





# CITY OF SOMERVILLE

## ANNUAL REPORTS.



1880.

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# ADDRESS OF MAYOR BRUCE.

1880

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INAUGURAL ADDRESS  
OF HON. GEORGE A. BRUCE.

DELIVERED JAN. 5, 1880.

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GENTLEMEN OF THE CITY COUNCIL :

HAVING been unexpectedly elected to the office which I have held during the last two years, it again becomes my duty to make the customary address at the inauguration of the new city government. From past experience, I am led to the conclusion that the value of an inaugural address consists more in the fact that it enables one to present a concise and official statement of the condition of the city, for the information of our citizens generally, than from any effect it is likely to exercise on the conduct of the City Council during the year.

It is certainly not inappropriate that I should give expression to the strong feelings of gratitude which I entertain towards the people of the city for the generous confidence which they have placed in me, and to say that it will be my earnest and constant endeavor to make return therefor, by a faithful and conscientious discharge of the duties devolving upon me.

It is no slight honor that has been conferred upon each one of us, and I here invoke your hearty co-operation in carrying on the work during the present year, of making a record for this City Council that will enable it to stand in favorable comparison with any that have gone before, or those that will come after it.

You will pardon me, I trust, if in consequence of discussions that took place, and statements that were made, previous to our last municipal election, I enter somewhat at length in regard to the financial condition of the city, and a comparison of present expenditures with those of previous years ; not, however, for the purpose

of holding up the record of one government in unfavorable contrast with that of another, but simply to furnish such information as will enable people who desire to be just, to form a correct judgment upon the present management of the city. It is a matter of regret that, in consequence of our financial year beginning on the first day of January, it is not possible to present an exact statement; but the following figures will show, within a few dollars, the financial standing of the city on the first day of January, 1880:—

Funded Debt . . . . .	\$1,585,000 00
Temporary Loans . . . . .	210,000 00

But to meet temporary loans there is due to the city, on account of uncollected taxes and assessments, a sum considerably in excess of \$210,000.

The funded debt is classified as follows:—

City Debt . . . . .	\$1,250,000 00
Water Loan . . . . .	335,000 00
Total . . . . .	<u>\$1,585,000 00</u>

The net funded debt of the city, including the Water Loan, is \$1,385,000, and is ascertained as follows:—

Gross Debt . . . . .	\$1,585,000 00
Less Sinking Funds . . . . .	198,000 00
Net . . . . .	\$1,385,000 00
If we deduct from this the Water Loan . . . . .	335,000 00
(The annual interest on which will, in a short time, be met from the income from water without taxation), leaves net . . . . .	<u>\$1,050 000 00</u>

There has been paid the past year:—

Bonds maturing in July and October cancelled . . . . .	\$11,854 00
By contributions to Sinking Funds from appropriations . . . . .	45,525 00
Decrease of debt in 1879 . . . . .	<u>\$57,379 00</u>

In 1875 our funded debt was \$1,571,854. To this sum, in 1876, was added a loan of \$35,000 for the construction of a trunk sewer to West Somerville, which made the funded debt \$1,606,854, which marks the highest point of our indebtedness. In 1877 a bond for

\$10,000 was paid, and another of the same amount for the water works was issued, making in effect no change. In 1878 a bond for \$10,000 was paid, and in 1879 bonds amounting to \$11,854, and during the past two years no new debt has been created. In addition to this, in 1876, the sinking fund was established, and for the last four years the sum of \$45,000 has been raised annually by taxation, and contributed thereto, which, on the thirty-first day of December, 1879, amounted, with interest accumulations thereon, to \$198,000, all safely invested in the bonds of our own city. It will thus be seen that since the first of January, 1876, and during the period of greatest distress and depression that this country has ever known, we have not only met the current expenses of the city, but have cancelled and paid bonds amounting to \$21,854, and have contributed the sum of \$198,000 towards the payment of the debt, now in the hands of our commissioners; and this, too, as I confidently believe, while at the same time every department of the city has been kept in a most efficient condition.

I find that from the establishment of the city in 1872, until the year 1876, the current expenses were increasing each year, — from \$266,000 in 1872, to \$479,450 in 1875, — and during the same period the funded debt was raised from \$593,349 to \$1,571,854.

From the books of the treasurer I have compiled the following table showing our expenditures each year to the present: —

1872.	Current expenses . . . . .	\$266,000 00
	Increase of funded debt . . . . .	50,000 00
	Total expenditure . . . . .	<u>\$316,000 00</u>
1873.	Current expenses . . . . .	\$348,900 00
	Increase of funded debt . . . . .	206,000 00
	Total expenditure . . . . .	<u>\$554,900 00</u>
1874.	Current expenses . . . . .	\$432,369 03
	Increase of funded debt . . . . .	570,500 00
	Total expenditure . . . . .	<u>\$1,002,869 03</u>
1875.	Current expenses . . . . .	\$479,450 00
	Increase of funded debt . . . . .	152,000 00
	Total expenditure . . . . .	<u>\$631,450 00</u>

1876.	Current expenses . . . . .	\$456,206 49
	Increase of funded debt . . . . .	35,000 00
		<u>\$491,206 49</u>
	From which deduct payment to sinking fund . . . . .	45,130 62
	Total expenditure . . . . .	<u><u>\$446,075 87</u></u>
1877.	Current expenses . . . . .	\$425,360 62
	Increase of funded debt . . . . .	
	From which deduct payment to sinking fund . . . . .	46,030 62
	Total expenditure . . . . .	<u><u>\$379,330 00</u></u>
1878.	Current expenses . . . . .	\$376,530 62
	Decrease of funded debt . . . . .	10,000 00
		<u>\$366,530 62</u>
	From which deduct payment to sinking fund . . . . .	45,880 62
	Total expenditure . . . . .	<u><u>\$320,650 00</u></u>
1879.	Current expenses . . . . .	\$328,875 00
	Decrease of funded debt . . . . .	11,854 00
		<u>\$317,021 00</u>
	From which deduct payment to sinking fund . . . . .	45,525 00
	Total expenditure . . . . .	<u><u>\$271,496 00</u></u>

From which it will be seen that in the period of four years the current expenses of the city have been reduced from \$479,450 to \$271,496, or nearly one half; or to make the comparison with 1872, the first year of our city government, with a population of about 16,000, and make a deduction for interest on account of the increased debt, it appears that the expenses were less by \$37,000 in 1879 than in 1872.

The following analysis of the appropriation for the past year will show the amount and purposes for which the same were raised.

Appropriations, 1879, which the City Council was obliged by law to make, and in expending which it had no control:—

Interest . . . . .	\$65,000 00
Schools . . . . .	76,500 00
Library . . . . .	1,200 00
Reduction of funded debt . . . . .	57,379 00



Support of poor . . . . .	\$13,000 00
Water maintenance . . . . .	13,000 00
Total . . . . .	<u>\$226,079 00</u>

Appropriations, 1879, under control of the City Council : —

Fire Department . . . . .	\$20,000 00
Health Department . . . . .	2,700 00
Highways . . . . .	28,000 00
Miscellaneous . . . . .	3,000 00
Police Department . . . . .	24,800 00
Public Park Maintenance . . . . .	1,200 00
Salaries . . . . .	16,450 00
Sewers . . . . .	7,500 00
Sidewalks . . . . .	2,500 00
Soldiers' Relief . . . . .	1,000 00
Street Lights . . . . .	7,500 00
Total : . . . . .	<u>\$114,650 00</u>

In a word, these figures show that for all purposes under its control, the appropriations by the City Council for the year 1879 were \$114,650 ; and with full confidence I maintain that it was not possible to carry through the business of our city, now numbering 26,000 people, for any less sum, and I believe the money has been wisely expended under most efficient and faithful public servants.

In my judgment, it will be necessary to raise more money the present year than was used the last year. With the expectation of a reduction in the valuation of the property of the city, the Finance Committee of last year reduced the various appropriations to the lowest possible figure, in order that the rate per thousand should be kept at a point that would not work injuriously to the holders of personal property. In four years the assessors have reduced the valuation of our taxable property from about \$32,000,000 to something less than \$19,000,000 ; and as the only effect of this action is to raise the rate, giving no relief whatever to the tax-payers, it seems to me that it is for the interest of all that a stop should now be made on our present valuation. It is not possible at this point to give an accurate estimate of the necessary increase in our appropriations, but it is safe to say that it will not be a large sum, and will not very perceptibly be felt by the owners of property. The larger

appropriation will not be demanded on account of any intended larger expenditures for current expenses, but to settle some old claims of long standing, and others likely to be closed during the year. The claims against Mr. Dickerman, and of others, for the extension of Highland Avenue, commenced when we were under a town government, have been decided against the city, resulting in a loss of \$8,186.84. It is also probable that the suit of William Sullivan, for the construction of the sewer to West Somerville, will be brought to a close, and the amount found to be due him will have to be provided for. These, with a few others of small amount which it is not necessary to particularize, will call for an extra appropriation of about \$25,000.

#### SCHOOLS.

As the care of our schools is placed by law in an entirely independent board, I have never thought it fitting to enter into any discussion in regard to them, in an address at the inauguration of the City Council. I will say, however, that after having been connected for two years with the School Committee, I am led to express the opinion that the great interest of the instruction of the children of our city is in the hands of most competent men, who are fully alive to the great questions now undergoing the test of popular discussion in regard to the best methods of instruction. It is certain that under the present management our schools will at least maintain the high standard they have already reached. For the last two years the Council has declined to appropriate the sum asked by the Board for support of the schools, and the result has been that each year has left us with a deficiency that has been made up in the next appropriation. There have been two reductions in the salaries of the teachers, and though not so large as the City Council seem to have desired, yet from a more intimate acquaintance with the School Board, I am certain the members are desirous of doing only what is for the best interests of the city. They are tax-payers as well as we; they are representatives of the people as well as we; and as the laws of the State have placed the responsibility in their hands, it would perhaps be better hereafter that the amount of money asked by the School Board should be granted.



There is one matter in connection with this subject, which is of immediate interest to you. The law has placed upon the city government the duty of supplying the necessary buildings to accommodate the schools. The School Board unanimously voted last year to make request of the City Council for the erection of a new school-house in the West Somerville district. I believe, after examination, you will be of the opinion that this request must be complied with. If so, it will be necessary to take action as soon as possible, that the building may be in process of erection in the early spring. It will be well to remember, however, that the cost must be raised by taxation, as the limit of our municipal indebtedness has now been reached, and no new loans can be made under existing laws. But this is no sufficient reason why suitable accommodations should not be provided for the education of our children. I would recommend that this question be considered as soon as possible, and if you find a necessity for action, that plans be prepared for a substantial, commodious, but not an unnecessarily costly building.

#### BRIDGES.

Two years ago the attention of the City Council was drawn to the condition of the bridges that were built and maintained by the railroad corporations, whose tracks run through our territory. A special committee was appointed, whose duty should be to urge the erection of new structures, and which resulted in the building of a new and substantial iron bridge by the Fitchburg Company on Washington Street, fifty-five feet in width; a much-needed improvement in that locality. Negotiations with the Lowell road were at the same time commenced, and that company is now erecting the finest bridge by far in our city; over their track at Medford Street, which will be completed in about two months. There are still remaining two bridges, one at School Street and one on Broadway, which mar the looks of the city, and travel on one of them, at least, is attended with real danger. The expense of building new ones at these points would be small as compared with the Medford Street bridge, and I think we should continue our negotiations with the Lowell road until the two unsightly and dangerous structures mentioned are removed.

It is but right to say that the representatives of the Fitchburg and Lowell Companies readily acceded to the requests of our committee, recognized at once the justness of their claims, and contracts were finally made that were deemed to be equitable to either side. There was an opinion, prevailing more or less, that as all of these bridges were originally built and have always been maintained by these corporations, this duty being placed upon them by statute, therefore the whole expense of the new ones should be paid by them. By law they are obliged to forever maintain them in the manner of their original construction; but when the city desires that they shall be rebuilt of a different width, to conform to the new lines or the old lines of a street, or to be placed in a new locality, then, and in all such cases, it is provided that the expense shall be divided between the road and the city; in case the parties themselves cannot agree, in such proportions as three commissioners shall decide and award. The expense and uncertainty of a commission has thus far been avoided.

#### WATER WORKS.

During the past year our citizens were sufferers to a considerable extent from the impurity of the Mystic water, but so far as I can learn, no danger to health was suffered by any person. It was a trouble which scientific men have not as yet been able to thoroughly explain, nor has a remedy been devised. So far as impurities have arisen from the drainage of tanneries flowing into the lake, but little trouble need be apprehended in the future, as the Boston Water Board have succeeded in turning all or nearly all into the sewer built two years ago for that purpose. To provide against such difficulties as were experienced last summer, the city of Boston has petitioned to the Legislature of 1880 for authority to lay pipes connecting Chestnut Hill Reservoir with the Mystic pumping station in this city, which would give us a supply from that source in case our own should fail or again become impure.

As there has been some discussion during the last year in the city government, and through the columns of the newspapers, in regard to our contract made with the city of Charlestown, now binding on the city of Boston, and as there appears to be some

misapprehension among our citizens in regard to it, perhaps a few words would not be out of place on this subject.

On the twenty-eighth day of September, 1868, the town of Somerville, through a committee consisting of Aaron Sargent, C. E. Rymes, R. A. Vinal, R. E. Demmon, and Cutler Downer, entered into a contract in writing with the city of Charlestown, by which the town of Somerville was to be supplied with water from Mystic Lake. The well-known ability and character of the gentlemen composing this committee is a sufficient guaranty that as favorable a contract was made as it was possible for them to make at that time. The city of Charlestown, the year previous, had entered into a contract with Chelsea, the terms of which were the same as our own, with one exception. The town of Somerville considered the question, and decided for itself that it was for its interest to make the contract it did, rather than enter into the doubtful experiment of an independent supply. In that respect I think the town acted wisely. If any one will take the trouble to examine into the history of the introduction of water into all the cities and towns of this Commonwealth, as I have done, and then follow up their history to the present time, for the purpose of seeing the expense, ordinary and extraordinary, with which they are attended from year to year, I am certain the idea of an independent supply for this city would not be entertained for a moment by any person of sound mind. But the question of an independent supply is not now an open question for us, for we have made a contract, solemnly entered into, from the terms of which we are not at liberty to recede, whether the same may now be considered favorable or unfavorable. It is difficult to believe that the Legislature of Massachusetts would grant the right to a city to take water from any of its lakes or streams, while that city was being supplied from another source, by a contract which it had entered into and was still binding upon it.

After the contract with Somerville, Charlestown entered into contracts for the supply of the town of Everett, and with Boston to furnish water to East Boston and Deer Island; and by supplying so large a quantity to these different cities and towns, and by the large growth of each, Charlestown began to receive an income more



than sufficient to pay its interest on the water debt, and to maintain their works in repair. — so large, indeed, that the net income over all expenditures in one year amounted to nearly \$100,000. A computation, however, would show that if the supply had been confined to Somerville alone, the income derived under our contract, and the income derived from water-takers in the city for which the Mystic Works were originally built, both combined, would not have been sufficient to meet the current expenses, including interest and repairs; or in other words, that the profit has accrued to Boston from the furnishing of water to so large a number of municipalities. As early as 1874 or 1875, the Water Board of Somerville began negotiations with that of Boston for a modification of our contract, with the view of securing to the city a larger per cent of the amount collected for our water supply. It was not claimed as a legal right, but placed on the equitable ground, that by the contract itself we obtained certain rights in the works themselves, by contributing towards the payment of the debt created for their construction; and as the net income was largely in excess of all present or probable future expenditures, it would only be just and fair to allow to our city now a higher per cent of the return payments to it, rather than wait until the debt was entirely extinguished, when we should be entitled to a new contract to be fixed by three disinterested commissioners, to be appointed by the Supreme Judicial Court, which, without doubt, would be much more favorable in its terms.

It was in this spirit, that, a year ago, I recommended the appointment of a special committee of the City Council to take this subject in charge; and the recommendation being accepted, a most efficient one was appointed, of which the president of the Board of Aldermen was chairman. This committee, after many interviews with the Water Board of Boston, reported back a contract in writing for the modification of the old one, which, though not so favorable as was desired, has been accepted on our part, and if ratified by the City Council of Boston, will return to the treasury of our city between \$6,000 and \$7,000 annually more than we have as yet received.

With this additional revenue, we shall, in course of two or three

years, be able to pay the interest on our water debt, and all expenses of keeping the works in repair; a condition of things which can be said of only one or two of the cities and towns of the Commonwealth, where it has been possible to obtain water at a small outlay from lakes and streams located in or running through their own territory. The only available source from which water could be taken for the uses of our city, except the Mystic, is the Shawsheen River, from which it could be obtained for but little if any less than \$2,000,000, the interest on which would yearly amount to a sum at least twice that we are now paying, to say nothing of the large expense for maintenance.

It has been urged against the action taken by the city, to which I have alluded, that the whole matter was in the hands of the Water Board, and the City Council had no authority or power to act. This is simply a mistake, which a moment's investigation on the part of any person would dissipate. The authority of the Water Board extends solely to the management of the constructed works; and any action by it in the premises under consideration, unless first authorized by the City Council, or afterwards ratified by it, would be a nullity, and of no binding force. The Boston Water Board, with similar powers to our own, first applied to their city government for authority to negotiate with our committee, which was duly granted, but the question of ratifying the contract was reserved, and we are still obliged to get the assent of that body before it will go into effect.

It has also been claimed that we are at the present time entitled to a new contract under the terms of the old one; but this position, I am satisfied, after considerable investigation, is not tenable. It is said that the debt for the construction of the Mystic Works has, in fact, been paid; but this conclusion is based upon a construction of the contract which, I apprehend, no court would ever uphold. Besides, this claim is one that would be strongly resisted by the city of Boston, and could only be determined after a long and expensive legal contest in our courts, and I do not think the city would be justified in taking steps in this direction, except on the advice of the most eminent legal authority. It is conceded that the city of Chelsea has the first right to make a claim for a

new contract, its own being of earlier date than ours. It would perhaps be thought the part of wisdom on our part to wait the result of a decision in favor of that city. But as my opinion is in conflict with that of a portion of our city, if it should be deemed wise by you to seek advice from such a source as I have indicated, it would be a pleasure to me have it done.

#### SUITS AT LAW.

At the beginning of the last year there were a large number of suits pending in the various courts of the State to which the city was a party: Most of these, however, grew out of the many assessments that were laid under the betterment law for the construction of streets and the Broadway Park. A large number of these, however, were settled during the year, and there is a fair prospect that in course of another twelve months our docket will be nearly clear. To prevent litigation, and save the bad feeling among our own citizens apt to be created thereby, the city offered a discount on the assessments levied for the building of the Public Park of twenty per cent, and a majority of the cases were settled on that basis. There are a few, involving the largest sums, that will soon be determined by a trial in court.

#### THE CITY TREASURER.

Early after the formation of the last city government, a good deal of unpleasant discussion arose in regard to the accounts of the City Treasurer and Collector of Taxes, which resulted in the employment of a skilled accountant, who has made a thorough and minute examination of all the official transactions of that officer, from 1872 to 1878, both years inclusive; and the result shows what no one before had reason to question, that his duties have been honestly and faithfully performed, and that every dollar of money belonging to the city, and coming to his hands, has been fully accounted for.

