$340 91

SCHOOL-HOUSE REPAIRS.

Appropriation,	\$7,000 00	
Received for rent of halls,	558 00	
“ “ articles sold,	64 50	
		<u>\$7,622 50</u>

EXPENDED.

For general repairs, alterations, and fur- niture,	\$4,829 57	
“ rent,	550 00	
“ insurance,	906 55	
“ gas,	186 96	
“ emptying vaults,	83 50	
“ trees, loam, and care of grounds,	61 50	
“ assessments for sewer and sidewalk,	47 21	
		<u>6,665 29</u>

Balance unexpended, \$957 21

SCHOOL-HOUSE ON HIGHLAND AVENUE.

Appropriation,	\$18,000 00	
Appropriation for 1880, balance unex- pended,	7,166 72	
		<u>\$25,166 72</u>
<i>Amount carried forward,</i>		\$25,166 72

Amount brought forward, \$25,166 72

EXPENDED.

For mason's part, as per contract,	\$11,004 00	
“ “ “ extra work,	455 08	
“ carpenter's part, as per contract,	11,425 00	
“ “ “ extra work,	39 60	
“ heating apparatus, as per contract,	925 00	
“ “ “ extra work,	51 90	
“ furniture,	644 60	
“ architect's services,	618 00	
“ additional carpentering,	177 31	
“ filling and grading,	285 27	
“ emptying temporary privy,	3 50	
	<hr/>	25,629 26
Excess of expenses,		<hr/> <hr/> \$462 54

The total cost of this school-house and lot is as follows:—

Items above stated,	\$25,629 26
Paid in 1880:—	
For 23,260 ft. land at 18c.,	4,186 80
“ advertising and postal cards,	25 13
“ water-service pipe,	38 15
“ mason's part, as per contract,	2,470 00
“ architect's services,	300 00
Total cost,	<hr/> <hr/> \$32,649 34

SCHOOL-HOUSE (LINCOLN) ON CLARENDON HILL.

Appropriation, \$3,000 00

EXPENDED.

For moving and refitting, as per contract,	\$2,296 00	
“ 17,662 feet land, at 7 cents,	1,236 34	
“ carpentering,	89 25	
“ sewer assessment,	108 80	
“ water-service pipes,	40 25	
	<hr/>	
<i>Amounts carried forward,</i>	\$3,770 64	<hr/> <hr/> \$3,000 00

<i>Amounts brought forward,</i>	\$3,770 64	\$3,000 00
For grading,	37 00	
“ blackboards,	14 88	
“ cleaning,	17 00	
“ advertising,	8 00	
“ architect’s services,	50 00	
	<hr/>	3,897 52
Excess of expenses,		<hr/> <hr/> \$897 52

SUMMARY.

	OVERDRAWN.	BALANCE.	
For Police-Station Inci- dentals,	.	\$772 22	
“ Public-Park Mainte- nance,	\$340 91		
“ School-House Re- pairs,		957 21	
“ School-House on Highland Avenue,	462 54		
“ School-House (Lin- coln) on Claren- don Hill,	897 52		
Totals,	<hr/> \$1,700 97	<hr/> \$1,729 43	
Excess of balances,			<hr/> <hr/> \$28 46

Your committee have also expended from

Miscellaneous Account:—

For City Hall expenses,

Gas,	\$304 17
Water,	50 00
Coal and wood,	65 21
Repairs and altera- tions, etc.,	715 29
Furniture, etc.,	315 19
	<hr/>

Amount carried forward, \$1,449 86

<i>Amount brought forward,</i>	\$1,449 86	
For rent and care of halls for caucuses and elections,	48 00	
“ hoisting and lower- ing flag-staffs,	48 00	
“ ringing bells,	2 00	
Total,		<u>\$1,547 86</u>

For the committee,

E. C. CLARK, *Chairman.*
GEO. I. VINCENT, *Clerk.*

REPORT
OF THE
COMMITTEE ON CLAIMS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1881.

Report accepted and referred to the next city government, to be printed with the city Reports for the year 1881. Sent down for concurrence.

CHARLES E. GILMAN, *City Clerk.*

IN COMMON COUNCIL, Dec. 30, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON CLAIMS, Dec. 28, 1881.

To the City Council of Somerville :

The Committee on Claims present herewith the Report of the City Solicitor for the year 1881.