#### SEWERS.

The demand for sewers has been so great, that nearly three miles of brick and pipe sewer was laid in the city during the last summer



and fall. The amount of money expended was nearly \$30,000. It is, in my judgment, questionable whether we should continue at such an expenditure in this department. There is other work of equal importance, which we have delayed from year to year on economical grounds; and I think we should be cautious in granting petitions for sewers where large numbers of the abutters are protesting their inability to pay the assessment usually laid upon their estates.

#### THE POOR.

The overseers were granted \$13,000 the past year, and the appropriation was not exceeded. This department has been managed with commendable care, and a new system of accounts has been commenced, which cannot fail of having a beneficial effect.

#### HIGHWAYS.

That our streets are in good condition generally, and have been prudently cared for, is seen and acknowledged by all. It is believed that with the exception of Somerville Avenue, no large expenditure will be required on any one street; but with sixty-five miles of public ways, it is not easy to see how they can be properly cared for, and kept in a neat and desirable condition, for a less sum than the last appropriation of \$28,000.

#### POLICE AND FIRE DEPARTMENTS.

The force in the Police and Fire Departments remains the same as during the last two years, each having been reduced in 1878. Captain Parkhurst has been chief of the first-named since its organization, and no officer has co-operated with me more cheerfully to keep his department in an efficient condition, and to manage it in an economical manner. The force is a good one, and has discharged its duties in an acceptable manner. The number of fires and alarms during the year has been small, and the loss of property trifling. The department is well equipped and provided, and in an improved state of discipline. I have no suggestions to make in regard to either of these departments.

Gentlemen of the City Council, I have now given a general summary of the condition of the city in its various departments, with

only a few suggestions for the future. There is but little new work that would be advisable for us to enter upon. Some needed improvements it would, perhaps, be wise for us to defer. There is but a word more that I desire to say. It is not expected you will all think alike on the many questions that will come before you during the present year. It is not desirable that either branch should have a leader whose voice is to be obeyed and whose suggestions are to be followed. Each member has been elected with the expectation that he is to use his own judgment,—formed, of course, after proper deliberation. It does not add to the good name of our city, or to its reputation at home or abroad, to lightly make charges of misconduct against your fellow-members, or any public servant, or to carry on discussions with the thoughtlessness and levity that might be pardonable in a society where boys first begin to exercise their vocal organs in debate. This is a city, and for the time being its good name has been placed in your hands to guard and safely keep. What you do and what you say is not confined within the walls of your rooms. The public hears it, and what is said often has as much effect on the prosperity of the city as that which you may do. You should consider well your language as well as your votes. Say nothing and do nothing that can bring dishonor on your city. Say that and do that only which will bring to her credit. The reputation of men should be held as sacred as property, and no one has the right lightly to deal with either. Take up the duties that have devolved upon you, and perform them in such a manner that the common speech of men shall be that your honors have been well conferred.



TREASURER'S  
NINTH ANNUAL REPORT

OF THE

FINANCIAL CONDITION

OF THE

CITY OF SOMERVILLE.

## CITY OF SOMERVILLE.

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IN BOARD OF MAYOR AND ALDERMEN, Jan. 25, 1881.

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

CHARLES E. GILMAN, *Clerk.*

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IN COMMON COUNCIL, Jan. 26, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

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IN COMMITTEE ON FINANCE, Feb. 14, 1881.

The Committee on Finance, to whom was referred the annual report of the City Treasurer for the year ending Dec. 31, 1880, have carefully examined the same in connection with the books, warrants, and vouchers in the Treasurer's office. They find the report to be a correct and accurate account of the financial transactions of the city for the year 1880, and recommend that the same be accepted.

The books and accounts of the Treasurer are kept in a systematic and business-like manner, and are a credit to the city.

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IN BOARD OF MAYOR AND ALDERMEN, Feb. 22, 1881.

Report accepted, adopted, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

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IN COMMON COUNCIL, Feb. 23, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

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TREASURER'S OFFICE, Jan. 25, 1881.

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

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

There were no noticeable acquisitions the past year to the public property, and its value remains as on the 31st of December, 1879, at \$1,121,400.

During the year, bonds of the city amounting to \$154,500 became due, and their payment was provided for by the issue and disposal of new bonds for a like amount, leaving the funded debt the same as on the 31st of December, 1879, classified as follows: City loan, \$1,215,000 (\$60,000 payable in 1885, and \$1,155,000 payable in various sums at different times, but renewable for final payment in 1895); sewer loan, \$35,000 (payable in 1896); and water loan, \$335,000 (\$315,000 payable in various sums at different times, but renewable for final payment in 1905, \$10,000 payable in 1906, and \$10,000 payable in 1884 and 1904, — \$5,000 in each year, — but renewable for final payment in 1907); a total of \$1,585,000.

The contributions to the sinking funds of the city, which must continue to be \$45,525 annually, while the debt remains at the present sum, and which must be raised by taxation (\$2.26 of the \$19.10 on a thousand dollars' valuation the past year, having been for this purpose), will, with the interest accumulations thereto while in the custody of the Commissioners of the Sinking Funds, be sufficient, it is intended, to meet the debt at its several dates of final maturity.

This funded debt, of which more than a third part is indebtedness, or renewals of indebtedness incurred prior to the change

from a town to a city form of government, was contracted for the following-named purposes: Fire department, \$26,000; highways, \$257,000; miscellaneous (gravel lands, land intended for, but not converted to, school purposes, war loans, and undesignated loans of the town, renewed by the city), \$295,000; police station, \$50,000; public park, \$200,000; school-houses, \$155,000; sewers, \$227,000; sidewalks, \$40,000; and water works, \$335,000. The rates of interest on the debt are:  $6\frac{1}{2}$  per cent on \$761,500; 6 per cent on \$135,000;  $5\frac{1}{2}$  per cent on \$191,000; and 5 per cent on \$497,500.

The assets of the city available for the payment of its unfunded liabilities are: Taxes, \$153,169.10; real-estate liens, \$13,714.99; sewer assessments, \$8,081.50; sidewalk assessments, \$667.55; water-service assessments, \$413.80; highway betterment assessments, \$2,831.75; public park betterment assessments, \$1,573.84; State of Massachusetts, on State aid and indigent soldiers and sailors' accounts, \$5,447.25; and cash, \$7 448.50: a total of \$193,348.28.

The unfunded liabilities are: temporary loans, \$210,000; school-house on Highland Avenue (unexpended balance), \$7,166.72; public library (unexpended balance), \$499.22; public park (contingent upon the collection of assessments), \$1,524.18; sundry persons, \$631.10; and overplus on tax sales (money received on sales of estates for non-payment of taxes, over amount of taxes, interest, and costs, and payable on demand to the owners of the property), \$131.00: a total of \$219,952.22.

Excess of unfunded liabilities over available assets, \$26,603.84.

The tax levy for 1880 was on a valuation of \$20,458,100, at \$19.10 on a thousand dollars' valuation, and 6,089 polls at \$2.00 each, amounting to \$402,927.71.

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

Fire Department, appropriation . . .	\$20,000 00	Expended \$20,763 50
Health Department, appropriation . . .	2,700 00	“ 3,442 35
Highways, including transfer from Sidewalks, appropriation . . .	31,033 25	“ 31,474 40
[\$1,500 additional was transferred from Public Park account.]		

Indigent Soldiers and Sailors (appropriation omitted by an oversight of the City Council) . . . . .			\$1,147 00
Interest, appropriation . . . . .	\$66,000 00		
Expended over and above \$8,868.47 received from the State as bank and corporation taxes, and carried to credit of this account by order of City Council . . . . .			67,273 16
Miscellaneous, appropriation \$2,500, less transfer of \$300 to Salaries . . . . .	2,200 00		
Expended over and above \$2,945.33 received for liquor licenses, and transferred to this account . . . . .			5,331 16
[\$4,000 additional was transferred from Public Park account.]			
Police, appropriation . . . . .	22,500 00	Expended	22,282 03
Police Station Incidentals, appropriation . . . . .	2,300 00	"	2,300 25
Public Library, appropriation . . . . .	1,500 00	"	1,500 00
[\$934.23 additional was received from the county on dog licenses, and the unexpended balance carried to account of 1881.]			
Public Park Maintenance, appropriation . . . . .	1,200 00	"	1,592 97
Salaries, including transfer from Miscellaneous account, appropriation . . . . .	16,750 00	"	16,961 00
School Contingent, appropriation . . . . .	8,000 00	"	9,103 45
School Fuel, appropriation . . . . .	3,200 00	"	3,249 19
School-House on Highland Avenue, appropriation . . . . .	4,186 80	"	4,186 80
[\$10,000 additional was transferred from Public Park account, and the unexpended balance carried to account of 1881.]			
School-House Repairs, appropriation . . . . .	5,800 00	"	6,556 50
School Teachers' Salaries, appropriation . . . . .	63,000 00	"	60,715 71
Sewers, appropriation . . . . .	7,500 00	"	11,078 29
Sidewalks, appropriation \$2,500, less transfer of \$1,033.25 to Highways . . . . .	1,466 75	"	1,466 75
Sinking Fund Contributions, appropriation . . . . .	45,525 00	Paid	45,525 00
Soldiers' Relief, appropriation . . . . .	1,000 00	Expended	552 81
Street Lights, appropriation . . . . .	7,500 00	"	7,765 70
Support of Poor, appropriation . . . . .	13,000 00	"	14,241 59



Water Maintenance, appropriation . . . . .	\$14,000 00		
Expended over and above \$12,999.79 received from the city of Boston, return on water rates . . . . .			\$12,333 35
Excess and Deficiency of 1879, appropriation . . . . .	21,197 82	Applied	21,197 82
State of Massachusetts, State tax, appropriation . . . . .	23,160 00	Paid	23,100 00
County of Middlesex, county tax, appropriation . . . . .	11,638 19	"	11,638 19
Overlay and Abatement, appropriation, . . . . .	6,569 90	Applied	11,622 60
Totals . . . . .	<u>\$402,927 71</u>		<u>\$418,461 54</u>

Excess of current expenses over appropriations . . . . .	\$15,533 83
In settlement of the contract for building the Beacon and Elm Street sewer, there was paid in addition to the sum to the credit of the account, Dec. 31, 1879 . . . . .	15,779 10
And abatements were made from highway betterment assessments, amounting to . . . . .	<u>791 01</u>
Increasing the deficit to . . . . .	\$32,103 94
Deducting the sums transferred from Public Park account to the Current Expenses, Highways, and Miscellaneous accounts, as already noted . . . . .	<u>5,500 00</u>
Leaves the net deficit . . . . .	\$26,603 94

Being the disparity between the available assets and the unfunded liabilities; and which must, by law, be provided for by taxation the present year.

Two of the largest Current Expenses appropriations, — Interest (mainly), and Sinking Fund Contributions (entirely), — exist as consequents upon the funded debt; and the sums paid and charged to these accounts the past year were, on

	Interest.	S. F. Contributions.
Fire Department debt . . . . .	\$1,330 00	\$780 00
Highway debt . . . . .	14,130 00	10,710 00
Miscellaneous debt . . . . .	17,067 50	8,850 00
Police Station debt . . . . .	3,250 00	1,500 00
Public Park debt . . . . .	12,550 00	6,000 00
School debt . . . . .	9,375 00	4,650 00
Sewer debt . . . . .	13,255 00	6,810 00
Sidewalk debt . . . . .	2,600 00	1,200 00
Water Works debt (charged in Water Maintenance account) . . . . .	20,375 00	5,025 00
Total . . . . .	<u>\$93,932 50</u>	<u>\$45,525 00</u>

The rates of taxation applicable to the several accounts were — on a thousand dollars' valuation — as follows : —

Fire Department . . . . .	\$0.99½	
Including proportion of Interest and Sinking Fund Contributions . . . . .		\$1.09½
Health Department . . . . .	.13½	
Highways . . . . .	1.54	
Including proportion of Interest and Sinking Fund Contributions . . . . .		2.70
Interest . . . . .	3.28	
Miscellaneous . . . . .	.11	
Including proportion of Interest and Sinking Fund Contributions . . . . .		1.31
Police . . . . .	1.12	
Police Station Incidentals . . . . .	.11½	
Including proportion of Interest and Sinking Fund Contributions . . . . .		.33
Public Library . . . . .	.07½	
Public Park Maintenance . . . . .	.06	
Including proportion of Interest and Sinking Fund Contributions . . . . .		.92
Salaries . . . . .	.83	
School Contingent . . . . .	.40	
School Fuel . . . . .	.16	
School-House on Highland Avenue . . . . .	.21	
School-House Repairs . . . . .	.29	
School Teachers' Salaries . . . . .	3.13	
Total for school purposes . . . . .	4.19	
Including proportion of Interest and Sinking Fund Contributions . . . . .		4.84
Sewers . . . . .	.37	
Including proportion of Interest and Sinking Fund Contributions . . . . .		1.30
Sidewalks . . . . .	.07	
Including proportion of Interest and Sinking Fund Contributions . . . . .		.24½
Sinking Fund Contributions . . . . .	2.26	
Soldiers' Relief . . . . .	.05	
Street Lights . . . . .	.37	
Support of Poor . . . . .	.65	
Water Maintenance, including Interest . . . . .	.69½	
Including proportion of Sinking Fund Contributions . . . . .		.94½
Excess and Deficiency, deficit in accounts of 1879 . . . . .	1.05½	
State of Massachusetts, state tax . . . . .	.85	
County of Middlesex, county tax . . . . .	.28	

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

Funded debt . . . . .	\$1,585,000 00
Excess of unfunded liabilities over available assets .	26,603 94
Amounting to . . . . .	\$1,611,603 94
The amount of the Sinking Funds, as per report of the Commissioners, is . . . . .	253,764 95
Leaving the net debt, Dec. 31, 1880 . . . . .	\$1,357,838 99
The gross cash receipts for the year, including the balance from the year 1879. were . . . . .	\$1,241,009 72
And the gross cash disbursements . . . . .	1,233,561 22
Leaving the sum of . . . . .	\$7,448 50
In the treasury at the close of the year.	<u><u>                    </u></u>

Respectfully submitted,

AARON SARGENT, *Treasurer.*



# APPENDIX TO TREASURER'S REPORT.

Table A.

PUBLIC PROPERTY, DEC. 31, 1880.

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
Lincoln School House Land (18,000 feet) and Building,	\$11,000 00	
Furniture,	500 00	
	<hr/>	11,500 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
Harvard School House Land (9,810 feet) and Building,	\$2,500 00	
Furniture,	100 00	
	<hr/>	2,600 00
<i>Amount carried forward,</i>		<hr/> \$396,700 00

<i>Amount brought forward,</i>		\$396,700 00
Edgerly 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
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
<i>Amount carried forward,</i>		<hr/> \$506,800 00

<i>Amount brought forward,</i>		\$506,800 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
Ledge Land on Bond Street (39,732 feet),		2,500 00
Holland Street (5 a., 6,806 feet),		12,000 00
Somerville Ave. (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
<i>Amount carried forward,</i>		<hr/> \$767,900 00

<i>Amount brought forward,</i>	\$767,900 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
Total value of Public Property,	<u>\$1,121,400 00</u>

Table B.  
FUNDED DEBT, DECEMBER 31, 1880.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
1871.				1881.		
April 1,	City,	School 3,	6½	April 1,	60,000	\$60,000
Oct. 1,	Water,	8 to 11,	"	Oct. 1,	10,000	40,000
"	City,	Town 6,	"	"	10,000	10,000
"	"	" 7,	6	"	2,000	2,000
"	"	" 8,	6½	"	11,500	11,500
"	"	School 4,	"	"	25,000	25,000
1874.						
Oct. 1,	Sidewalk,	9,	"	"	10,000	10,000
1872.				1882.		
April 1,	City,	1,	"	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
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
	<i>Amount</i>	<i>carried forward</i>	.....	.....	.....	\$880,000



Table B.—Continued.

Date.	Loan.	Number of Bonds	Rate per cent of Interest.	When due.	Denomination.	Amount.
	<i>Amount</i>	<i>brought forward</i>		.....	.....	\$880,000
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
1876.				1886.		
April 1,	"	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.				1889.		
Jan. 1,	"	57 to 65,	"	Jan. 1,	1,000	9,000
1880.						
Oct. 1,	"	46 to 54,	"	Oct. 1,	1,000	9,000
"	"	55,	"	1890.		
1881.				Oct. 1,	9,000	9,000
Jan. 1,	"	66 to 76,	"	1892.		
1878.				Jan. 1,	1,000	11,000
Jan. 1,	City,	335,	"	1895.		
"	"	336,	"	Jan. 1,	37,000	37,000
"	"	338,	"	"	1,000	1,000
1879.				"	2,000	2,000
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
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
1876.				1906.		
July 1,	"	30 & 31,	5½	July 1,	5,000	10,000
	<i>Total</i>	<i>Funded Debt</i>	.....	.....	.....	\$1,585,000

## Table C.

STATEMENT OF ACCOUNT, SHOWING APPROPRIATIONS,  
RECEIPTS, EXPENDITURES, ETC., TO DEC. 31, 1880.

## APPROPRIATIONS.

Credit.	
TAXES, amount assessed for current expenses,	\$361,559 62
PROPERTY and DEBT BALANCE, appropriated in 1880,	154,500 00
	<hr/>
	\$516,059 62
Debit.	
FIRE DEPARTMENT,	\$20,000 00
HEALTH DEPARTMENT,	2,700 00
HIGHWAYS,	30,000 00
INTEREST,	66,000 00
MISCELLANEOUS,	2,500 00
POLICE,	22,500 00
POLICE STATION INCIDENTALS,	2,300 00
PUBLIC LIBRARY,	1,500 00
PUBLIC PARK MAINTENANCE,	1,200 00
RENEWALS OF FUNDED DEBT,	154,500 00
SALARIES,	16,450 00
SCHOOL CONTINGENT,	8,000 00
SCHOOL-HOUSE REPAIRS,	5,800 00
SCHOOL-HOUSE ON HIGHLAND AVENUE,	4,186 80
SCHOOL FUEL,	3,200 00
SCHOOL TEACHERS' SALARIES,	63,000 00
SEWERS,	7,500 00
SINKING FUND CONTRIBUTIONS,	45,525 00
SOLDIERS' RELIEF,	1,000 00
STREET LIGHTS,	7,500 00
SUPPORT OF POOR,	13,000 00
SIDEWALKS,	2,500 00
WATER MAINTENANCE,	14,000 00
EXCESS AND DEFICIENCY (1879),	21,197 82
	<hr/>
	\$516,059 62



## CASH.

Credit.

COUNTY OF MIDDLESEX,	\$11,638 19
FIRE DEPARTMENT,	20,878 72
FUNDED DEBT,	154,500 00
HEALTH DEPARTMENT,	3,442 35
HIGHWAYS,	33,437 12
INDIGENT SOLDIERS AND SAILORS,	2,294 00
INTEREST,	86,652 91
LIQUOR LICENSES,	981 77
MISCELLANEOUS,	7,836 70
MISCELLANEOUS (WATERING STREETS),	3,939 67
POLICE,	23,682 43
POLICE STATION INCIDENTALS,	2,547 73
PUBLIC LIBRARY,	2,252 31
PUBLIC PARK,	411 70
PUBLIC PARK MAINTENANCE,	1,592 97
SALARIES,	16,961 00
SCHOOL CONTINGENT,	9,148 50
SCHOOL TEACHERS' SALARIES,	60,715 71
SCHOOL-HOUSE REPAIRS,	7,355 02
SCHOOL-HOUSE ON HIGHLAND AVENUE,	7,020 08
SCHOOL FUEL,	3,249 19
SEWERS,	21,052 58
SEWERS (BEACON AND ELM STREET SEWER),	22,422 02
SIDEWALKS,	2,765 60
SINKING FUND CONTRIBUTIONS,	45,525 00
SOLDIERS' RELIEF,	552 81
STATE AID,	4,442 50
STATE OF MASSACHUSETTS,	23,160 00
STREET LIGHTS,	7,975 70
SUNDRY PERSONS,	1,233 76
SUPPORT OF POOR,	16,704 19
TEMPORARY LOANS,	595,000 00
WATER MAINTENANCE,	29,895 73
WATER SERVICES,	2,313 26
	<hr/>
	\$1,233,561 22
BALANCE, to debit in account of 1881,	7,448 50
	<hr/>
<i>Amount carried forward,</i>	\$1,241,009 72

*Amount brought forward,*

\$1,241,009 72

	<b>Debit.</b>	
BALANCE, from 1879,		\$5,757 07
FIRE DEPARTMENT,		115 22
FUNDED DEBT,		154,500 00
HIGHWAYS,		1,841 17
HIGHWAY BETTERMENT ASSESSMENTS,		1,979 34
INTEREST,		19,703 37
LIQUOR LICENSES,		3,927 10
MISCELLANEOUS,		1,339 98
MISCELLANEOUS (WATERING STREETS),		2,032 78
OVERPLUS ON TAX SALES,		131 00
POLICE,		1,400 40
POLICE STATION INCIDENTALS,		247 48
PUBLIC LIBRARY,		1,212 89
PUBLIC PARK BETTERMENT ASSESS- MENTS,		13,318 77
REAL ESTATE LIENS,		6,315 92
SCHOOL CONTINGENT,		45 05
SCHOOL-HOUSE REPAIRS,		798 52
SEWERS,		145 79
SEWERS (BEACON AND KLM STREET SEWER),		229 40
SEWER ASSESSMENTS,		13,180 94
SIDEWALK ASSESSMENTS,		2,670 97
STATE OF MASSACHUSETTS, — INDIGENT SOLDIERS AND SAILORS,		302 50
STATE OF MASSACHUSETTS, — STATE AID,		4,425 25
STATE OF MASSACHUSETTS, — SUPPORT OF SOLDIERS AND SAILORS,		625 00
STREET LIGHTS,		210 00
SUPPORT OF POOR,		2,462 63
TAXES,		387,332 82
TEMPORARY LOANS,		595,000 00
WATER MAINTENANCE,		17,737 69
WATER SERVICES,		422 06
WATER SERVICE ASSESSMENTS,		1,598 61

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 \$1,241,009 72

## 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 1879,	\$21,197 82
HIGHWAYS, credit balance of account,	1,058 85
MISCELLANEOUS, " "	868 84
POLICE, " "	217 97
SCHOOL TEACHERS' SALARIES, credit balance of account,	2,284 29
SOLDIERS' RELIEF, credit balance of account,	447 19
WATER MAINTENANCE, credit balance of account,	1,666 65
BALANCE, to debit in account of 1881,	26,603 94
	<hr/> \$54,345 55

## Debit.

BALANCE, from 1879,	\$21,197 82
FIRE DEPARTMENT, debit balance of ac- count,	763 50
HEALTH DEPARTMENT, debit balance of account,	742 35
HIGHWAYS (CHAUNCEY AVENUE), debit balance of account,	105 88
HIGHWAYS (WINTHROP AVENUE), debit balance of account,	685 13
INDIGENT SOLDIERS AND SAILORS, debit balance of account,	1,147 00
INTEREST, debit balance of account,	1,273 16
OVERLAY AND ABATEMENT, debit bal- ance of account,	5,052 70
POLICE STATION INCIDENTALS, debit bal- ance of account,	25
<i>Amounts carried forward,</i>	<hr/> \$30,967 79

<hr/> \$54,345 55
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<i>Amounts brought forward,</i>	\$30,967 79	\$54,345 55
PUBLIC PARK MAINTENANCE, debit balance of account,	392 97	
SALARIES, debit balance of account,	211 00	
SCHOOL FUEL, debit balance of account,	49 19	
SCHOOL CONTINGENT, debit balance of account,	1,103 45	
SCHOOL-HOUSE REPAIRS, debit balance of account,	756 50	
SEWERS, debit balance of account,	3,578 29	
SEWERS (BEACON AND ELM STREET SEWER), debit balance of account,	15,779 10	
STREET LIGHTS, debit balance of account,	265 70	
SUPPORT OF POOR, debit balance of account,	1,241 56	
	<hr/>	\$54,345 55

#### FIRE DEPARTMENT.

##### Credit.

APPROPRIATIONS, amount assessed,		\$20,000 00
CASH, received of James R. Hopkins,		
amount received by him for old hose,	\$7 76	
Old junk,	5 00	
Old telegraph post,	21	
Manure,	102 00	
Amount charged in pay-roll and not paid,	25	
	<hr/>	115 22
		\$20,115 22
EXCESS AND DEFICIENCY, balance to debit of account,		763 50
		<hr/>
		\$20,878 72

##### Debit.

CASH, paid James R. Hopkins, chief engineer,	\$900 00	
N. C. Barker, assistant engineer,	400 00	
<i>Amounts carried forward,</i>	\$1,300 00	\$20,878 72

<i>Amounts brought forward,</i>	\$1,300 00	\$20,878 72
Theophilus Cunningham, clerk to chief engineer,	50 00	
Steamer engineer,	900 00	
Steamer fireman,	780 00	
Seven drivers,	5,439 84	
L. Frank Draper, substitute driver,	30 33	
J. Frank Walker, “ “	120 90	
T. Cunningham, “ “	30 33	
Steamer Engine Co.,	781 00	
John E. Wool Hose Co.,	706 00	
Winter Hill Hose Co.,	706 00	
Geo. H. Foster Hose Co.,	706 00	
Geo. O. Brastow Hose Co.,	706 00	
R. A. Vinal H. & L. Co.,	1,081 00	
City of Boston, water for hydrants,	1,176 00	
Water rates,	110 00	
N. Tufts & Son, grain,	532 58	
Hosmer, Crampton & Hammond, hay and straw,	658 69	
Foster, Weeks & Co., hay and straw,	129 58	
J. F. Ham, hay and straw,	23 77	
Hunneman & Co., repairs,	624 79	
Cook, Rymes & Co., “	83 35	
Seward Dodge, blacksmithing,	202 67	
J. G. Harmon, horseshoeing,	18 99	
E. C. Andrews, “	3 00	
Edward O'Brien, “	33 00	
Geo. McDormand, “	9 00	
J. W. Gerry, “	78 25	
Chas. Maguire, “	28 30	
H. Wellington & Co., fuel,	295 57	
Support of Poor account, fuel,	12 45	
Howard Snelling & Co., “	26 00	
F. Ivers, harness work,	8 00	
<i>Amounts carried forward,</i>	<u>\$17,391 39</u>	<u>\$20,878 72</u>



<i>Amounts brought forward,</i>	\$17,391 39	\$20,878 72
N. L. Pennock, harness work,	35 75	
M. S. Cahill, " "	7 55	
A. T. Colburn, " "	5 25	
Sabin & Page, " "	6 25	
T. B. Wilson, " "	50 42	
W. C. Smith, " "	5 00	
W. H. Bustin, horse collars,	10 00	
J. B. David, whips,	9 00	
J. Leland, wheelwright work,	13 85	
Hill & Langtry, brushes, etc.,	15 75	
Hewey, Skillins & Co., grain,	1 25	
S. F. Barker, emery cloth,	4 00	
Union Glass Co., globes,	1 88	
E. B. Badger & Sons, copper,	9 65	
Chas. Williams, Jr., bell,	4 50	
Wm. Cathcart & Co., repairs,	35 75	
L. D. Shaw, valve,	75 00	
D. W. Crocker, iron bars,	5 50	
H. A. Winship, fire hats,	21 25	
R. A. Vinal H. & L. Co., hat front,	1 00	
W. T. Henderson, repairing pung,	7 50	
Cambridgeport Diary Co., station- ery,	6 50	
L. W. Dow, carrots,	13 00	
Joel Goldthwait & Co., carpet,	88 41	
American Fire Hose Co., hose, etc.,	89 88	
Harry Thorpe, repairing hose,	1 00	
John S. Nason, horse,	125 00	
T. Spelman, soap,	12 00	
Thomas Button, shovel,	0 81	
J Breck & Sons, tools,	3 75	
W. C. Crane, premium of insurance,	11 25	
Clark Bennett, premium of insur- ance,	36 00	
<i>Amounts carried forward,</i>	\$18,105 09	\$20,878 72

<i>Amounts brought forward,</i>	\$18,105 09	\$20,878 72
H. W. Raymond, hardware, etc.,	21 52	
Howe & Flint, “	17 31	
C. Holmes & Son, “	22 08	
W. L. Snow, “	26 62	
Murdock Parlor Grate Co., hardware, etc.,	59 75	
T. C. Lothrop & Co., waste, etc.,	19 00	
J. A. Walcott, medical attendance,	5 00	
John L. Crafts, rope,	9 75	
O. J. Davis, telegraph poles,	29 75	
T. C. Joslyn, trees,	3 00	
M. D. Jones & Co., bronze,	90	
Geo. H. Cowdin, drugs,	1 45	
E. F. Foley, liniment,	50	
Thomas Hollis, vitriol, etc.,	155 79	
Smith, Doolittle & Smith, vitriol, etc.,	61 27	
W. Schuebeler, dry goods,	26 50	
J. H. Brooks, “ “	1 30	
J. Bartley, naphtha,	16 97	
Knowles Bros., naphtha,	1 00	
E. S. Bailey, oil,	4 85	
Lustralis Manufacturing Co., oil,	4 35	
D. Brooks, mason work,	113 10	
Fred Davis, whitening,	8 00	
Page & Littlefield, lumber,	15 10	
S. W. Fuller, “	2 73	
G. C. & C. J. Myers, repairing roof,	8 00	
Elijah Walker, carpenter work,	45 77	
N. C. Barker, “	4 95	
G. W. Trefren, “	17 36	
Albert Caswell, “	413 81	
R. A. Melvin & Co., “	153 69	
C. A. Legallee, plumbing,	3 42	
<i>Amounts carried forward,</i>	\$19,379 68	\$20,878 72

<i>Amounts brought forward,</i>	\$19,379 68	\$20,878 72
J. W. Legallee, paper hangings,	20 74	
M. A. Smith, " "	21 00	
Charles A. Mongan, laying drain,	23 25	
J. Q. Twombly, painting and glaz- ing,	44 83	
T. McIntire, Jr., painting,	12 50	
J. H. Hollis, " "	5 00	
D. J. Sullivan, " "	30 00	
W. S. Walker, glazing,	3 12	
Walworth Manufacturing Co., labor,	2 80	
Patrick Ryan, labor,	5 25	
J. E. Parsons, " "	1 50	
Richard Whalan, " "	1 50	
T. Cunningham, " "	16 00	
Fred Belanger, " "	4 70	
Lewis Putnam, veterinary ser- vices,	6 00	
Highways account, trap blocks,	17 50	
Henry Shaw, watching at fire,	2 00	
J. H. Sawin, " "	1 50	
W. J. London, expressing,	10 25	
Thorpe's Express, " "	2 50	
Bancroft's Express, " "	30	
Bishop & Bro., ladders, etc.,	20 11	
H. W. Burgess, salt, etc.,	6 18	
Geo. S. McCrillis, bedding, etc.,	11 50	
J. A. Durell, stove work,	4 90	
R. Warner & Co., dusters, etc.,	24 00	
J. F. Towle, soap, etc.,	2 38	
Brintnall & Osgood, shades,	26 00	
W. E. Melley, keys,	1 70	
Cambridge Gas-Light Co., gas,	362 83	
Charlestown Gas Co., gas,	173 00	
<i>Amounts carried forward,</i>	\$20,244 52	\$20,878 72

<i>Amounts brought forward,</i>	\$20,244 52	\$20,878 72
S. H. Stevens, washing,	22 25	
T. H. Daley, “	27 75	
C. M. Howard, “	19 88	
Mrs. Calvert, “	36 55	
Charles Trull, “	18 20	
Stephen Baldrey & Co., teaming,	3 00	
E. J. Brown, teaming,	2 00	
M. G. Crane & Co., telegraph materials,	156 42	
Abiel Pevey, calloud zincs,	43 73	
Boston Ice Co., ice,	10 00	
H. D. & W. S. Durgin, ice,	40 00	
R. H. Drake, coupling,	82	
S. D. Carter, refreshments,	100 00	
Sturtevant Bros., “	60	
Daniel Webster Engine Co., re- freshments,	30 00	
Mystic Hose Co, refreshments,	10 00	
J. E. Maynard, damage to horse and carriage,	75 00	
Sundry firemen, balance for ser- vices in 1878,	12 00	
A. L. Sanborn, carriage hire,	13 00	
H. A. Pratt, “ “	6 00	
Jairus Mann, “ “	4 00	
J. Pike, “ “	3 00	
	<hr/>	\$20,878 72
		<hr/> <hr/>

## FUNDED DEBT.

	Credit.	
BALANCE, from 1879,		\$1,585,000 00
CASH, received from sale of Bonds Nos. 346 to 352, City Loan,	\$94,500 00	
Bonds Nos. 36 to 76, Water Loan,	60,000 00	
	<hr/>	154,500 00
<i>Amount carried forward,</i>		\$1,739,500 00

*Amount brought forward,* \$1,739,500 00

**Debit.**

CASH, paid Town Loan Bonds Nos. 3 to 5,	\$81,500 00	
Sidewalk Loan Bond No. 8,	10,000 00	
Water Loan Bond Nos. 6 and 7,	60,000 00	
School Loan Bond No. 2,	3,000 00	
BALANCE, to credit in account of 1881,	1,585,000 00	
		\$1,739,500 00

**HEALTH DEPARTMENT.****Credit.**

APPROPRIATIONS. amount assessed,	\$2,700 00
EXCESS AND DEFICIENCY, balance to debit of account,	742 35
	\$3,442 35

**Debit.**

CASH, paid Geo. W. Cummings, remov- ing offal,	\$599 68	
Christopher Burke, removing offal,	208 33	
Highways account, collecting ashes,	968 73	
W. H. Brine, inspector of Board of Health,	500 00	
Geo. I. Vincent, clerk of Board of Health,	100 00	
Sundry persons, burying dead animals,	17 00	
P. W. Skinner, fumigating,	66 00	
Geo. H. Cowdin, peppermint tubes,	13 50	
J. O. Hayden & Co., printing and advertising,	73 30	
M. R. Warren, stationery,	5 25	
J. M. Whittemore, “	6 50	
		\$2,558 29
<i>Amounts carried forward,</i>		\$3,442 35



<i>Amounts brought forward,</i>	\$2,558 29	\$3,442 35
Somerville Post-Office, stationery,	1 59	
Photo-Electrotype Co., maps,	10 00	
Sturtevant Bros., sulphur,	4 88	
James Bartley, “	1 90	
Weeks & Potter, copperas,	5 35	
Thomas Hollis, glycerine,	1 00	
J. J. & M. F. Fenelon. pepper- mint tubes,	22 00	
J. F. Couch, vaccine virus,	7 50	
Ellen Powers, nursing,	6 79	
Elizabeth Copeland, nursing,	18 00	
F. J. Baxter, serving notices,	1 25	
Bancroft's Express, expressing,	30	
John Harris, half cost of culvert,	803 50	
	<hr/>	\$3,442 35
		<hr/> <hr/>

## HIGHWAYS.

## Credit.

APPROPRIATIONS, amount assessed,		\$30,000 00
CASH, received from —		
J. P. Prichard, amount received by him for sods from Waltham,		
Gravel land,	\$240 20	
Gravel,	1 00	
Constructing driveway,	7 60	
Health Department, collecting ashes, etc.,	968 73	
Owen Cunningham, sand,	25 00	
Middlesex Bleachery, gravel,	3 60	
Fire Department account, trap blocks,	17 50	
R. E. Woodward, changing drive- way,	6 50	
A. C. Winning, pasturage on city farm,	30 00	
<i>Amounts carried forward,</i>	<hr/> \$1,300 13	<hr/> \$30,000 00

<i>Amounts brought forward,</i>	\$1,300 13	\$30,000 00
E. A. Stone, constructing driveway,	7 50	
J. A. Durell, constructing driveway,	3 00	
Cambridge Savings Bank, constructing driveway,	7 00	
C. M. Wood, constructing driveway,	7 50	
B. F. Thompson, " "	11 60	
Geo. W. Prichard, gravel,	4 50	
Sidewalks account, "	226 40	
F. W. Slade, filling material,	10 00	
J. C. Dyer, " "	2 00	
S. D. Warren, filling material from Waltham gravel land,	30 00	
School House Repair account, gravel, etc.,	31 70	
Police Station Incidentals account, stone, gravel, etc.,	54 80	
Public-Park Maintenance account, labor,	17 00	
Miscellaneous (Watering Streets) account, painting carts and watering,	25 70	
Geo. McKenna, old junk, etc.,	19 34	
Arthur Moland, rent of tenement,	65 00	
E. L. Grant, " "	18 00	
	<hr/>	\$1,841 17
SIDEWALKS, transferred,		1,033 25
PUBLIC PARK, "		1,500 00
HIGHWAY BETTERMENT ASSESSMENTS, assessments levied,		121 55
		<hr/>
		\$34,495 97
	<b>Debit.</b>	
CASH, paid laborers,	\$15,057 92	
C. L. Heyward, gravel,	557 16	
	<hr/>	
<i>Amounts carried forward,</i>	\$15,615 08	\$34,495 97

<i>Amounts brought forward,</i>	\$15,615 08	\$34,495 97
Mrs. A. L. Rich, gravel,	5 88	
H. E. Willis, “	8 50	
J. J. Clapp, “	9 24	
Geo. W. Prichard, stone and team- ing,	595 00	
Jeremiah McCarty, stone,	4 08	
Owen Cunningham, teaming,	388 00	
D. McCarty, “	368 00	
D. D. Pike, “	5 00	
T. F. Crimmings, “	96 00	
John McCauley, “	8 00	
James Burke, “	96 00	
John Turner & Co., paving stone,	1,665 61	
W. M. Hadley, coal and cement,	131 06	
H. Wellington & Co., coal,	40 72	
G. M. Winslow & Co., “	7 38	
S. M. Fuller, “	2 70	
W. A. Sanborn & Co., wood,	7 00	
Boston Steam Grain Mill, feed,	55 80	
Am. Steam Feed Co, “	7 00	
N. Tufts & Son, grain,	352 93	
Knowles Bros., grain, etc.,	803 30	
John S. Nason, horses,	400 00	
C. P. Ladd & Co., straw,	58 37	
J. F. Ham, hay,	678 27	
Seward Dodge, blacksmithing,	244 50	
F. Dooris, “	39 91	
H. G. Collins, “	6 65	
B. F. Robinson, “	5 23	
J. G. Harmon, horseshoeing,	74 85	
Edward O'Brien, “	99 49	
M. Lynch, “	5 25	
Lamprell & Marble, “	1 75	
E. C. Cook, “	27 25	
<i>Amounts carried forward,</i>	\$21,913 80	\$34,495 97