By order of the committee,

GEO. I. VINCENT, *Clerk.*

REPORT OF THE CITY SOLICITOR.

23 COURT STREET, BOSTON, Dec. 28, 1881.

To the Committee on Claims :

GENTLEMEN, — I have received your favor of the 13th inst., requesting me to report to you for presentation to the City Council a statement of lawsuits that have been settled during the year, and of all suits now pending. I beg leave to reply as follows :

Of the twenty-one cases reported by me as pending Dec. 17, 1880, the following have been disposed of during the year : —

1 to 7. Seven suits of William S. Stearns *et al.*, before the Commissioners of Middlesex County, for abatement of taxes for the year 1875, were dismissed Jan. 11, 1881.

8. The case of City of Somerville in Equity *v. North et al.*, in the Supreme Judicial Court for Middlesex County, has been discontinued without costs to the city, the subject matter of the suit having been adjusted.

9 and 10. The two cases of Clark Bennett *v. City of Somerville*, one for revision of public-park betterment assessments and the other for revision of Chauncey Avenue betterment assessments, were tried June 21 to 24, and argued June 27, 1881, resulting in a reduction of the assessments. These cases close the list of park and street assessments, and I am happy to add that there is not now a betterment-assessment case on the city docket. It should, however, be added that the matter of costs in the Reed case, amounting to \$674.60, referred to in my last report, still remains unadjusted, for reasons beyond my control ; but as the executions for their enforcement, which were wrongfully taken out by the petitioners, have since my last report “run out,” it gives me pleasure to say that I have so arranged matters that no new ones will be issued until the petitioners are willing to deal fairly by the city, in submitting the taxation of costs to the court.

11. The case of Clark Bennett, petitioner for *certiorari* to quash the Chauncey Avenue betterment assessments, was dismissed Jan. 1, 1881, as I intimated in my last annual report I expected would be done.

12. The case of the Cambridge Gas Light Company *v.* The City of Somerville, for loss of gas and damage to gas-pipe during the construction of the West Somerville sewer, was concluded March 24, 1881, by entry of judgment in favor of the city.

13. The case of Roach *v.* Somerville, for personal injuries received on Somerville Avenue, was argued in the Supreme Court, at Boston, March 7, 1881, and has since been decided in favor of the city.

14. The case of Rouse *v.* Somerville, for personal injuries near the Fitchburg Railroad on Washington Street, was argued Jan. 20, 1881, before the Supreme Court at Boston, who have since that time rendered a decision in favor of the city.

15. The suit of Sargent *v.* Boynton, to recover taxes for the year 1878, was decided in favor of the city, and the tax has since been paid.

The following cases are at present pending against the city : —

1. Willard Dalrymple *v.* City of Somerville. Petition before County Commissioners of Middlesex County, for abatement of sewer assessment on Medford Street. Since receiving your favor of the 13th inst., I have been assured by the petitioner's counsel that he can see no reason why the suit should be pursued, and will recommend his client to withdraw the same.

2. City of Somerville, for bridges, etc., *v.* The Boston and Lowell Railroad. In this case I have been informed that plans for a new bridge over School Street have been prepared, and several conferences had between certain officers of the railroad and the city ; but the annual appropriations of the city for the past year did not contemplate any improvement at this point to which the city would contribute, and it has not been deemed advisable to test at present the question as to whether the railroad can be compelled by law to widen its present bridge and approaches at this place at its own expense, — a question which, so far as I know, has never been decided in this Commonwealth.

3. In the case of *Somerville v. the Fitchburg Railroad*, for grade crossing at Sacramento Street, I have no report to make different from that in my last annual communication, to which I beg leave to refer you.

4. The case of the city *v. the Fitchburg Railroad*, for better protection of public travel at the junction of that road with Somerville Avenue, Linwood and Fitchburg Streets, has been heard before the County Commissioners, who are to enter forthwith, by agreement of parties, an order directing the erection of gates at that place; with which order the railroad has signified its willingness at once to comply, at its own expense. The City Engineer has approved the plans for that purpose, submitted to him by the civil engineer of the railroad.

5. The case of *Parker (trustee of the Klous estate) in equity v. Somerville*, in the Supreme Judicial Court for Middlesex County, to prohibit the continuance of an alleged nuisance growing out of the construction of the Canal Street sewer, has not been advanced by the petitioner for hearing, during the present year. There is no such advantage resulting to the city from the prosecution of a suit of this character as to make it my duty to press the same to a conclusion.

6. The suit of *Parker, trustee of Klous estate, v. Somerville*, before the Middlesex County Commissioners, for land damages, in the same matter as next above, stands in the same condition.

7. *Sanborn v. Somerville*. Action for grade damages on Washington Street, near Fitchburg Railroad, is upon the present trial list of the Superior Court at Cambridge, and has been passed temporarily on account of the illness of petitioner, who resides in New York. The plaintiff's counsel is also seeking meanwhile to verify certain facts which are set up in defence. If he finds them to be true, as alleged by the city, he admits his client cannot prevail, and that he shall recommend a withdrawal of the suit. It will be my effort not to allow this case to go over the term, unless Mr. Sanborn's illness continues.

8. *Squire v. Somerville*. The plea in abatement in this case was argued by me May 4, and again May 18, 1881, before the Superior Court at Boston. The plea was sustained, and an order

passed transferring the cause to the Superior Court in Middlesex County. It is upon the present trial list, and will probably be referred to an auditor when reached, as was recently done with the similar case of *Squire v. Cambridge* in the Suffolk Superior Court.

9. *William Sullivan v. Somerville*. This is an action of contract brought in the name of William Sullivan, but for the use and benefit of Daniel F. McCarty and Mary Ann McCarty, upon an assignment of Sullivan to them, dated Jan. 3, 1877, of certain moneys to become due the said Sullivan upon the contract with the city for building the West Somerville sewer. It is claimed that the sum of \$15,000 was due the McCartys under this assignment, which the city has failed to pay them. The case was brought in the Superior Court at Salem, but I have by affidavit provided for its removal into the Supreme Court which comes in at Salem in April next.

10. The suit of *Cunningham v. Somerville*, for personal injuries on Washington Street at the foot of Boston Street, is on the present trial list at Cambridge, and will be tried when reached.

There have been concluded during the year two other cases that have arisen during the year; to wit, the petition of *Reed et al. v. Somerville*, before the Middlesex County Commissioners, to compel the city to grade and construct Middlesex Avenue; and the suit of the city against Haskell, to recover for support of defendant's wife by the Overseers of the Poor, — in both of which cases a decision was made in favor of the city.

During the year I have attended the sessions of your committee, at which the following claims for compensation for damages to person and property have been presented, to wit: —

Of H. H. Gilmore, for damages growing out of a collision between hose carriage and his team, on Webster Avenue.

Of Ida F. Boynton, for personal injuries on Broadway.

Of Susan L. Taylor, for personal injuries on Brooks Street.

Of Sprowell Pease, for personal injuries on Summer Street.

Of T. Cunningham, for personal injuries on Washington Street.

Of Thomas Curtis, for personal injuries on Webster Street.

Of J. H. Stevens, for damage to horse and wagon on Wallace Street.

In one of these cases, that of J. H. Stevens, I advised a settlement ; and it was settled, as I understand, by his Honor the Mayor for the sum of \$25, as authorized by the City Council.

In all the others, for various reasons that I need not here enumerate, I advised you that in my opinion the city could not be held liable ; and with but a single exception (that of *Cunningham v. Somerville*), the petitioners seem so far to have acquiesced in your disposition of their cases.

Respectfully submitted,

SAMUEL C. DARLING,
City Solicitor.

ANNUAL REPORT OF THE CITY CLERK.

Annual report of the receipts of his office for the year ending Dec. 31, 1881; also the registration of marriages, births, and deaths for the period ending Dec. 31, 1881.

RECEIPTS ENDING DEC. 31, 1881.

223 marriage certificates issued in 1881,	\$111 50
43 junk licenses issued in 1881,	86 00
200 swine " " "	200 00
23 goat " " "	23 00
12 grease " " "	24 00
10 liquor " " "	10 00
6 auctioneers' licenses issued in 1881,	12 00
Fees for licensing dogs in 1881,	105 20
Recording mortgages and assignments, and copies of records,	167 35
	<hr/>
	\$739 05

All of which has been paid to the city treasurer, and his receipt taken for the same.

MARRIAGES.

Number of intentions issued in 1881,	223
Less than last year,	3
Marriages registered in 1881,	222

NATIONALITY OF THOSE REGISTERED.