<i>Amounts brought forward,</i>	\$21,913 80	\$34,495 97
Geo. McDormand, horseshoeing,	2 75	
Underhill Bros., repairing tools,	2 50	
Parker & Gannett, tools,	84 12	
Ames Plow Co., shovels,	10 13	
S. J. Wood, sharpening saws,	3 25	
S. M. Spencer, burning brands,	3 05	
George W. Morton, cart,	80 00	
Fred Belanger, repairing cart,	32 30	
Geo. H. Sampson, powder,	8 20	
S. W. Fuller, lumber,	246 87	
Wood, Bailey & Wood, lumber,	54 68	
E. Price, “	4 50	
O. S. Foster, brick,	71 50	
H. W. Raymond, hardware,	63 24	
W. L. Snow, “	1 67	
C. Holmes & Son, “	18 00	
A. T. Colburn, harness work,	32 09	
T. B. Wilson, “ “	17 25	
Hill & Langtry, “ “	75 33	
N. L. Pennock, “ “	18 13	
J. Leland, wheelwright work,	62 20	
Dodge, Gilbert & Co., hammers, chain, etc.,	19 36	
Robert Burlen, book-binding,	6 00	
City of Boston, water rates,	61 50	
Boston & Lowell R. R. Co., city's half cost of Medford Street bridge,	5,000 00	
Town of Medford, half cost main- taining Middlesex Avenue bridge in 1879,	409 15	
Somerville Horse Railroad Co., paving,	1,000 00	
Farrell Foundry and Machine Co., stone crusher, etc.,	746 09	
<i>Amounts carried forward,</i>	\$30,047 66	\$34,495 97

<i>Amounts brought forward,</i>	\$30,047 66	\$34,495 97
George R. Whiting, engine,	750 00	
Water Service account, pipe, etc.,	17 47	
Walworth Manufacturing Co., steam fittings, etc.,	27 16	
Ashcroft Manuf'g Co., tubes,	90	
G. W. Twitchell, belting,	2 54	
Boston Belting Co., "	32 77	
Geo. Woodman & Co., pipe,	53 50	
J. A. Durell, repairing "	75	
J. O. Hayden & Co., advertising,	13 50	
A. R. Gay & Co., stationery,	9 37	
M. R. Warren, "	1 75	
Hooper, Lewis & Co., "	85	
J. Q. Twombly, glazing,	4 08	
T. McIntire, painting,	13 88	
C. H. Tufts, "	7 00	
Moore, Smith & Co., robe,	12 00	
Barker & Tibbetts, expressing,	3 10	
E. R. Perham, "	1 95	
W. J. London, "	75	
Cyrus Hatch, soap,	1 50	
Stickney & Poor, ginger,	2 16	
H. I. Hall & Co., oil,	12 88	
Sturtevant Bros., "	15	
Thomas Hollis, medicine,	17 46	
C. H. Crane, "	8 85	
Heirs of John Runey, land taken for Gilman Street,	93 00	
S. G. Underhill, land taken for Gilman Street,	9 25	
Cook, Rymes & Co., pick handles, etc.,	20 33	
W. Hamilton, mowing city farm,	20 00	
James Forgie, horse collars,	21 00	
<i>Amounts carried forward,</i>	\$31,207 56	\$34,495 97



<i>Amounts brought forward,</i>	\$31,207 56	\$34,495 97
Town of Waltham, tax on gravel land,	131 75	
Town of Wakefield, tax on gravel land,	22 38	
Town of Winchester, tax on gravel land,	8 32	
Hancock Inspirator Co., inspirator,	30 00	
A. J. Harmon, posts,	31 17	
Buff & Berger, half cost of transit,	124 00	
R. A. Melvin & Co., carpenter work,	15 20	
Densmore & Brackett, window sashes, etc.,	6 10	
Skilton, Foote & Co, water cask,	5 00	
Middlesex Bleachery and Dye Works, ashes,	42 45	
J. Manning, freight and teaming,	84 95	
Lewis Putnam, veterinary services,	30 00	
Peabody & Whitney, brooms,	2 50	
J. Carter, broom stock,	2 00	
White & Wiley, paints and oil,	34 41	
C. A. Small, oil, etc.,	9 41	
J. P. Prichard, superintendent of streets,	1,249 92	
C. E. Prichard, clerk to superintendent of streets,	100 00	
Douglas Frazar, clerk to Committee on Highways,	300 00	
	<hr/>	
	\$33,437 12	
EXCESS AND DEFICIENCY, balance to credit of account,	1,058 85	
	<hr/>	
		\$34,495 97
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## HIGHWAYS (CHAUNCEY AVENUE).

## Credit.

EXCESS AND DEFICIENCY, amount to debit of account,	\$105 88
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## Debit.

HIGHWAY BETTERMENT ASSESSMENTS, abated,	\$105 88
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## HIGHWAYS (WINTHROP AVENUE).

## Credit.

EXCESS AND DEFICIENCY, amount to debit of account,	\$685 13
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## Debit.

HIGHWAY BETTERMENT ASSESSMENTS, abated,	\$685 13
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## HIGHWAY BETTERMENT ASSESSMENTS.

## Credit.

HIGHWAYS (CHAUNCEY AVENUE), abated,	\$105 88
HIGHWAYS (WINTHROP AVENUE), abated,	685 13
CASH, received of sundry persons, assessments,	1,979 34
BALANCE, to debit in account of 1881,	2,831 75
	<hr/>
	\$5,602 10

## Debit.

BALANCE, from 1879,	\$5,480 55
HIGHWAYS, assessments levied,	121 55
	<hr/>
	\$5,602 10

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## INDIGENT SOLDIERS AND SAILORS.

## Credit.

STATE OF MASS. (INDIGENT SOLDIERS AND SAILORS), one half of amount paid in 1880, charged to the State,	\$1,147 00
EXCESS AND DEFICIENCY, one half of amount paid to be borne by the city,	1,147 00
	<hr/>
<i>Amount carried forward,</i>	\$2,294 00

<i>Amount brought forward,</i>		\$2,294 00
	<b>Debit.</b>	
CASH, paid sundry persons,		\$2,294 00
<b>INTEREST.</b>		
	<b>Credit.</b>	
APPROPRIATIONS, amount assessed,		\$66,000 00
CASH, received on deposits in banks,	\$911 48	
On taxes,	7,624 09	
On tax titles released,	1,261 43	
On betterments,	100 40	
State Treasurer, Corporation and Bank Taxes,	8,868 47	
Blake Bros. & Co., premium on notes and bonds,	937 50	
		<u>19,703 37</u>
REAL ESTATE LIENS, interest on titles to the city on property deeded for non-payment of taxes and assessments,		144 22
EXCESS AND DEFICIENCY, balance to debit of account,		1,273 16
		<u>\$87,120 75</u>
	<b>Debit.</b>	
CASH, paid on Funded Debt: —		
\$55,000, 6 months, at 6½ per cent,	\$1,787 50	
\$656,000, 1 year, at 6½ per cent,	42,640 00	
\$115,000, 1 year, at 6 per cent,	6,900 00	
\$121,000, 1 year, at 5½ per cent,	6,655 00	
\$311,500, 1 year, at 5 per cent,	15,575 00	
		<u>\$73,557 50</u>
Less coupons unpaid,	440 00	
		<u>\$73,117 50</u>
SUNDRY PERSONS, coupons unpaid, as above,	440 00	
		<u>\$73,557 50</u>
<i>Amount carried forward,</i>		<u>\$87,120 75</u>

<i>Amount brought forward,</i>		\$87,120 75
CASH, paid on Temporary Loans:—		
Provident Inst. for Savings, on notes for \$220,000, 8 months 3 days, at $4\frac{3}{4}$ per cent,	\$7,053 74	
J. T. Glines & Co., on note for \$10,000, 4 months, at $5\frac{1}{2}$ per cent,	183 33	
A. Sargent, trustee, on notes for \$20,000, 4 months, at $5\frac{1}{2}$ per cent,	366 67	
\$20,000 on 8 months 3 days, at $4\frac{1}{16}$ per cent,	632 80	
A Sargent and E. E. Adams, trustees, on notes for \$10,000, 4 months, at $5\frac{1}{2}$ per cent,	183 33	
\$10,000 on 8 months 3 days, at $4\frac{1}{16}$ per cent,	316 40	
Boston Five Cents Savings Bank, on notes for \$75,000, 4 months, at $5\frac{1}{2}$ per cent,	2,750 00	
\$20,000, on 4 months, at 5 per cent, and 5 months 1 day, at $4\frac{1}{4}$ per cent,	689 88	
\$65,000, on 4 months 3 days, at $3\frac{1}{4}$ per cent,	721 77	
\$70,000, 2 months, at $3\frac{7}{8}$ per cent, and 12 days, at $4\frac{3}{8}$ per cent,	554 16	
Blake Bros. & Co., brokerage on loan of \$50,000,	83 33	
REAL ESTATE LIENS, allowed on tax titles released,	27 84	
	<u>\$13,563 25</u>	
ON FUNDED DEBT,	\$73,557 50	
ON TEMPORARY LOANS,	13,563 25	
	<u>                    </u>	\$87,120 75

## LIQUOR LICENSES.

	Credit.	
CASH, received for—		
First Class, 2 at \$250 each,	\$500 00	
5 at \$200 each,	1,000 00	
1 at	133 34	
1 at	166 67	
Third Class, 2 at \$38.54 each,	77 08	
Fourth Class, 14 at \$100 each,	1,400 00	
5 at \$50 each,	250 00	
5 at \$66.67 each,	333 35	
2 at \$33.33 each,	66 66	
	<hr/>	\$3,927 10
	Debit.	
CASH, paid State Treasurer, one fourth of amount received,	\$981 77	
MISCELLANEOUS, transferred,	2,945 33	
	<hr/>	\$3,927 10
		<hr/> <hr/>

## MISCELLANEOUS.

	Credit.	
APPROPRIATIONS, amount assessed,		\$2,500 00
REAL ESTATE LIENS, costs on titles to the city, on property deeded for non-payment of taxes and assess- ments,		149 15
CASH, received:—		
Costs on property sold for non- payment of taxes and assess- ments,	\$551 42	
Of the city clerk, fees for recording mortgages, etc., and for mar- riage certificates, etc.,	781 93	
Of Committee on Public Property, use of Tufts Street land,	5 00	
On account of street watering,	1 63	
	<hr/>	1,339 98
Amount carried forward,		<hr/> \$3,989 13



<i>Amount brought forward,</i>	\$3,989 13
PUBLIC PARK, transferred,	4,000 00
LIQUOR LICENSES, city's three fourths of sum received,	2,945 33
	<hr/>
	\$10,934 46

## Debit.

CASH, paid M. R. Warren, stationery,	\$300 42	
Hooper, Lewis & Co., “	32 00	
J. M. Whittemore & Co., “	67 00	
J. O. Hayden & Co., advertising and printing,	1,430 10	
Haskell Bros., advertising,	68 10	
J. A. Cummings & Co., printing,	27 00	
A. L. Haskell & Co., “	13 50	
Rockwell & Churchill, “	10 00	
Geo. I. Vincent, taking abstracts from deeds,	200 00	
S. C. Darling, amount paid court fees, etc.,	63 81	
Clerk of court, fees,	5 30	
Chas. E. Gilman, amount paid for stamps, etc.,	7 55	
Extra clerical assistance,	29 00	
C M. Blake, newspapers,	9 00	
Post-office department, rent of box two years,	8 00	
A. L. Sanborn, carriage-hire,	19 50	
L. H. Brown, “	4 00	
C. W. Daley, “	5 00	
Daniel A. and David A. Sanborn, verdict of jury for land taken, Prospect Street,	918 76	
Douglas Frazar, clerk of Commit- tee on State Aid and Indigent Soldiers and Sailors,	200 00	
Geo. F. Conant, services on Park Betterment plan,	6 89	
	<hr/>	
<i>Amounts carried forward,</i>	\$3,424 93	\$10,934 46

<i>Amounts brought forward,</i>	\$3,424 93	\$10,934 46
A. H. Folsom, photograph of park,	30 00	
C. G. Pope, taking abstracts from deeds,	9 84	
Robert L. Spear, services as expert, examining treasurer's books, balance,	12 00	
J. H. Bufford's Sons, printing bonds,	80 00	
C. H. Lockhart, return of deaths,	14 25	
H. B. Runey, "	32 75	
P. H. Rafferty & Co., "	19 50	
W. A. Flaherty, "	8 00	
J. W. Coveney, "	3 25	
John Reed, "	4 00	
F. G. Williams, return of births,	150 00	
Thomas Hollis, glycerine,	1 30	
J. J. & M. F. Fenelon, camphor,	80	
Geo. H. Cowdin, "	95	
H. D. & W. S. Durgin, ice two years,	107 80	
City of Boston, water rates,	50 00	
Cambridge Gas-Light Co., gas,	297 61	
Chas. Williams, Jr., rent of telephone,	67 50	
R. H. Drake, gas fixtures,	1 50	
E. S. Bailey, repairing clock,	1 00	
James Bartley, soap, matches, etc.,	13 27	
H. W. Raymond, hardware,	15 51	
W. Schuebeler, brushes, etc.,	2 52	
Howe & Flint, dusters, etc.,	15 08	
Murphy, Leavens & Co., dusters, etc.,	8 65	
H. Wellington & Co., fuel,	189 46	
<i>Amounts carried forward,</i>	\$4,561 47	\$10,934 46

<i>Amounts brought forward,</i>	\$4,561 47	\$10,934 46
Support of Poor account, wood,	33 95	
H. A. Davis, adjusting weights and measures,	6 50	
David Ford, witness fees, etc.,	6 40	
Chas. Robinson, Jr., court fees,	24 03	
S. H. Libby, clerk hire,	31 50	
C. C. Folsom, amount paid wit- nesses,	11 50	
Harrison & McLane, posting notices,	16 70	
Henry Shaw, posting notices,	3 00	
A. J. Wilkinson, engineer's rules,	4 75	
Frost & Adams, materials for city engineer,	26 13	
Buff & Berger, repairing instru- ments,	63 25	
Engineer's assistants, car fares,	16 02	
F. M. Tribou, stamp ribbon,	3 00	
McCrillis & Kendall, cushions,	22 50	
L. L. Wilde, use of hall,	10 00	
W. H. Whitcomb, sawing wood,	2 40	
Ellen Barry, washing,	2 00	
Walter S. Barnes, boxes,	1 50	
W. A. Orcutt, lightning rods,	3 75	
Burdett & Williams, spring,	2 25	
Decker & Co., awning,	18 00	
Seward Dodge, blacksmithing,	5 55	
W. S. Walker, oiling floors,	21 60	
B. Poole, legal services for Water Board,	300 00	
Post 139, G. A. R., for memorial day,	300 00	
W. J. London, expressing,	11 60	
Bancroft's Express, "	15	
<i>Amounts carried forward,</i>	\$5,509 50	\$10,934 46

<i>Amounts brought forward,</i>	\$5,509 50	\$10,934 46
E. D. Sawyer & Co., lumber,	16 05	
Ingalls & Kendricksen, repairing heating apparatus,	7 44	
S. J. Wood, repairing locks,	9 00	
G. W. Manning, labor on flag-staff,	21 00	
L Arnold, carpenter work,	18 25	
Chas. A. Spear, “	34 31	
J. C. Davidson, copying assessors’ valuation, and as doorkeeper,	50 00	
Labor,	14 00	
Robert Thompson, labor,	16 00	
J. M. Coburn, “	12 30	
H. F. Maynard, “	9 00	
R. L. Maynard, “	4 00	
Sewer Assessments account, sewer assessments on Tufts Street and Fountain Avenue,	255 78	
A. M. Sibley, mason work,	28 25	
E. F. Bowker, use of transit,	5 00	
H. A. Pratt, expenses of city gov- ernment to gravel lands,	139 00	
Expenses in steamer “Empire State,”	54 00	
S. D. Carter, refreshments,	33 00	
Jairus Mann, amount paid by him for refreshments,	7 50	
For book,	68	
For carriage hire,	4 00	
For washing,	15 00	
For witness fees,	17 00	
Watching,	62 50	
Patrick Donnelly, compensation for damages on highways,	125 00	
W. F. Clement, compensation for damages on highways,	100 00	
<i>Amounts carried forward,</i>	\$6,567 56	\$10,934 46

<i>Amounts brought forward,</i>	\$6,567 56	\$10,934 46
F. D. Woodbridge, compensation for damage to horse,	50 00	.
Mary M. Stevens, compensation for damages in Police Building,	41 83	
Sturtevant Bros., poultry for Thanksgiving distribution,	149 09	
John C. Magoun, sealer of weights and measures,	100 00	
Charles A. Small, pound-keeper,	25 00	
James Deshon, return on tax titles,	60 00	
Geo. W. Estabrook, return on tax titles,	145 13	
Pauline Simpson, return on tax titles,	110 32	
J. French & Sons, return on tax titles,	318 77	
C. E. Rymes, services as appraiser,	20 00	
Albert Caswell, " " "	15 00	
Albert Caswell, services as expert,	25 00	
J. P. Loring, " " "	25 00	
D. Brooks, " " "	25 00	
B. F. Thompson, " " "	25 00	
Thos. Cunningham, " " "	10 00	
R. A. Vinal, " " "	10 00	
Ward officers of 1879,	15 00	
Ward officers of 1880,	99 00	
	<hr/>	
	\$7,836 70	
SALARIES, transferred,	300 00	
REAL ESTATE LIENS, costs deducted in settlement of tax titles,	22 03	
MISCELLANEOUS (WATERING STREETS), cost to the city for watering,	1,906 89	
EXCESS AND DEFICIENCY, balance to credit of account,	868 84	
	<hr/>	
		\$10,934 46
		<hr/> <hr/>



## MISCELLANEOUS (WATERING STREETS).

## Credit.

CASH, received of sundry persons as their proportional part of the cost of watering,	\$2,032 78
MISCELLANEOUS, cost to the city for watering,	1,906 '89
	<hr/>
	\$3,939 67

## Debit.

CASH, paid Chas. Faulkner, watering,	\$415 45
J. Murphy, “	412 85
J. McCauley, “	438 20
George W. Prichard, “	396 20
J. F. Elkins, “	386 95
Henry Gray, “	413 70
Highways account, painting carts and watering,	25 70
White & Wiley, paints,	7 52
Seward Dodge, blacksmithing,	18 18
T. McIntire, Jr., lettering cart,	6 00
Fred Belanger, blacksmithing,	75
F. Dooris, “	4 72
G. W. Cummings, labor on cart,	2 45
C. Holmes & Son, “ “	7 75
J. Leland, repairing cart,	4 35
W. T. Henderson, “	15 75
James Boyd & Sons, hose,	25 00
T. B. Wilson, repairing hose,	4 30
Walworth Manuf. Co., watering posts,	20 00
Water Service account, pipe,	88 45
J. O. Hayden & Co, printing,	7 20
City of Boston, water,	1,138 20
J. P. Prichard, superintendence,	100 00
	<hr/>
	\$3,939 67

## OVERLAY AND ABATEMENT.

## Credit.

TAXES, amount added to the amount of the taxes assessed, as fractional divisions, for conven- ience in the apportionment,	\$6,569 90
EXCESS AND DEFICIENCY, balance to debit of account,	5,052 70
	<hr/> \$11,622 60

## Debit.

TAXES, for abatement on taxes,	\$11,622 60
	<hr/> <hr/>

## OVERPLUS ON TAX SALES.

## Credit.

CASH, received over taxes and costs on real estate sold for non-payment of taxes for 1878,	\$131 00
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## Debit.

BALANCE, to credit in account of 1881,	\$131 00
	<hr/> <hr/>

## POLICE.

## Credit.

APPROPRIATIONS, amount assessed,	\$22,500 00
CASH, received of Lebbeus Stetson, Clerk of the Court, for officers' fees, etc.,	1,400 40
	<hr/> \$23,900 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,	915 00	
Geo. W. Bean,         “	915 00	
N. F. Caswell,       “	915 00	
Isaac S. Campbell, “	915 00	
C. C. Cavanagh,     “	915 00	
Albert Fisk,         “	915 00	
J. E. Fuller,         “	915 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$10,805 00	<hr/> \$23,900 00

<i>Amounts brought forward,</i>	\$10,805 00	\$23,900 40
John Hafford, patrolman,	915 00	
M. H. Kingsley, “	915 00	
Ivan Loughton, “	915 00	
Howard Lowell, “	915 00	
John H. McGarr, “	915 00	
Edward McGarr, “	915 00	
J. W. Oliver, “	915 00	
S. C. Rollins, “	803 75	
F. W. Slade, “	915 00	
P. W. Skinner, “	915 00	
A. L. Staples, “	915 00	
S. H. Whitcomb, “	915 00	
J. B. Young, “	915 00	
B. F. Sheridan, patrolman (special),	120 00	
Wm. H. Denton, patrolman (special),	2 00	
M. C. Parkhurst, lock-up keeper,	200 00	
A. L. Sanborn, board of horse,	208 62	
S. Dodge, horseshoeing,	18 50	
Sturtevant Bros., crackers, cheese, etc.,	39 94	
J. Bartley, crackers, cheese, etc.,	14 84	
J. J. Giles, washing, etc.,	12 00	
Guild & Delano, repairing badge,	75	
C. M. Blake, newspapers,	18 75	
Geo. H. Cowdin, floor wax, etc.,	8 56	
Sullivan & Co., plumbing,	2 75	
H. A. Pratt, carriage hire,	2 00	
L. H. Brown, “	41 50	
Hewey, Skillins & Co., team- ing,	1 00	
A. M. Prescott, teaming,	6 00	
J. O. Hayden & Co., printing,	5 25	
<i>Amounts carried forward,</i>	\$23,291 21	\$23,900 40

<i>Amounts brought forward,</i>	\$23,291 21	\$23,900 40
Haskell Bros., advertising	15 00	
Luke Mullen, labor,	1 00	
S. D. Carter, meals furnished,	25 50	
Bent & Bush, wreaths,	4 00	
H. D. & W. S. Durgin, ice,	42 00	
Scovill Manuf. Co., buttons,	11 25	
Sam'l A. Fowler, harness work,	2 00	
N. L. Pennock, " "	13 25	
W. F. Smith, analysis,	10 00	
J. W. Brine, bedding and washing,	26 77	
S. R. Dow, transportation,	5 90	
J. H. McGarr, " "	3 90	
C. C. Cavanagh, amount paid for printing, etc.,	6 96	
C. C. Folsom, expenses commit- ting prisoners, etc.,	11 15	
Chas. Williams, Jr., constructing telephone, rental, etc.,	162 00	
Telephone Despatch Co., commu- nications,	21 54	
A. H. Carvill, medical attendance,	2 00	
E. L. White, " "	5 00	
W. A. Bell, " "	6 00	
W. W. Dow, " "	16 00	
	<hr/>	
	\$23,682 43	
EXCESS AND DEFICIENCY, balance to credit of account,	217 97	
	<hr/>	\$23,900 40
		<hr/>
<b>POLICE STATION INCIDENTALS.</b>		
	<b>Credit.</b>	
APPROPRIATIONS, amount assessed,		\$2,300 00
CASH, received of—		
Post 139, G. A. R., rent of hall to Oct. 1,	100 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$100 00	\$2,300 00

<i>Amounts brought forward,</i>	\$100 00	\$2,300 00
Committee on Public Property, amount received by them for use of hall,	60 48	
D. J. Flynn, use of hall,	5 00	
T. D. Locke, “	26 00	
Frank H. Fay, “	18 00	
Oasis Lodge, “	12 00	
M. S. Rowe, “	21 00	
Co-operative Savings Fund and Loan Association, use of hall,	5 00	
	<hr/>	247 48
EXCESS AND DEFICIENCY, balance to debit of account,		25
		<hr/>
		\$2,547 73

**Debit.**

CASH, paid J. J. Giles, janitor,	\$137 72	
W. D. Hayden, “	583 33	
Oil for carburetta,	160 95	
Boston Gas Improvement Co., carburetta,	400 01	
Cambridge Gas Light Co., gas,	346 10	
H. Wellington & Co., fuel,	315 60	
City of Boston, water rates,	68 00	
W. Schuebeler, towels, etc.,	2 95	
Sturtevant Bros., soap, sawdust, etc.,	9 42	
H. W. Raymond, hardware, dusters, etc.,	26 84	
Howe & Flint, ash barrels, hard- ware, etc.,	102 20	
Geo. H. Cowdin, sponge and med- icine,	6 88	
Flynn Bros., cleaning carpets,	23 32	
	<hr/>	
<i>Amounts carried forward,</i>	\$2,183 32	\$2,547 73



<i>Amounts brought forward,</i>	\$2,183 32	\$2,547 73
O. H. Webber, carpet sweeper,	3 00	
Murphy, Leavens & Co., brushes,	1 25	
S. J. Wood, fitting keys,	1 00	
W. C. Crane, premium of insurance,	20 00	
J. J. & M. F. Fenelon, wax,	2 50	
J. Bartley, alcohol,	2 73	
Underhill Bros., repairing lawn mower,	1 50	
W. J. London, expressing,	50	
Highways account, stone, gravel, etc.,	54 80	
A. M. Sibley, mason work,	2 75	
E. Cahill, whitening,	35 00	
Edward Earley, slating,	10 90	
L. Arnold, carpenter work,	41 25	
C. A. Legallee, plumbing,	7 73	
J. Q. Twombly, painting and glazing,	179 50	
	<hr/>	\$2,547 73
		<hr/> <hr/>

## PROPERTY AND DEBT BALANCE.

### Credit.

RENEWAL OF FUNDED DEBT, amount of debt paid in 1880,	\$154,500 00
BALANCE to debit in account of 1881,	463,600 00
	<hr/>
	\$618,100 00

### Debit.

BALANCE, from 1879,	\$463,600 00
APPROPRIATIONS,	154,500 00
	<hr/>
	\$618,100 00
	<hr/> <hr/>

## PUBLIC LIBRARY.

	Credit.	
BALANCE, from 1879,		\$38 64
APPROPRIATIONS, amount assessed,		1,500 00
CASH, received of—		
The county treasurer, return on dog licenses for 1879,	\$934 23	
The librarian, for fines,	231 92	
Catalogues,	46 74	
	<hr/>	1,212 89
		<hr/> \$2,751 53
	Debit.	
CASH, paid Lockwood, Brooks & Co., books, etc.,	\$508 01	
Estes & Lauriat, books, etc.,	209 76	
Little, Brown & Co., books,	6 00	
F. P. Robinson, “	4 00	
D. R. Bowker, Library Journal,	5 00	
Ira Bradley, binding books,	11 40	
W. J. Wilson, “ “	3 60	
Babb & Stephens, printing,	202 75	
J. O. Hayden & Co., “	5 40	
F. M. Tribou, repairing stamp,	2 00	
J. M. Jacobs, lithogram,	3 75	
Fairbanks, Brown & Co., press,	7 60	
W. J. London, expressing,	20 35	
Bancroft's Express, “	40	
Harriet A. Adams, librarian,	700 00	
Lizzie Stevens, assistant librarian,	350 00	
Georgette Colman, “ “	121 32	
L. A. Manning, “ “	24 31	
Ernest Merritt, “ “	34 55	
E. Maynard, “ “	22 75	
F. L. Maynard, “ “	9 36	
	<hr/>	
	\$2,252 31	
BALANCE, to credit in account of 1881,	499 22	
	<hr/>	
		<hr/> \$2,751 53

## PUBLIC PROPERTY.

	Credit.	
BALANCE, to debit in account of 1881,		\$1,121,400 00
	Debit.	
BALANCE, from 1879,		<u>\$1,121,400 00</u>

## PUBLIC PARK.

	Credit.	
BALANCE, from 1879,		\$31,611 11
	Debit.	
CASH, paid C. H. Montague, Jr., stenographer in betterment cases,	\$92 10	
J. E. Eldredge, transporting jury,	14 00	
Edward J. Jenkins, taking depositions,	17 20	
Wilde & Teele, and John Perry, services in suit,	38 00	
Jairus Mann, amount paid witnesses,	54 40	
C. H. W. Wood, expert,	56 00	
Hermann Grundel, “	25 00	
Henry A. May, “	25 00	
Cooper & Kelso, “	25 00	
J. F. C. Hyde, “	25 00	
C. W. Sawyer, “	20 00	
Quincy A. Vinal, “	10 00	
S. F. Rugg, “	10 00	
	<u>\$411 70</u>	
SCHOOL-HOUSE ON HIGHLAND AVENUE, transferred,	10,000 00	
HIGHWAYS, transferred,	1,500 00	
MISCELLANEOUS, “	4,000 00	
PUBLIC PARK BETTERMENT ASSESSMENTS, abated,	14,175 23	
BALANCE, to credit in account of 1881,	1,524 18	
	<u>                    </u>	<u>\$31,611 11</u>

## PUBLIC PARK BETTERMENT ASSESSMENTS.

## Credit.

CASH, received of sundry persons, as-		
assessments,	\$13,318	77
PUBLIC PARK, abatements,	14,175	23
BALANCE, to debit in account of 1881,	1,573	84
		<hr/>
		\$29,067 84

## Debit.

BALANCE, from 1879,		\$29,067 84
		<hr/> <hr/>

## PUBLIC PARK MAINTENANCE.

## Credit.

APPROPRIATIONS, amount assessed,		\$1,200 00
EXCESS AND DEFICIENCY, balance to debit of ac-		
count,		392 97
		<hr/>
		\$1,592 97

## Debit.

CASH, paid M. W. Murphy, labor, etc.,	\$804	89	
T. Murphy, Jr., labor,	49	50	
Dennis McCarty, “	24	00	
Dennis Foley, “	167	25	
M. Delurey, “	11	75	
John Quinlan, “	9	75	
James Mooney, “	3	00	
Highways account, “	17	00	
Timothy Murphy, plants,	47	00	
Martin Gill, use of horse,	41	14	
Geo. W. Prichard, loam and sods,	228	25	
T. F. Crimmings, loam and gravel,	125	00	
J. A. Durell, hardware, etc.,	15	48	
Underhill Bros., sharpening tools,	2	30	
J. Breck & Sons, repairing lawn mower, and seeds,	30	14	
Chelmsford Foundry Co., repair- ing fence,	10	00	
		<hr/>	
Amounts carried forward,	\$1,586	45	\$1,592 97

<i>Amounts brought forward,</i>	\$1,586 45	\$1,592 97
Fred Belanger, repairing cart,	1 80	
J. C. Dyer, glazing,	2 12	
E. R. Perham, expressing,	2 60	
	<hr/>	<u>\$1,592 97</u>

## REAL ESTATE LIENS.

## Credit.

CASH, received of sundry persons for tax titles released,		\$6,315 92
INTEREST, deducted,		27 84
MISCELLANEOUS, costs deducted,		22 03
BALANCE, to debit in account of 1881,		13,714 99
		<hr/>
		\$20,080 78

## Debit.

BALANCE, from 1879,	\$18,822 21	
TAXES, titles deeded to the city for non-payment of taxes,	965 20	
INTEREST, on titles deeded to the city,	144 22	
MISCELLANEOUS, costs on titles deeded to the city,	149 15	
	<hr/>	<u>\$20,080 78</u>

## RENEWAL OF FUNDED DEBT.

## Credit.

APPROPRIATIONS, amount authorized by loans,		\$154,500 00
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## Debit.

PROPERTY AND DEBT BALANCE, amount of the funded debt paid in 1880,		\$154,500 00
		<hr/>
		<u>\$154,500 00</u>

## SALARIES.

## Credit.

APPROPRIATIONS, amount assessed,		\$16,450 00
MISCELLANEOUS, transferred,		300 00
EXCESS AND DEFICIENCY, balance to debit of account,		211 00
		<hr/>
<i>Amount carried forward,</i>		\$16,961 00



*Amount brought forward,* \$16,961 00

**Debit.**

CASH, paid George A. Bruce, Mayor,	\$900 00	
Chas. E. Gilman, city clerk,	2,100 00	
Aaron Sargent, city treasurer,	3,000 00	
Treasurer of Commissioners		
of Sinking Funds,	200 00	
George A. Kimball, city engineer,	1,900 00	
S. C. Darling, city solicitor,	1,800 00	
J. F. Couch, city physician,	700 00	
D. Frazar, city auditor,	350 00	
D. Frazar, clerk of Common		
Council,	200 00	
Geo. I. Vincent, clerk to assessors		
and committees,	1,100 00	
Jairus Mann, city messenger,	1,300 00	
Thomas Cunningham, assessor,	500 00	
F. G. Williams,                   “	500 00	
S. H. Libby,                       “	500 00	
B. F. Thompson, assistant assessor,	200 00	
George Smith,                   “       “	200 00	
R. A. Melvin,                   “       “	200 00	
S. H. Holland,                   “       “	200 00	
Engineer's assistants,	961 00	
Albert Caswell, inspector of build-		
ings,	150 00	
	\$16,961 00	\$16,961 00

**SCHOOL CONTINGENT.**

**Credit.**

APPROPRIATIONS, amount assessed,		\$8,000 00
CASH, received —		
Of sundry persons, school books		
furnished by the School Com-		
mittee,	1 05	
	\$1 05	\$8,000 00
<i>Amounts carried forward,</i>		

<i>Amounts brought forward,</i>	\$1 05	\$8,000 00
Of the Superintendent of Schools and others, for tuition of non- resident pupils,	44 00	
		45 05
EXCESS AND DEFICIENCY, balance to debit of account,		1,103 45
		\$9,148 50

**Debit.**

CASH, paid Joshua H. Davis, salary as Superintendent of Schools,	\$1,800 00	
For postage stamps, etc.,	6 25	
Janitors,	3,268 26	
E. A. Smith, salary as truant officer,	375 00	
Taking school census,	60 00	
Travelling expenses,	3 80	
Robert Thompson, truant officer,	12 50	
C. C. Folsom, " "	12 50	
Travelling expenses,	6 00	
J. M. Coburn, truant officer,	12 50	
Rent and fuel,	202 82	
Charlestown Gas Company, gas,	109 25	
Cambridge Gas Light Company, gas,	142 86	
Geo. B. King, books and printing,	311 32	
J. L. Hammett, stationery, etc.,	41 87	
Knight, Adams & Co., stationery, etc.,	687 96	
A. A. Perry, books,	8 93	
E. G. Dodge, " "	76 47	
Ginn & Heath, " "	18 77	
Cowperthwaite & Co., books,	4 32	
Boston School Supply Co., books,	232 90	
A. C. Stockin, books,	90 00	
<i>Amounts carried forward,</i>	\$7,484 28	\$9,148 50

<i>Amounts brought forward,</i>	\$7,484 28	\$9,148 50
J. C. Howard, books,	24 38	
Mrs. E. S. Daniels, “	45 39	
Nichols & Hall, “	4 75	
S. F. Nichols & Co., “	188 10	
D. Lothrop & Co., “	117 00	
Little, Brown & Co., “	16 00	
John H. Ailman, “	3 00	
J. W. Ripley, binding “	8 00	
J. W. C. Gilman, “ “	5 75	
D. B. Brooks & Co., ink,	5 00	
J. O. Hayden & Co., printing,	128 00	
N. S. Dearborn, diplomas,	45 50	
C. A. French, filling certificates,	21 15	
A. G. Whitcomb, desks,	95 75	
Geo. L. Baxter, ribbon, etc.,	5 17	
G. A. Southworth, “	3 00	
J. S. Hayes, “	8 95	
Expenses of teachers' convention,	5 05	
City of Boston, water rates,	462 79	
City of Cambridge, “	24 00	
Smith, Doolittle & Smith, chemi- cals,	18 06	
C. H. Crane, chemicals,	75	
G. H. Brown, tuning pianos,	10 00	
E. S. Bailey, cleaning clocks,	11 00	
G. W. Bartlett, “ “	1 50	
L. W. Manning, laying carpet,	1 50	
O. Nowell, adjusting bell,	50	
Union Glass Co., globes,	88	
Austin & Fellows, brushes,	12 50	
Murphy, Leavens & Co., brushes,	67 96	
O. F. Howe, brooms,	9 75	
P. Lynam & Sons, mats,	75 88	
Geo. S. Adams, pails,	60	
<i>Amounts carried forward,</i>	\$8,911 89	\$9,148 50

<i>Amounts brought forward,</i>	\$8,911 89	\$9,148 50
J. A. Swasey, blackboards,	20 28	
W. L. Snow, pipe, etc.,	17 04	
C. Holmes & Son, stove work, sponges, etc.,	21 56	
C. A. Lacount, hardware, etc.,	2 38	
Ladies' Relief Corps, use of piano,	3 00	
Support of Poor account, wood,	44 97	
H. A. Pratt, carriage hire,	10 00	
J. P. Williams & Co., drinking cups, etc.,	12 75	
S. J. Wood, keys,	1 50	
J. F. Brosnahan, mason work,	2 50	
John H. Stevens, carpenter work,	13 30	
Rand & Byam, soap,	14 50	
G. H. Hills, soap, etc.,	1 52	
J. C. Davidson, soap, etc.,	2 44	
D. H. Rinn,                    “	5 90	
Margaret Harkness, cleaning,	1 52	
Wm. R. Cann, labor, etc.,	18 55	
L. L. Wilder,                   “	5 00	
Barker & Tibbetts, expressing,	20 10	
Thorpe's Express,           “	8 00	
Stilphen & Co.,               “	6 20	
E. R. Perham,                 “	2 25	
Bancroft's Express,       “	1 00	
Geo. T. Day,                   “	35	
		<hr/>
		\$9,148 50
		<hr/> <hr/>

## SCHOOL FUEL.

## Credit.

APPROPRIATIONS, amount assessed,	\$3,200 00
EXCESS AND DEFICIENCY, balance to debit of account,	49 19
	<hr/>
<i>Amount carried forward,</i>	\$3,249 19

*Amount brought forward,* \$3,249 19

**Debit.**

CASH, paid H. Wellington & Co., fuel,	\$3,178 04	
Support of Poor account, wood,	17 30	
G. M. Winslow & Co., fuel,	9 00	
Seward Dodge, amount paid for sawing wood,	6 20	
F. G. Williams, overseeing weigh- ing coal,	25 00	
J. O. Hayden & Co., advertising,	8 40	
Haskell Bros., " "	5 25	
	\$3,249 19	