Both parties American,	116
Both parties foreign,	44
American groom and foreign bride,	30
Foreign groom and American bride,	32
	<hr/>
	222 couples.

First marriage of	388 persons.	
Second " "	54 " "	
Third " "	2 " "	
	<hr/>	= 222 couples.
	444	
	<hr/> <hr/>	
Oldest person married,	63	
Youngest " "	17	

BIRTHS.

Number of births registered in 1881,		664
More than last year,		46
Males,	359	
Females,	305	
Born of American parents,		318
" foreign parents,		215
" American male and foreign female,		41
" foreign male and American female,		60
Number of cases of twins,	6	

DEATHS.

Number of deaths in Somerville in 1881,		459
More than last year,		31
Number of males,	247	
" " females,	212	
Under 10 years of age,		214
Between 10 and 20,		25
" 20 " 30,		34
" 30 " 40,		22
" 40 " 50,		37
" 50 " 60,		37
" 60 " 70,		35
" 70 " 80,		34
" 80 " 90,		19
Unknown,		2
		<hr/>
		459

Oldest person deceased, eighty-nine years and nine months.

NATIONALITY.

Born in Somerville,	170
Other places in United States,	182
Of foreign birth,	102
Unknown,	5
	— 459

Number of deaths returned by the undertakers was 459, and occurred as follows:—

January,	40	July,	42
February,	31	August,	50
March,	43	September,	34
April,	36	October,	55
May,	25	November,	32
June,	32	December,	39
			— 459

For classification of diseases, see Report of Board of Health.

CHARLES E. GILMAN,
City Clerk.

REPORT
OF THE
COMMITTEE ON SOLDIERS' RELIEF.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1881.

Report accepted and referred to the next city government, to be printed in the Annual Reports. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

To the City Council of the City of Somerville :

Your Committee on Soldiers' Relief respectfully submit the following report for the year ending Dec. 31, 1881, to wit:—

Total amount of appropriation,		\$1,000 00
January bills approved,	\$43 88	
February “ “	130 47	
March “ “	100 09	
April “ “	98 93	
May “ “	43 31	
June “ “	45 75	
July “ “	42 85	
August “ “	46 00	
September “ “	61 72	
October “ “	70 00	
November “ “	49 25	
December “ “	155 00	
	<hr/>	
Total amount disbursed,		896 25
Unexpended balance,		<hr/> \$103 75

Relief has been extended to forty-seven soldiers and their dependants in necessitous circumstances.

Respectfully submitted,

MARTIN BINNEY, *Clerk.*

CALEB A. PAGE, *Chairman.*

CITY GOVERNMENT FOR 1882.

MAYOR.

JOHN A. CUMMINGS.

Residence, 16 Wallace Street ; Office, City Hall.

ALDERMEN.

WILLIAM E. WELD, *President.*

WARD ONE.

MARK F. BURNS	Perkins Street.
ELIJAH C. CLARK	Ellsworth Street.

WARD TWO.

J. FRANK WELLINGTON	Pleasant Avenue.
CALEB A. PAGE	Union Square.

WARD THREE.

J. LELAND NORCROSS	Marshall Street.
THOMAS R. ROULSTONE	Bonair Street.

WARD FOUR.

ASA DURGIN	Broadway.
WILLIAM E. WELD	Harvard Street.

COMMON COUNCIL.

ALBION A. PERRY, *President.*

WARD ONE.

LEVI F. S. DAVIS	Pearl Street.
HIRAM G. JANVRIN	Pickney Street.
MOSES G. STEELE	Rush Street.
CHARLES E. GILES	Webster Street.

WARD TWO.

CLARENCE P. WESTON	Union Square.
MARTIN BINNEY	Dane Street.
FREDERICK M. STODDER	Grand View Avenue.
FRANK E. FITTS	Pleasant Avenue.

WARD THREE.

ALBION A. PERRY	Evergreen Avenue.
HENRY M. BEALS	Maple Avenue.
HIRAM D. SMITH	Cross Street.
PHILIP O. WOODBERRY	Adams Street.

WARD FOUR.

J. LORENZO ATTWOOD	Elm Street.
IRVING L. RUSSELL	Broadway.
RICHARD T. BLACKWELL	Kent Court.
SAMUEL T. RICHARDS	Summer Street.

JOINT STANDING COMMITTEES FOR 1882.