**SCHOOL-HOUSE REPAIRS.**

**Credit.**

APPROPRIATIONS, amount assessed,		\$5,800 00
CASH, received of the Committee on Public Property, amount re- ceived for use of High School Hall,	\$60 52	
Catholic Society, use of Forster Hall,	260 00	
H. M. Smith, use of Forster Hall,	40 00	
Unity Council, " "	9 00	
J. B. Anthoine, use of High School Hall,	110 00	
J. B. Hardy, use of High School Hall,	145 00	
Thomas Miller, use of High School Hall,	120 00	
C. A. Cushman, use of High School Hall,	5 00	
Universalist Society, use of High School Hall,	10 00	
E. L. Hood, use of High School Hall,	15 00	
<i>Amounts carried forward,</i>	\$774 52	\$5,800 00



<i>Amounts brought forward,</i>	\$774 52	\$5,800 00
Paul Revere Lodge, use of High School Hall,	5 00	
Somerville Band, use of High School Hall,	10 00	
F. V. Wooster, use of High School Hall,	9 00	
	<hr/>	\$798 52
EXCESS AND DEFICIENCY, balance to debit of account,		756 50
		<hr/>
		\$7,355 02

## Debit.

CASH, paid J. D. Hills, carpenter work,	\$48 17	
Geo. W. Trefren, " "	289 94	
Elijah Walker, " "	464 83	
R. A. Melvin, " "	10 13	
L. Arnold, " "	152 63	
A. M. Graves, " "	148 52	
N. C. Barker, " "	88 05	
R. A. Stevens, " "	8 03	
G. T. Burnham, " "	38 55	
Wm. Holden, " "	166 50	
Ira F. Burnham, " "	34 24	
C. P. Allen, " "	75	
D. A. Sanborn, " "	21 44	
Albert Caswell, " "	20 72	
A. A. Gladwell, " "	58 27	
Maurice Terry, mason work,	200 59	
Daniel Brooks, " "	481 76	
A. M. Sibley, " "	61 55	
Edward Earley, slating,	129 74	
Adin Davis, repairing roof,	71 30	
Ramsey Clark, painting,	239 44	
J. Q. Twombly, "	148 02	
J. H. Hollis, "	12 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$2,895 17	\$7,355 02

<i>Amounts brought forward,</i>	\$2,895 17	\$7,355 02
W. S. Walker, painting,	292 55	
J. C. Dyer, “	423 02	
E. W. Carlton, whitening,	229 00	
F. A. Titus, gas fixtures,	6 10	
Sullivan & Co., plumbing and gas fitting,	52 73	
C. A. Legallee, plumbing,	74 59	
Stultz & Mansur, water closet,	8 98	
R. H. Drake, repairing pipe,	2 00	
J. W. Gregg, urinal,	37 72	
Sewers account, making drain, etc.,	135 23	
Sidewalk Assessment account, assessment on Bonner Avenue,	120 25	
Highways account, labor and filling material,	31 70	
J. W. Legallee, paper hangings,	2 74	
A. A. Sanborn, repairing heating apparatus,	100 44	
Boston Belting Co., hose,	21 60	
C. W. Lerner & Co., disinfectants,	20 00	
Seward Dodge, blacksmithing,	3 50	
Henry McElwin, blackboards,	123 30	
J. A. Merrifield, stove work,	43 25	
W. L. Snow, “ “	27 23	
J. A. Durell, “ “	41 96	
Chas. Holmes & Son, “ “	79 35	
Howe & Flint, “ “	365 16	
H. W. Raymond, hardware,	26 69	
E. S. Bailey, repairing clocks,	12 50	
Cambridge Gas Light Co., gas,	200 35	
Timothy Murphy, trees,	177 00	
O. Nowell, adjusting bells,	5 00	
<i>Amounts carried forward,</i>	\$5,559 11	\$7,355 02

<i>Amounts brought forward,</i>	\$5,559 11	\$7,355 02
B. F. Sheridan, painting fence, etc.,	12 00	
Flynn Bros., paper hangings, etc.,	36 28	
A. G. Paul, repairs,	2 65	
J. Leland, “	5 00	
S. J. Wood, keys, etc.,	1 25	
A. G. Whitcomb, desks,	123 53	
J. O. Hayden & Co., printing,	8 10	
J. M. Clark, repairing settees,	19 46	
D. H. Rinn, repairing furniture,	6 00	
J. E. Parsons, repairing hose, etc.,	14 29	
A. W. Berry, labor on blackboard,	1 50	
Haskell Bros., advertising,	3 50	
T. F. Crimmings, loam,	30 25	
C. A. Mongan, manure,	41 30	
Abigail O'Brien, “	6 00	
Water Services account, pipe,	108 01	
Bishop & Bros., steps,	5 00	
J. Young, care of lawn, etc.,	33 50	
A. A. Perry, chloride of lime,	45	
J. E. Bond, carpet,	12 04	
L. H. Brown, carriage hire,	8 00	
A. M. Prescott, expressing,	8 00	
Bancroft's Express, “	25	
W. C. Crane, premiums of insurance,	176 80	
Clark Bennett, premiums of insurance,	60 00	
Daniel Swan, rent,	250 00	
E. W. Cobb, “	242 50	
Chas. Robinson, Jr., rent,	200 00	
Mrs. Albert Bryant, “	150 00	
Wm. H. Denton, care of trees,	24 00	
Russell & Fitch, removing night-soil,	149 00	
<i>Amounts carried forward,</i>	\$7,297 77	\$7,355 02

<i>Amounts brought forward,</i>	\$7,297 77	\$7,355 02
Robert Thompson, labor,	24 00	
E. O'Brien,           “	75	
W. H. Whitcomb,   “	7 50	
J. M. Coburn,       “	10 25	
J. C. Davidson,     “	9 75	
James Barry,       “	5 00	
	<hr/>	\$7,355 02

### SCHOOL TEACHERS' SALARIES.

#### Credit.

APPROPRIATIONS, amount assessed, \$63,000 00

#### Debit.

CASH, paid salaries,	\$60,715 71	
EXCESS AND DEFICIENCY, balance to credit of account,	2,284 29	
	<hr/>	\$63,000 00

### SCHOOL-HOUSE ON HIGHLAND AVENUE.

#### Credit.

APPROPRIATIONS, amount assessed,	\$4,186 80
PUBLIC PARK, transferred,	10,000 00
	<hr/>
	\$14,186 80

#### Debit.

CASH, paid A. P. Damon, for land,	\$4,186 80	
S. D. Kelly, on account as archi- tect,	300 00	
Journal Newspaper Co., advertis- ing,	11 38	
“Daily Advertiser,” advertising,	7 00	
J. O. Hayden & Co.,       “	4 25	
Haskell Bros.,           “	2 50	
L. P. Soule, on account of mason work,	2,470 00	
Water Services account, service pipe,	38 15	
	<hr/>	\$7,020 08
BALANCE, to credit in account of 1881,	7,166 72	
	<hr/>	\$14,186 80

## SEWERS.

	Credit.	
APPROPRIATIONS, amount assessed,		\$7,500 00
CASH, received of School-House Repairs		
account, pipe, etc.,	\$135 23	
Jerry McCarthy, pipe,	10 56	
	<hr/>	145 79
SEWER ASSESSMENTS, assessments levied,		10,009 50
EXCESS AND DEFICIENCY, balance to		
debit of account,		3,578 29
		<hr/> \$21,233 58
	Debit.	
CASH, paid laborers,	\$2,159 95	
Fiske & Coleman, pipe, etc.,	1,783 74	
M. Day & Co.,           “	2 40	
Portland Stone Ware Co., pipe,		
etc.,	41 58	
D. W. Lewis, pipe, etc.,	135 74	
Howe & Flint, drain pipe,	3 74	
H. Wellington & Co., cement,	69 00	
R. Falvey,               “	2 60	
Osgood & Hart, castings,	258 37	
Walworth Manuf'g Co., tubes,		
traps, etc.,	61 75	
D. P. Green & Co., grates,	59 97	
A. Parker, catch-basins,	224 00	
Geo. W. Wyatt, brick,	147 25	
Bay State Brick Co., brick,	101 60	
Plymouth Five Cents Savings		
Bank, damage from construction		
of sewer,	50 00	
H. M. Sawyer, oil clothing,	3 59	
Jeremiah McCarty, stone,	7 50	
H. W. Raymond, hardware, etc.,	18 01	
	<hr/>	
Amounts carried forward,	\$5,130 79	<hr/> \$21,233 58



<i>Amounts brought forward,</i>	\$5,130 79	\$21,233 58
L. Schorle, pails,	7 50	
Howe & Flint, repairing hose,	2 96	
S. Dodge, blacksmithing,	9 04	
Waldo Bros., trap,	3 30	
Bishop & Bro., ladder,	3 00	
D. A. Sanborn, mortar-bed,	3 00	
L. Greeley, oak centres, etc.,	8 16	
Buff & Berger, half cost of transit,	124 00	
Robert Burlen, binding books, etc.,	24 00	
J. Bartley, oil, etc.,	1 82	
J. O. Hayden & Co., advertising,	54 10	
Haskell Bros., " "	10 00	
Aaron R. Gay & Co., stationery,	9 00	
J. A. Cummings, printing,	2 00	
C. A. Mongan, teaming and labor,	22 50	
W. H. Denton, labor,	50	
Bancroft's Express, expressing,	1 35	
Buffum & Hill, compensation for land taken,	92 00	
City of Boston, water,	25 00	
Geo. I. Vincent, clerk to Com- mittee on Sewers,	200 00	
Maurice Terry, constructing sewer in Skehan Street,	139 35	
In Highland Avenue,	288 74	
In Cameron Avenue,	218 30	
Richard Falvey, constructing sewer in Greenville Street,	396 30	
In Fountain and Palmer Ave- nues,	1,985 68	
Dennis O'Connell, constructing sewer in Washington and Tufts Streets,	1,104 88	
<i>Amounts carried forward,</i>	<u>\$9,867 27</u>	<u>\$21,233 58</u>

<i>Amounts brought forward,</i>	\$9,867 27	\$21,233 58
In Claremon and Holland Streets,	335 17	
In Hathon Street,	214 16	
In Bradley and Veazie Streets,	701 89	
In Holland Street and Broad- way,	180 70	
C. A. Mongan, constructing sewer in Summer Street,	1,315 85	
Patrick Terry, constructing sewer in Willow Place,	107 16	
John and Jeremiah McCarty, con- structing sewer in Pearl Street,	6,601 14	
H. H. Pike and E. F. Brigham, con- structing sewer in Kent Street and Garden Court,	1,240 24	
Maurice Buttimer, services as inspector,	133 50	
Wm. A. Muzzey, services as inspector,	52 50	
Richard Falvey, services as in- spector,	84 00	
Engineer's assistants, services as inspector,	219 00	
	<hr/>	
	\$21,052 58	
SUNDRY PERSONS, sums due and un- paid,	181 00	
	<hr/>	\$21,233 58
		<hr/> <hr/>
<b>SEWER ASSESSMENTS.</b>		
	<b>Credit.</b>	
CASH, received of sundry persons, assessments,		\$13,180 94
BALANCE, to debit in account of 1881,		8,081 50
		<hr/>
		\$21,262 44
	<b>Debit.</b>	
BALANCE, from 1879,	\$11,252 94	
SEWERS, assessments levied,	10,009 50	
	<hr/>	\$21,262 44
		<hr/> <hr/>

SEWERS (BEACON AND ELM STREETS  
SEWER).

<b>Credit.</b>	
BALANCE, from 1879,	\$6,413 52
CASH, received of H. C. Rand, for permission to enter sewer,	229 40
EXCESS AND DEFICIENCY, balance to debit of ac- count,	15,779 10
	<hr/> \$22,422 02

<b>Debit.</b>	
CASH, paid Albert Swan, assignee of Wm. Sullivan, balance for con- structing sewer, by judgment of court,	\$22,390 27
Geo. Phippen, Jr., attendance at court,	30 00
Jairus Mann, amount paid witness fee,	1 75
	<hr/> \$22,422 02

## SIDEWALKS.

<b>Credit.</b>	
APPROPRIATIONS, amount assessed,	\$2,500 00
SIDEWALK ASSESSMENTS, assessments levied,	1,298 85
	<hr/> \$3,798 85

<b>Debit.</b>	
CASH, paid laborers,	\$302 68
John Turner & Co., edgestones,	1,862 99
O. S. Foster, brick,	322 45
Highways account, gravel,	226 40
J. O. Hayden & Co., advertising,	22 20
Haskell Bros., " "	10 00
S. W. Fuller, lumber,	9 33
W. M. Hadley, cement,	1 40
<i>Amounts carried forward,</i>	<hr/> \$2,757 45
	<hr/> \$3,798 85

<i>Amounts brought forward,</i>	\$2,757 45	\$3,798 85
Cook, Rymes & Co., hammers,	3 50	
H. W. Raymond, level,	3 00	
C. Holmes & Son, lantern globes,		
etc.,	1 50	
Sturtevant Bros., oil,	15	
	<hr/>	
	\$2,765 60	
HIGHWAYS, transferred,	1,033 25	
	<hr/>	
		<u>\$3,798 85</u>

## SIDEWALK ASSESSMENTS.

## Credit.

CASH, received of sundry persons, assessments,		\$2,670 97
BALANCE, to debit in account of 1881,		667 55
		<hr/>
		\$3,338 52

## Debit.

BALANCE, from 1879,	\$2,039 67	
SIDEWALKS, assessments levied,	1,298 85	
	<hr/>	
		<u>\$3,338 52</u>

## 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
		<hr/>
		<u>\$45,525 00</u>

## SOLDIERS' RELIEF.

## Credit.

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

CASH, paid Sturtevant Bros., groceries,		
etc.,	\$269 00	
H. Wellington & Co., fuel,	97 31	
Philip Eberle, boots and shoes,	1 50	
	<hr/>	
<i>Amounts carried forward,</i>	\$367 81	\$1,000 00

<i>Amounts brought forward,</i>	\$367 81	\$1,000 00
H. W. Burgess, orders,	6 00	
I. W. Black,       “	3 00	
J. C. Ellis,       “	3 00	
Sundry persons, aid,	173 00	
	<hr/>	
	\$552 81	
EXCESS AND DEFICIENCY, balance to credit of account,	447 19	
	<hr/>	
		\$1,000 00

## STATE AID.

## Credit.

STATE OF MASSACHUSETTS. — STATE AID, amount  
paid in 1881, charged to the State, \$4,422 50

## Debit.

CASH, paid monthly pay-rolls for aid, \$4,422 50

## STATE OF MASSACHUSETTS.

## Credit.

TAXES, amount assessed for State Tax, \$23,160 00

## Debit.

CASH, paid State Tax, \$23,160 00

STATE OF MASSACHUSETTS. — INDIGENT  
SOLDIERS AND SAILORS.

## Credit.

CASH, received of the State Treasurer, amount paid  
in 1879, \$302 50

BALANCE, Dec. 31, 1880, due from the State, Dec. 1,  
1881, to debit in account of 1881, 1.147 00

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\$1,449 50

## Debit.

BALANCE, from 1879, \$302 50

INDIGENT SOLDIERS AND SAILORS, one  
half amount paid in 1880, as  
per account, 1,147 00

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\$1,449 50



## STATE OF MASSACHUSETTS.—STATE AID.

## Credit.

CASH, received of the State Treasurer,		\$4,425 25
BALANCE, Dec. 31, 1880, due from the State, Dec. 1, 1881, to debit in account of 1881,		4,300 25
		<u>\$8,725 50</u>

## Debit.

BALANCE, from 1879,	\$4,303 00	
STATE AID, amount paid in 1880, as per account,	4,422 50	
		<u>\$8,725 50</u>

STATE OF MASSACHUSETTS.—SUPPORT  
OF SOLDIERS AND SAILORS.

## Credit.

CASH, received of the State Treasurer, amount paid in 1879,		\$625 00
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## Debit.

BALANCE from 1879,		<u>\$625 00</u>
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## STREET LIGHTS.

## Credit.

APPROPRIATIONS, amount assessed,		\$7,500 00
CASH, received of J. J. Underhill, amount received by him for 11 lamp-posts,		210 00
EXCESS AND DEFICIENCY, balance to debit of account,		265 70
		<u>\$7,975 70</u>

## Debit.

CASH, paid Cambridge Gas Light Com- pany, gas,	\$2,138 49	
Labor on pipes, etc.,	56 30	
Charlestown Gas Company, gas,	1,625 23	
Labor on pipes, etc.,	213 69	
Hugh Blackwell, lighting,	2,514 75	
Labor on pipes, posts, etc.,	70 00	
<i>Amounts carried forward,</i>	<u>\$6,618 36</u>	<u>\$7,975 70</u>

<i>Amounts brought forward,</i>	\$6,618 36	\$7,975 70
Globe Gas Light Company, lighting,	850 20	
For lamp-posts, lanterns, etc.,	248 95	
A. H. Weld & Son, alcohol,	32 20	
Hills, Turner & Co., glass,	22 51	
S. Dodge, repairing lantern,	2 50	
W. H. Blackwell, repairing lamps,	111 75	
E. B. Morgan, painting lamps,	60 90	
C. H. Ramsdell, ladders,	17 83	
A. L. Haskell, printing,	10 00	
J. P. Williams, oil,	40	
	<hr/>	\$7,975 70
		<hr/> <hr/>

## SUNDRY PERSONS.

## Credit.

BALANCE, from 1879,		\$1,243 86
SEWERS, sums approved in favor of sundry persons, and unpaid,		181 00
INTEREST, coupons due and unpaid,		440 00
		<hr/>
		\$1,864 86

## Debit.

CASH, paid sundry persons, sums to their credit, Dec. 31, 1879,	\$1,233 76	
BALANCE, to credit in account of 1881,	631 10	
	<hr/>	\$1,864 86
		<hr/> <hr/>

## SUPPORT OF POOR.

## Credit.

APPROPRIATIONS, amount assessed,		\$13,000 00
CASH, received for support of paupers: —		
Of city of Boston,	\$891 41	
“    Cambridge,	141 53	
“    Chelsea,	65 85	
“    Lawrence,	203 80	
“    Lowell,	90 55	
	<hr/>	
<i>Amounts carried forward,</i>	\$1,393 14	\$13,000 00

<i>Amounts brought forward,</i>	\$1,393 14	\$13,000 00
Town of Abington,	217 90	
" Bridgewater,	50 55	
" Canton,	4 25	
" Melrose,	27 55	
" Nantucket,	35 45	
" Natick,	40 95	
" Oakham,	21 65	
" Provincetown,	6 70	
" Woburn,	75 70	
State of Massachusetts,	380 72	
Abigail O'Brien, board of son in hospital,	43 65	
Wm. Daly, board of mother,	22 75	
Estate of Ellen Crimmings, board in hospital,	33 00	
Fire Department account, wood,	12 45	
Miscellaneous account, " "	33 95	
School Contingent account, " "	44 97	
School Fuel account, " "	17 30	
	<hr/>	2,462 63
EXCESS AND DEFICIENCY, balance to debit of account,		1,241 56
		<hr/>
		\$16,704 19