ACCOUNTS. — Aldermen Weld, Wellington ; Councilmen Janvrin, Woodberry, Attwood.

BURIAL GROUNDS. — Aldermen Durgin, Roulstone ; Councilmen Stodder, Steele, Russell.

CITY ENGINEERING. — Aldermen Durgin, Norcross ; Councilmen Steele, Russell, Fitts.

CLAIMS. — His Honor the Mayor, *ex officio* ; the president of the Common Council, *ex officio* ; Alderman Burns ; Councilmen Weston, Janvrin.

FINANCE. — His Honor the Mayor, *ex officio* ; the president of the Common Council, *ex officio* ; Aldermen Burns, Weld ; Councilmen Weston, Davis, Smith, Fitts.

FUEL AND STREET LIGHTS. — Aldermen Page, Durgin ; Councilman Giles, Woodbury, Stodder.

FIRE DEPARTMENT. — Aldermen Page, Roulstone ; Councilmen Davis, Stodder, Blackwell.

HIGHWAYS. — Aldermen Durgin, Wellington ; Councilmen Steele, Smith, Russell.

ORDINANCES. — Aldermen Burns, Norcross; Councilmen Weston, Smith, Attwood.

PUBLIC PROPERTY. — Aldermen Clark, Wellington; Councilmen Beals, Richards, Giles.

PRINTING. — Aldermen Weld, Roulstone; Councilmen Fitts, Beals, Janvrin.

SOLDIERS' RELIEF. — Aldermen Roulstone, Clark; Councilmen Stodder, Woodberry, Blackwell.

WATER. — Aldermen Norcross, Burns; the president of the Common Council; Councilmen Fitts, Richards.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

SEWERS. — Aldermen Norcross, Burns, Weld.

ELECTIONS. — Aldermen Wellington, Durgin.

ENROLLED ORDINANCES. — Aldermen Clark, Page.

LICENSES. — Aldermen Wellington, Norcross.

POLICE. — His Honor the Mayor, *ex officio*; Aldermen Clark, Norcross.

STATE AID. — Aldermen Roulstone, Page, Weld, Clark.

OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Fitts, Blackwell, Steele.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Davis, Stodder, Beals.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN; Office, City Hall.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE; Office, City Hall.

CITY MESSENGER.

JAIRUS MANN; Office, City Hall.

CITY ENGINEER.

GEORGE A. KIMBALL, Office, City Hall.

CITY SOLICITOR.

SAMUEL C. DARLING ; Office, 18 Rogers Building, Boston.

CITY PHYSICIAN.

THOMAS M. DURELL, 14 Bow Street.

CLERK OF COMMON COUNCIL.

DOUGLAS FRAZAR.

CLERK OF ASSESSORS AND COMMITTEES.

GEORGE I. VINCENT ; Office, City Hall.

CITY AUDITOR.

DOUGLAS FRAZAR ; Office, City Hall.

CHIEF OF POLICE.

MELVILLE C. PARKHURST, Police Station, Bow Street.

SUPERINTENDENT OF STREETS.

JOHN P. PRICHARD, 10 Cutter Street ; Office, City Hall.

CHIEF ENGINEER OF FIRE DEPARTMENT.

JAMES R. HOPKINS ; Office, City Hall.

ASSISTANT ENGINEER OF FIRE DEPARTMENT.

NATHANIEL C. BARKER . . . Ellsworth Street.

SUPERINTENDENT OF SCHOOLS.

JOSHUA H. DAVIS . . . Myrtle Street.

INSPECTOR OF BUILDINGS.

DAVID A. SANBORN Prospect Street.

BOARD OF HEALTH.

GEORGE A. KIMBALL, *Chairman* . . Office, City Hall.
 THOMAS M. DURELL Office, Bow Street.
 GEORGE C. SKILTON Office, Walnut Street.
 GEO. I. VINCENT, *Clerk* Office, City Hall.
 W. H. BRINE, *Inspector* Office, City Hall.

MYSTIC WATER BOARD.

EDWARD FOOTE, *President* Broadway.
 EDWIN S. CONANT, *Clerk* Pearl Street.
 WESLEY C. CRANE Summer Street.
 A. R. COOLIDGE Columbus Avenue.
 J. O. HAYDEN Spring Street.

SUPERINTENDENT OF WATER WORKS.