## Debit.

CASH, paid Belknap & Boynton, provis- ions,	\$1,147 97	
Conant, Sanborn & Webber, groceries,	840 76	
Roberts, Cochrane & Co., gro- ceries,	771 03	
T. N. Snow, potatoes,	261 30	
T. A. Shedd, crackers,	268 14	
P. Curtis, fish,	244 00	
Hewey, Skillins & Co., meal,	40 80	
	<hr/>	
<i>Amounts carried forward,</i>	\$3,574 00	\$16,704 19

<i>Amounts brought forward,</i>	\$3,574 00	\$16,704 19
Sturtevant Bros., beef,	299 36	
Orders,	149 93	
Hennessey Bros., orders,	46 00	
C. A. Small, “	101 25	
L. Stockbridge, “	17 66	
L. W. White, “	33 18	
Simon White, “	2 50	
H. W. Burgess, “	12 60	
G. H. Sallaway, “	6 75	
J. C. Ellis, “	3 00	
M. Fillebrown, “	1 50	
A. F. Carpenter, “	8 00	
Geo. S. Adams, “	2 00	
P. T. O'Brien, “	1 00	
H. Wellington & Co., fuel,	1,666 C3	
J. F. Ayer, wood,	105 00	
J. C. Davidson, teaming, fuel, etc.,	462 15	
O. F. Howe. coal baskets,	15 25	
C. R. Williams, repairing coal baskets,	2 40	
J. H. Brooks, dry goods,	122 63	
W. Schuebeler, “	22 15	
J. W. Brine, “	11 50	
Philip Eberle, boots and shoes,	907 67	
Alois Wipfler, “ “	6 65	
W. J. Emerson, shoes,	1 50	
Chas. Brown, bags,	4 39	
Alvah Walker, oil,	5 66	
J. McCarroll, milk,	22 06	
P. Shannon, “	17 12	
Thos. Cunningham, milk,	5 88	
John Monahan, “	5 34	
E. F. Shaw, “	7 09	
<i>Amounts carried forward,</i>	<hr/> \$7,649 20	<hr/> \$16,704 19

<i>Amounts brought forward,</i>	\$7,649 20	\$16,704 19
C. Holmes & Son, stove work,	6 00	
Howe & Flint, stove work, etc.,	5 00	
S. J. Wood, filing saws,	2 00	
H. A. Pratt, carriage hire,	4 00	
L. H. Brown, " "	2 00	
S. D. Carter, meals furnished,	5 00	
J. J. Giles, " "	2 00	
Geo. H. Cowdin, medicine,	3 25	
Thorpe's Express, expressing,	6 90	
M. G. Steele, " "	15 07	
M. R. Warren, stationery,	16 50	
E. D. Daniels, " "	6 75	
Charles O'Neil, soap, etc.,	95 46	
Rand & Byam, " "	55 35	
W. P. Willard, teaming,	18 00	
Geo. W. Prichard, " "	19 38	
Joseph Wheeler, moving family,	2 50	
Ansel Lewis, transportation of paupers,	84 78	
H. P. Hemenway, medical attend- ance,	10 00	
J. F. Couch, medical attendance,	23 00	
E. L. White, " "	2 00	
H. B. Runey, undertaker's services,	132 00	
P. H. Rafferty, " "	109 00	
W. A. Flaherty, " "	27 00	
Clark Bennett, premium of insur- ance,	7 50	
City of Boston, water rates,	6 00	
State of Massachusetts, support of paupers,	209 14	
State Hospital for the Insane, sup- port of paupers,	1,001 21	
Taunton Lunatic Hospital, support of paupers,	168 19	
<i>Amounts carried forward,</i>	<u>\$9,694 18</u>	<u>\$16,704 19</u>



<i>Amounts brought forward,</i>	\$9,694 18	\$16,704 19
Worcester Lunatic Hospital, support of paupers,	1,227 96	
Asylum for Chronic Insane, support of paupers,	175 28	
Vermont Asylum, support of paupers,	84 20	
Commonwealth of Massachusetts, support of paupers,	298 47	
City of Boston, support of paupers,	1,075 91	
" Cambridge, " " "	115 16	
" Lawrence, " " "	55 00	
" Lowell, " " "	165 95	
" Lynn, " " "	1 00	
" Haverhill, " " "	21 81	
Town of Abington, " " "	8 83	
" Canton, " " "	126 23	
" Holliston, " " "	156 00	
" Melrose, " " "	131 50	
" Malden, " " "	28 60	
" Peabody, " " "	63 25	
" Taunton, " " "	56 74	
" Watertown, " " "	30 86	
C. J. Adams, support of sundry persons in the House of Correction,	102 86	
Old Cambridge Baptist Church, board of paupers,	79 00	
M. L. Oliver, board of paupers,	21 00	
T. Garvin, " " "	54 30	
A. Blaisdell, " " "	52 00	
Mrs. White, " " "	8 36	
Wm. E. Littlefield, board of paupers,	168 00	
Wm. McCarty, board of paupers,	48 99	
<i>Amounts carried forward,</i>	\$14,051 44	\$16,704 19

<i>Amounts brought forward,</i>	\$14,051 44	\$16,704 19
Mary McCormick, board of paupers,	4 36	
Mary Gallagher, “ “	10 00	
Mary Coughlan, “ “	9 00	
L. S. Gammons, “ “	54 00	
A. J. Wilson, “ “	68 99	
Wm. Holbrook, “ “	15 00	
Mrs. Henry McAvoy, board of paupers,	11 07	
Home for Destitute Children, board of paupers,	37 50	
Margaret Fallon, nursing,	11 00	
Delia Reardon, care of child,	10 00	
W. D. Hayden, “ pauper,	5 00	
J. Newhall, rent,	27 50	
Zylpah Shaw, rent,	38 50	
P. W. Skinner, “	26 00	
B. Hagan, “	72 00	
M. Terry, “	59 00	
Hugh Gallagher, “	44 00	
M. J. McCarron, “	48 00	
Margaret McCarty, rent,	27 00	
Jeremiah McCarty, “	50 00	
Wm. McCarty, “	11 00	
Chas. O’Neil, “	33 00	
James Gallagher, “	33 00	
Holbrook & Fox, “	42 00	
Sally Bailey, “	36 00	
A. T. Clark, “	28 00	
E. F. Grant, “	27 00	
Peter Scott, “	16 00	
Bridget Conlon, “	9 00	
A. A. Perry, “	8 00	
Thos. Dana & Co., “	4 00	
Patrick Kennedy, “	10 00	
<i>Amounts carried forward,</i>	<hr/> \$14,981 36	<hr/> \$16,704 19

<i>Amounts brought forward,</i>	\$14,981 36	\$16,704 19
Bernard O'Neil, rent,	3 00	
M. E. Nowlin, rent and board,	262 08	
Nelson Howe, overseer of the poor,	300 00	
F. G. Williams, " " "	300 00	
Ansel Lewis, " " "	300 00	
Ansel Lewis, storekeeper,	300 00	
T. Cunningham, secretary of overseers of the poor,	200 00	
T. Cunningham, administering oaths as justice of the peace,	54 75	
T. Cunningham, travelling expenses,	3 00	
	—————	<u>\$16,704 19</u>

## TAXES.

## Credit.

CASH, received taxes for 1877,	\$54 49	
1878,	34,739 50	
1879,	80,122 80	
1880,	272,416 03	
	—————	\$387,332 82
REAL ESTATE LIENS, titles to the city for non payment of taxes of 1878,		965 20
OVERLAY AND ABATEMENT, abatement on taxes for 1877,	\$153 85	
1878,	410 60	
1879,	3,669 87	
1880,	7,388 28	
	—————	11,622 60
BALANCE, to debit in account of 1881, being uncollected taxes for 1878,	\$133 10	
1879,	29,912 60	
1880,	123,123 40	
	—————	153,169 10
<i>Amount carried forward,</i>		<u>\$553,089 72</u>

*Amount brought forward,* \$553,089 72

**Debit.**

BALANCE, from 1879,	\$150,162 01	
APPROPRIATIONS, amount assessed for current expenses,	361,559 62	
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,	6,569 90	
	\$553,089 72	\$553,089 72

**TEMPORARY LOANS.****Credit.**

BALANCE, from 1879,		\$210,000 00
CASH, borrowed by authority of the City Council, on city notes, and of the following named:—		
April 10. — Blake Bros. & Co., on 8 months, at $4\frac{3}{4}$ per cent,	\$50,000 00	
April 13. — Blake Bros. & Co., on 8 months, at $4\frac{3}{4}$ per cent,	170,000 00	
April 13. — A. Sargent & E. E. Adams, trustees, 8 months, at $4\frac{1}{6}$ per cent,	10,000 00	
April 13. — Aaron Sargent, trus- tee, 8 months, at $4\frac{1}{6}$ per cent,	20,000 00	
July 1. — Boston Five Cents Sav- ings Bank, on 4 months, at $3\frac{1}{4}$ per cent,	65,000 00	
Oct. 1. — Boston Five Cents Sav- ings Bank, on 2 months, at $3\frac{7}{8}$ per cent,	70,000 00	
Dec. 13. — Boston Five Cents Sav- ings Bank, on 4 months, at $4\frac{3}{8}$ per cent,	70,000 00	
	\$455,000 00	\$210,000 00
<i>Amounts carried forward,</i>		

<i>Amounts brought forward,</i>	\$455,000 00	\$210,000 00
Dec. 13. — Boston Five Cents Savings Bank, on 4 months, at 4½ per cent,	80,000 00	
Dec. 13. — Blake Bros. & Co., on 4 months, at 4 per cent,	50,000 00	
Dec. 31. — Brewster, Bassett & Co., on 4 months, at 4½ per cent,	10,000 00	
	<hr/>	595,000 00
		<hr/>
		\$805,000 00

## Debit.

CASH, paid the following named:—

April 13. — Boston Five Cents Savings Bank, notes dated Dec. 13, 1879,	\$150,000 00	
April 13. — J. T. Glines & Co., note dated Dec. 13, 1879,	10,000 00	
April 13. — A. Sargent & E. E. Adams, trustees, note dated Dec. 13, 1879,	10,000 00	
April 13. — Aaron Sargent, trustee, note dated Dec. 13, 1879,	20,000 00	
Oct. 1. — Boston Five Cents Savings Bank, note dated Dec. 31, 1879,	20,000 00	
Nov. 4. — Boston Five Cents Savings Bank, note dated July 1, 1880,	65,000 00	
Dec. 13. — Provident Institution for Savings, note dated April 10, 1880,	50,000 00	
Dec. 16. — Provident Institution for Savings, note dated April 13, 1880,	170,000 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$495,000 00	\$805,000 00



<i>Amounts brought forward,</i>	\$495,000 00	\$805,000 00
Dec. 16. — A. Sargent and E. E. Adams, trustees, note dated April 13, 1880,	10,000 00	
Dec. 16. — Aaron Sargent, trustee, note dated April 13, 1880,	20,000 00	
Dec. 16. — Boston Five Cents Savings Bank, note dated Oct. 1, 1880,	70,000 00	
	<hr/>	
	\$595,000 00	
BALANCE, to credit in account of 1881,	210,000 00	
	<hr/>	\$805,000 00
		<hr/> <hr/>

## WATER MAINTENANCE.

## Credit.

APPROPRIATIONS, amount assessed,		\$14,000 00
CASH, received of city of Boston, return on water rates : —		
1879. 40 per cent on \$2,090 63,	\$836 25	
1880. 15 per cent on \$20,000,	3,000 00	
20 per cent on \$10,000,	2,000 00	
25 per cent on \$10,000,	2,500 00	
30 per cent on \$10,000,	3,000 00	
40 per cent on \$4,158.87,	1,663 54	
Blake Bros. & Co., premium on Water Loan bonds,	1,841 70	
Geo. Wm. Ballou & Co., premium on Water Loan bonds sold,	1,626 00	
J. P. Squire & Co., laying pipe,	1,242 05	
C. B. Sanborn, pipe, etc.,	22 15	
John Peabody, manure,	6 00	
	<hr/>	17,737 69
<i>Amount carried forward,</i>		\$31,737 69

*Amount brought forward,*

\$31,737 69

**Debit.**

CASH, paid interest on Water Loan bonds :

\$205,000 at 6½ per cent,	\$13,325 00
\$20,000 at 6 per cent,	1,200 00
\$70,000 at 5½ per cent,	3,850 00
\$40,000 at 5 per cent,	2,000 00

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\$20,375 00

CASH, paid laborers,

3,850 88

N. Dennett, salary as superintendent,

1,200 00

E. S. Conant, salary as clerk of  
Water Board,

100 00

Walworth Manuf. Co., fittings,

260 28

F. B. Austin &amp; Co., iron,

988 35

H. Wellington & Co, cement and  
coal,

292 35

W. M. Hadley, cement,

10 00

Davis & Farnham Manufacturing  
Co., fittings,

227 43

Boston Machine Co., fittings,

77 80

J. S. Newell &amp; Co., “

78 75

Samuel May &amp; Co., rivets and chain,

50 18

Boston Nut Co., bolts,

37 46

Boston Lead Manuf. Co., tin, etc.,

13 86

Fuller, Dana &amp; Fitz, snips,

3 00

Richard Pattee, hydrants,

528 00

H. M. Stone, pump, etc.,

28 75

Braman, Dow &amp; Co., pipe,

109 60

W. L. Snow, pipe,

2 67

J. S. Rice &amp; Co., iron work,

3 25

Somerville Iron Foundry, castings,

237 21

Osgood &amp; Hart, castings,

52 53

Seward Dodge, blacksmithing,

242 82

Boston Belting Co., hose,

23 40

*Amounts carried forward,*

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\$28,793 57

---

\$31,737 69

<i>Amounts brought forward,</i>	\$28,793 57	\$31,737 69
Howe & Flint, zinc and lead,	3 61	
Sewell & Day Cordage Co., oak- um, etc.,	15 12	
C. Holmes & Son, oil, etc.,	15 98	
J. Bartley, oil, etc.,	4 68	
Downer Kerosene Oil Co., oil,	1 63	
J. C. Storey & Co., oil, etc.,	11 12	
Geo. H. Cowdin, drugs,	1 60	
C. H. Crane, sponges, etc.,	6 25	
Philip Eberle, rubber boots,	14 00	
Knapp & Ferrin, oil coat,	4 00	
A. R. Coolidge, hay,	76 45	
Hewey, Skillins & Co., hay, straw, etc.,	89 06	
J. H. Brine, straw,	4 76	
Lime,	2 20	
Sturtevant Bros., hay,	44 30	
Harness, etc.,	39 10	
Horse hire,	42 76	
Pails, etc.,	1 11	
Hill & Langtry, harness,	60 00	
T. B. Wilson, harness work, etc.,	66 51	
J. Leland, wheelwright work,	11 30	
H. W. Leonard, " " "	4 75	
Geo. E. Downes, salt,	2 70	
C. H. North & Co., "	3 20	
Sabin & Page, duck,	3 45	
J. H. Brooks, " "	4 10	
W. Schuebeler, cloth,	1 02	
Union Glass Co., lantern glasses,	8 17	
E. R. Perham, expressing,	4 25	
M. S. Cahill, harness dressing,	1 25	
Bogman & Vinal, spikes,	11 30	
James Forgie, horse collar,	4 50	
C. Maguire, drilling machine, etc.,	7 00	
<i>Amounts carried forward,</i>	<u>\$29,364 80</u>	<u>\$31,737 69</u>

<i>Amounts brought forward,</i>	\$29,364 80	\$31,737 69
C. A. Mongan, teaming,	2 00	
City of Boston, water rate,	20 00	
Hanover Insurance Co., premium of insurance,	57 75	
N. Tufts & Son, grain,	98 62	
Cambridge Gas Light Co., gas,	25 66	
C. J. Simpson, sand,	7 40	
Estate of S. C. Thwing, labor,	18 65	
Thomas Hollis, medicine,	1 60	
Mary Dugan, damage from water,	5 90	
L. H. Brown, use of horse and wagon,	34 00	
J. A. Cummings & Co., printing,	3 75	
Doane & Greenough, stationery,	6 75	
Hooper, Lewis & Co., “	5 40	
Henderson Bros., pung,	60 00	
E. D. Sawyer & Co., lumber,	28 64	
N. M. Eugley & Co., “	5 34	
John Clary, lumber,	4 39	
J. W. Gilpatrick, carpenter work,	4 50	
T. McIntire, Jr., painting,	46 00	
H. W. Raymond, hardware,	55 58	
Page & Littlefield, sawing lumber,	39 00	
	<hr/>	
	\$29,895 73	
WATER SERVICES, transferred,	175 31	
EXCESS AND DEFICIENCY, balance to credit of account,	1,666 65	
	<hr/>	
		<u>\$31,737 69</u>

### WATER SERVICES.

#### Credit.

CASH, received of Miscellaneous (Watering Streets) account, re- pairing stand-pipe,	\$88 45
School-House Repairs account, pipe, etc.,	108 01
	<hr/>
<i>Amount carried forward,</i>	\$196 46

<i>Amount brought forward,</i>	\$196 46	
School-House on Highland Avenue		
account, pipe, etc.,	38 15	
Highways account, pipe, etc.,	17 47	
Heirs of John and Catharine Arsing,		
pipe, etc.,	8 65	
J. W. Brooks, pipe, etc.,	10 56	
Mrs. C. B. Smith, pipe, etc.,	11 36	
Austin Belknap,           “	25 90	
Leonard Spinney,       “	35 73	
Samuel Locke & Co.,   “	51 96	
P. S. Higgins,           “	17 67	
John Bacon, repairing pipe,	4 25	
Boston Lead Manuf'g Co., return		
on bill paid,	3 90	
		\$422 06
WATER SERVICE ASSESSMENTS, cost of		
service pipes laid,		1,715 89
WATER MAINTENANCE, cost of services		
over sums charged, transferred,		175 31
		<u>\$2,313 26</u>
	<b>Debit.</b>	
CASH, paid laborers,	\$501 23	
Walworth Manuf. Co., fittings,	568 77	
Stultz & Mansur,       “	171 03	
Dalton & Ingersoll,   “	10 50	
Boston Lead Manuf. Co., lead and		
pipe,	84 72	
Geo. Woodman & Co., pipe,	274 81	
Braman, Dow & Co.,   “	249 30	
Sumner & Goodwin,   “	183 98	
Chadwick Lead Works, “	18 45	
Davis & Farnham Manuf. Co., ser-		
vice boxes,	4 13	
J. H. Stevens, hydrant handles,	9 64	
H. W. Raymond, hardware,	10 25	
		<u>\$2,313 26</u>
<i>Amounts carried forward,</i>	\$2,086 81	\$2,313 26

<i>Amounts brought forward,</i>	\$2,086 81	\$2,313 26
Levi Hawkes & Co., traps,	1 50	
H. Wellington & Co., cement,	22 10	
Geo. H. Cowdin, acid,	50	
N. M. Eugley & Co., lumber,	127 32	
John H. Hanley, charcoal,	50 00	
Hooper, Lewis & Co., stationery,	3 45	
J. C. Warren, freight and teaming,	20 08	
John White, teaming,	1 50	
	<hr/>	\$2,313 26
		<hr/> <hr/>

### WATER SERVICE ASSESSMENTS.

#### Credit.

CASH, received of sundry persons for water services,		\$1,598 61
BALANCE, to debit in account of 1881,		413 80
		<hr/>
		\$2,012 41

#### Debit.

BALANCE, from 1879,	\$296 52	
WATER SERVICES, service pipes laid in 1880,	1,715 89	
	<hr/>	\$2,012 41
		<hr/> <hr/>



Table D.