NATHANIEL DENNETT ; Office, Prospect Street, corner of Somerville Avenue.

COMMISSIONERS OF THE SINKING FUNDS.

NATHAN TUFTS. HENRY F. WOODS. JOHN A. HUGHES.
 AARON SARGENT, *Treasurer*.

TRUSTEES OF THE PUBLIC LIBRARY.

REV. H. H. BARBER, *President*. CHARLES S. LINCOLN.
 J. HENRY FLITNER, *Secretary*. THOMAS J. BUFFUM.
 W. G. TOUSEY. WILLIAM VEAZIE.
 WM. H. BRINE. C. E. RYMES.
 EDWIN S. CONANT.

LIBRARIAN.

MISS HARRIET A. ADAMS.

ASSISTANT LIBRARIAN.

MISS LIZZIE A. STEVENS.

PRINCIPAL ASSESSORS.

THOMAS CUNNINGHAM, *Chairman* Oak Street.
 STILLMAN H. LIBBY Elm Street.
 GEORGE W. HADLEY Perkins Street.
 GEORGE I. VINCENT, *Clerk*; Office, City Hall

ASSISTANT ASSESSORS.

DANIEL BROOKS, Ward One Ellsworth Street.
 B. F. THOMPSON, Ward Two Summit Avenue.
 R. A. MELVIN, Ward Three Bonair Street.
 W. A. MUZZEY, Ward Four Newbury Street.

OVERSEERS OF POOR.

JOHN A. CUMMINGS, *Mayor, Chairman ex officio.*ALBION A. PERRY, *President Common Council, ex officio.*

ANSEL LEWIS Webster Street; Office, Police Station.
 FRANK G. WILLIAMS Albion Street; " " "
 THOMAS CUNNINGHAM, *Sec'y*, Oak Street; " " "

CONSTABLES.

JAIRUS MANN. WM. D. HAYDEN.
 ROBERT R. PERRY. FRANK G. WILLIAMS.
 HORACE B. RUNEY. SAMUEL R. DOW.
 NEWELL F. CASWELL. C. C. CAVANAGH.
 CHAS. C. FOLSOM. ANSEL LEWIS.
 WM. H. BRINE. JOSEPH J. GILES.

JOHN S. McADOO.

FIELD DRIVERS.

CHARLES C. FOLSOM. JUDSON W. OLIVER.
 JOHN E. FULLER. GEORGE A. BODGE.
 JOHN HAFFORD. GEORGE W. BEAN.
 P. W. SKINNER. SAMUEL R. DOW.

DENNIS KELLY.

FENCE VIEWERS.

DAVID A. SANBORN. WARREN POLLARD. CHARLES D. ELLIOT.

POUND KEEPER.

CHARLES A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

NOAH HARDING, Sycamore Street.

SURVEYORS OF WOOD, BARK AND LUMBER.

ANSEL LEWIS.

SAMUEL T. LITTLEFIELD.

SURVEYOR OF STONE WORK.

JAMES R. HOPKINS.

SURVEYOR OF STONE, BRICK, AND PLASTER WORK.

ALFRED M. SIBLEY.

SURVEYOR OF MECHANICS' WORK.

CHARLES D. ELLIOT.

PUBLIC WEIGHERS.

D. W. DANFORTH.

PATRICK O'BRIEN.

JOHN C. COUSINS.

UNDERTAKERS.

HORACE B. RUNEY.

A. L. SANBORN.

PATRICK RAFFERTY.

WILLIAM A. FLAHERTY.

P. H. RAFFERTY.

H. D. RUNEY.

MARSH & CO.

POLICE DEPARTMENT.

M. C. PARKHURST, *Chief*.R. R. Perry, *Captain*.S. R. Dow, *Sergeant*.C. C. Folsom, *Sergeant*.

N. F. Caswell.

P. W. Skinner.

C. C. Cavanagh.

S. A. Brown.

S. C. Rollins.

John Hafford.

John E. Fuller.

Ivan Loughton.

Howard Lowell.

M. H. Kinsley.

F. W. Slade.

I. S. Campbell.

A. L. Staples.

Edward McGarr.

Albert Fisk.

J. B. Young.

J. W. Oliver.

G. A. Bodge.

George W. Bean.

Dennis Kelly.

M. C. Parkhurst, *Lock-up Keeper*.