BALANCES DEC. 31, 1880.

Cash,	\$7,448 50	
Excess and Deficiency,	26,603 94	
Funded Debt,		\$1,585,000 00
Highway Betterment Assessments,	2,831 75	
Overplus on Tax Sales,		131 00
Property and Debt Balance,	463,600 00	
Public Library,		499 22
Public Park,		1,524 18
Public Park Betterment Assessments,	1,573 84	
Public Property,	1,121,400 00	
Real Estate Liens,	13,714 99	
School-House on Highland Avenue,		7,166 72
Sewer Assessments,	8,081 50	
Sidewalk Assessments,	667 55	
State of Massachusetts, — Indigent Soldiers and Sailors,	1,147 00	
State of Massachusetts, — State Aid,	4,300 25	
Sundry Persons,		631 10
Taxes,	153,169 10	
Temporary Loans,		210,000 00
Water Service Assessments,	413 80	
	<hr/>	<hr/>
	\$1,804,952 22	\$1,804,952 22
	<hr/>	<hr/>



REPORT

OF

COMMISSIONERS OF THE SINKING FUNDS.

## CITY OF SOMERVILLE.

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IN BOARD OF MAYOR AND ALDERMEN, Jan. 25, 1881.

Report accepted and ordered to be printed in the Annual Report. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

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IN COMMON COUNCIL, Jan. 26, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

# CITY OF SOMERVILLE.

IN BOARD OF COMMISSIONERS OF THE SINKING FUNDS,  
Jan. 25, 1881.

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

GENTLEMEN, — The undersigned present herewith their fifth Annual Report as Commissioners of the Sinking Funds of this city. The amount of the funds, Jan. 20, 1880, as per report of that date, was

\$198,025 60

The increase during the year 1880 was, —

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

Interest on city bonds in sinking funds, \$151,500

@ 5 per cent, and \$44,500 5½ per cent, 10,022 50

Interest on deposits in banks, 191 85

Total sinking funds at this date, \$253,764 95

Invested as follows : —

In bonds of the city of Somerville, \$206,500 5 per cents and \$44,500 5½ per cents, \$251,000 00

Deposited in banks and drawing interest, 2,764 95

Respectfully submitted,

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





ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF SOMERVILLE,

FOR THE

YEAR 1880.

## CITY OF SOMERVILLE.

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IN SCHOOL COMMITTEE, Dec. 27, 1880.

The Superintendent submitted his Annual Report, which was read and unanimously 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 1880.

J. H. DAVIS, *Secretary.*

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IN BOARD OF MAYOR AND ALDERMEN, Jan. 25, 1881.

Received and referred to the Committee on Printing, with instructions to print the same in the Annual Report of 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

---

IN COMMON COUNCIL, Jan. 26, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

# BOARD OF SCHOOL COMMITTEE, 1880.

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HON. GEORGE A. BRUCE,  
Mayor, *ex officio*.

JOSEPH W. BAILEY,  
President of Common Council, *ex officio*.

## WARD ONE.

SANFORD HANSCOM, M. D. . . . .	Term expires Dec. 31, 1880.
JOHN H. BUTLER . . . . .	“ “ 1881.
HENRY M. MOORE . . . . .	“ “ 1882.

## WARD TWO.

CHARLES S. LINCOLN . . . . .	Term expires Dec. 31, 1880.
OREN S. KNAPP . . . . .	“ “ 1881.
ALPHONZO H. CARVILL, M. D. . . . .	“ “ 1882.

## WARD THREE.

QUINCY E. DICKERMAN . . . . .	Term expires Dec. 31, 1880.
HENRY F. WOODS . . . . .	“ “ 1881.
NORMAN W. BINGHAM . . . . .	“ “ 1882.

## WARD FOUR.

REV. CHARLES M. SMITH, D. D. . . . .	Term expires Dec. 31, 1880.
HENRY C. BUCK . . . . .	“ “ 1881.
PROF. BENJAMIN G. BROWN . . . . .	“ “ 1882.

*Chairman,*

HON. GEORGE A. BRUCE.

*Superintendent and Secretary,*

JOSHUA H. DAVIS.

## STANDING COMMITTEES, 1880.

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

BOARD OF SCHOOL COMMITTEE, 1881.

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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.

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- 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.



## SUPERINTENDENT'S REPORT.

*To the School Committee of Somerville :*

GENTLEMEN, — In compliance with the requirements of your rules, the following report of the public schools of the city, for the year 1880, is respectfully submitted.

### POPULATION AND VALUATION.

Population of the city, United States census, 1880	24,985
Population of the city, United States census, 1870	14,693
Increase for ten years . . . . .	10,292
Population in 1860 . . . . .	8,025
"    1855 . . . . .	5,806
"    1842 . . . . .	1,013
Valuation of the city, May 1, 1880 . . . . .	\$20,458,100 00
Personal estate . . . . .	\$2,064,900 00
Real estate . . . . .	18,393,200 00
Estimated value of school property . . . . .	312,000 00
Valuation of Somerville in 1842 . . . . .	988,513 00

### SCHOOLS.

One grammar school and two primary schools in Prospect Hill district, and one primary school in Spring Hill district, were discontinued in September. In October, one primary school was organized in Winter Hill district and one in West Somerville district.

Whole number of schools . . . . .	82
High School . . . . .	1
Grammar schools . . . . .	46
Primary schools . . . . .	35
Decrease for the year . . . . .	2

## SCHOOL-HOUSES.

When Somerville was organized in 1842, there were, within its limits, one school-house containing two school-rooms and three school-houses with one room each. Since that time, twenty-one buildings, containing ninety-one school-rooms and two school-halls, have been constructed, and one building with two school-rooms has been purchased, making in all, twenty six buildings, ninety-eight school-rooms, and two school-halls. Five of those buildings, containing fifteen school-rooms, have been destroyed by fire, and three buildings, containing four school-rooms, have been appropriated to other purposes.

Number of school-houses at the present time . . . . .	18
Number of school-rooms owned by the city . . . . .	79
Number of school-halls . . . . .	2
Number of rooms hired for school purposes . . . . .	7
Number of vacant rooms . . . . .	3

*West Somerville School-House.*— Early in January the School Committee presented a request to the City Council for the erection of a school building, with eight school-rooms, near the centre of West Somerville district, and the removal of the Lincoln School-House to some point near the junction of Broadway and Curtis Street. In compliance with that request, a lot of land of ample dimensions, located at the corner of Highland Avenue and Grove Street, was purchased, and a building to contain eight school-rooms is in process of construction thereon, under the supervision of the architect, Samuel D. Kelley, Esq. The building, which will be beautiful in appearance and commodious in all its appointments, will be completed and ready for use at the beginning of the school year in September next.

If arrangements are made for the removal of the Lincoln School-House to Clarendon Hill as soon as it is vacated by the schools in June, that building also may be in readiness for the schools at the beginning of the fall term.

*Morse School-House.*— During the summer vacation, the hall in

the Morse School-House was converted into two school-rooms, and arrangements were made for the removal of the primary school, which had been occupying a dark and imperfectly ventilated room in the basement of that building, to its present commodious and pleasant quarters.

*Webster School-House.* — In the report of last year, attention was directed to the need of more convenient accommodations for pupils residing south of the Fitchburg railroad.

The Webster School-House, located on Webster Avenue, is occupied by one grammar school and one primary school, and contains two vacant school-rooms. If that building were removed to some point near the centre of the territory south of the railroad, it would accommodate all the pupils residing in that section of the city, who belong to the fifth and sixth classes of the grammar schools, and all pupils of the primary schools who could not be accommodated in the Union and Harvard School-Houses.

The Union School-House, located on Prospect Street, is within convenient distance of the homes of pupils of the Webster primary school, and would well accommodate that school. The Webster School-House, at the proposed location, would be more central to pupils of the Union primary school than the building they now occupy, and would not be far from the homes of pupils forming the Webster grammar school. All would be well accommodated by the proposed arrangement, and no pupils younger than those belonging to the fourth class of the grammar school would be obliged to cross the railroad in passing to and from school.

#### ADDITIONAL ACCOMMODATIONS.

*East Somerville District.* — There is an urgent demand for additional school accommodations in East Somerville district. The Prescott and Edgerly School-Houses, the only school buildings owned by the city in that district, are full, and there are no rooms in the district adapted to school purposes that can be hired for temporary use.

During a portion of the year the committee have been compelled to restrict the attendance of pupils of the lowest grade of the primary

department, in the Prescott and Edgerly buildings, to five half-day each week.

The building located on Tufts Street, and which has been hired during the last six years at an annual cost of \$200, and occupied by schools as the last and only resort, is entirely unsuited to school purposes. Justice to the schools that are compelled to occupy it requires that it should be vacated at the earliest period possible.

We would urgently recommend the immediate construction of a building on the lot of land owned by the city and located on Tufts Street. That location is central between the Prescott and Luther V. Bell School-Houses, and is destined, at no distant period, to become the centre of an additional school district. In a few years the necessities of that section of the city, of which Tufts Street is the centre, will require a large school building; but the immediate want would be met by a building that will contain four school-rooms. A building of that capacity could be constructed with a view to its extension when additional accommodations are required.

*Winter Hill District.* — For the relief of several schools in the Forster School-House, a school was organized in October and placed in the hall of that building. Accommodations will be required, the coming year, for an additional school in the Forster building or in its immediate neighborhood.

## SCHOOL DISTRICTS.

For convenient supervision by subcommittees, the schools are grouped into five districts as follows : —

DISTRICTS.	BUILDINGS.	Number of Schools.	Number of Pupils.
Winter Hill .....	Forster .....	9	455
“ .....	Cedar Street.....	2	93
East Somerville.....	Prescott.....	12	619
“ .....	Edgerly .....	4	235
“ .....	Tufts Street .....	2	86
Prospect Hill .....	Luther V. Bell .....	12	579
“ .....	Prospect Hill.....	6	304
“ .....	Brastow .....	2	84
“ .....	Bennett .....	3	163
“ .....	Jackson .....	4	203
“ .....	Webster.....	2	85
“ .....	Union.....	1	57
Spring Hill .....	Morse.....	6	277
“ .....	Beech Street.....	2	112
“ .....	Spring Hill .....	1	57
“ .....	Franklin .....	3	139
“ .....	Harvard.....	1	59
West Somerville .....	Lincoln .....	4	161
“ .....	Clarendon Block.....	1	49
“ .....	Holland Street.....	3	140
“ .....	Chapel .....	1	34
		81	3,991



## SCHOOLS AND TEACHERS.

SCHOOLS.	TEACHERS.	SALARIES.	FIRST ELECTED.
High .....	George L. Baxter.....	\$2,200	1867
" .....	Frank M. Hawes.....	1,400	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 .....	1,700	1878
" .....	Stella M. King.....	625	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.....	350	1879
" .....	Lizzie G. Perry.....	550	1878
Prescott.....	Gordon A. Southworth....	1,900	1873
" .....	Anna M. Bates.....	675	1874
" .....	V. E. Hapgood.....	600	1876
" .....	Adelaide Reed .....	650	1864
" .....	Frank P. Hudson .....	600	1877
" .....	Abbie A. Anderson.....	600	1878
" .....	Amelia I. Sears.....	600	1873
" .....	Nancy W. Proctor .....	575	1869
" .....	Catharine T. Brown.....	575	1868
" .....	Clara Taylor.....	575	1871
" .....	Sarah E. Pratt.....	575	1877
" .....	Elgina M. Plummer .....	550	1877
" .....	Emma F. Schuh .....	550	1874
Ederly .....	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
" .....	Minnie H. Marden .....	625	1876
" .....	Clara A. Battles .....	600	1874
" .....	Lvdia L. Gordon.....	600	1869
" .....	Ellen M. Gooding.....	600	1868
" .....	Caroline S. Plimpton.....	600	1859
" .....	Abbie C. Hunt.....	600	1873
" .....	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
" .....	May E. Berry.....	350	1880



SCHOOLS AND TEACHERS. — *Continued.*

SCHOOLS.	TEACHERS.	SALARIES.	FIRST ELECTED.
Prospect Hill.....	Augusta A. Roberts.....	\$650	1861
“ .....	Anna C. Damon.....	575	1879
“ .....	Ellen Ledyard .....	575	1874
“ .....	Ada I. Howe.....	350	1880
“ .....	Lillian F. Howe.....	550	1876
“ .....	Charlotte I. Houghton .....	550	1875
Brastow.....	Sarah E. Pennock.....	575	1871
“ .....	Lizzie D. Harding.....	425	1877
Bennett .....	Helen Tincker .....	625	1872
“ .....	Maria Miller.....	550	1870
“ .....	Mary B. Currier .....	550	1873
Jackson .....	Lizzie W. Snelton .....	625	1860
“ .....	Rebecca F. Woodberry.....	550	1863
“ .....	Maud M. Hobson .....	300	1879
“ .....	Annie E. McCarty.....	300	1880
Webster.....	Ada L. Sanborn.....	625	1869
“ .....	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 .....	350	1880
Beech Street.....	Mary A. Haley .....	575	1868
“ .....	Helen W. Chapin .....	550	1873
Franklin .....	Jane E. Clark.....	650	1873
“ .....	Emeline C. Ruggles.....	550	1876
“ .....	Hattie A. Hills.....	550	1874
Harvard .....	Annie E. Robinson.....	550	1876
Lincoln .....	George E. Nichols .....	1,500	1877
“ .....	Jennie Colburn .....	600	1875
“ .....	Georgiana Cutter .....	600	1873
“ .....	Lizzie J. Conwell .....	575	1873
“ .....	Annie F. Hills .....	575	1877
Wallace Street.....	Carrie L. Lacount.....	550	1875
“ .....	Sarah E. Pray .....	425	1878
Holland Street.....	Mary A. Paul.....	550	1879
Cedar Street.....	Alice Simpson.....	575	1872
“ .....	Alice M. Porter.....	350	1880
Teacher of Music....	S. H. O. Hadley.....	1,000	1868

## TEACHERS.

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

## RESIGNED.

Frederick Farnsworth, Esq., assistant in the High School.  
 Miss M. Annie Rice, teacher in the Prescott School.  
 Miss Mary L. Sanderson, teacher in the Jackson School.  
 Miss Carrie M. Sibley, teacher in the Spring Hill School.  
 Miss Adeline Sanderson, teacher in the Bennett School.

## ELECTED.

Miss Sarah F. Litchfield, assistant in the High School.  
 Miss Kate W. Cushing, assistant in the High School.  
 Miss Annie E. McCarty, teacher in the Jackson School.  
 Miss Carrie N. Sanderson, teacher in the Morse School.  
 Miss Alice M. Porter, teacher in the Cedar Street School.  
 Miss Clara N. Burgess, teacher in the Morse School.

Whole number of teachers . . . . .	92
Male teachers, 8 ; female teachers, 84.	
Number of teachers in the High School . . . . .	7
Male teachers, 2 ; female teachers, 5.	
Number of teachers in the grammar schools . . . . .	49
Male teachers, 5 ; female teachers, 44.	
Number of teachers in the primary schools . . . . .	35
One teacher of vocal music.	

Of the ninety-two teachers of the public schools, twelve are graduates of normal schools and thirty-six of our High School. Eighty of them have taught more than four years, — the term of service which entitles them to the maximum of salary ; twenty-one have taught more than ten years, and nine more than fifteen years.

It has been our pleasure, through a series of years, to observe the fidelity of our teachers, their devotion to their work, and their prompt and cheerful co-operation in all measures suggested for the benefit of the schools. All have been faithful, many eminently successful, but none have attained to the limit of their capabilities. “No man ever lived whose acts were not smaller than himself”

All the schools exhibit faithful work, and much that entitles them to the highest commendation ; but different degrees of excellence are apparent among them.

The several teachers are performing their work under a great variety of circumstances. In many schools all things conspire to the most favorable results ; while in others, influences beyond our control counteract the efforts of the best teachers, and greatly diminish their efficiency. Whenever, therefore, judgment is passed upon teachers and their work, justice requires that all the circumstances, favorable or adverse, under which they are laboring, should be duly considered.

Ordinarily, however, schools truthfully reflect the character of their teachers, and verify the well-worn maxim, “As is the teacher, so is the school.”

We may profitably consider the question: Does not the difference in the efficiency and success of teachers, as shown by the different degrees of excellence apparent in their schools, arise, with the exceptions specified, from causes which may be, and therefore should be, removed?

Many persons possess in a marked degree a natural aptitude for teaching. “As there are born poets, so there are born teachers.” But such persons do not become eminent as teachers except as their natural endowments are supplemented by the requisite attainments. Newton, the prince of philosophers, affirmed that his successes were not the result of genius, but of patient thought, of

persevering application to study. It has been aptly said, "It is only when genius is wedded to learning that the muse will sing in strains of pleasing melody." Dr. Hart, former principal of the New Jersey State Normal School, says: "In teaching as in every other profession, while men doubtless differ as to their original qualifications and aptitudes, yet the differences are not so great as they are supposed to be, and by no means so great as those produced by study and practice. The man who has no special gift for this employment, but who faithfully and intelligently tries to perfect himself in it, is sure to be a better teacher than the one who has the natural gift, but adds to it no special study and preparation."

If it be true, therefore, that ordinarily a teacher's ability may be correctly determined by the character of his school; that his fitness or unfitness for his work rests mainly with himself; that any person of intelligence and ability may become an efficient and successful teacher if he will diligently and perseveringly avail himself of the numerous facilities for improvement at his disposal,—then we may conclude that the different degrees of excellence apparent in the several schools result mainly from the vigilant and industrious use or the neglect of the numerous and well-known means of improvement; that the remedy is within the reach of every teacher; and that, consequently, imperfect work in the school-room is inexcusable.

Facilities for improvement in the art of teaching abound. There are no better schools or teachers than some that can be found in our own city and in the neighboring cities. These schools are always accessible; their teachers are ever ready to extend a cordial welcome to their co-laborers. Whenever, therefore, any teacher is conscious that his methods of instruction are not the best, and the results secured by him are not altogether satisfactory, he can easily place himself where he can witness the application of the most approved methods, and observe the operation of the means that secure the most satisfactory results. Educational periodicals, containing the choicest thoughts of the most eminent educators, abound; numerous books prepared by distinguished teachers of long and successful experience, full of valuable suggestions and wise instruction concerning all matters within the sphere of the teacher's duties, are easily obtained.



## QUALIFICATIONS.

We will briefly consider some of the qualifications which are sought — and in most instances secured — in those whom we place over the schools.

*Health.* — Firm health is of great importance to the teacher. It is indispensable to the maintenance of cheerfulness, an equable temper, and that constant self-control which is so essential to the proper government of others. But “Health,” says Horace Mann, “is a product, a manufactured article, as much as any fabric of the loom or the workshop. A man prepares his own health, as he does his own house; and except in some few cases of hereditary taint or of organic lesion from accident or violence, the how much or the how little health any man shall enjoy depends upon his treatment of himself.” For his own sake, therefore, as well as for the benefit of his pupils, the teacher should understand and practise the laws of health.

*Professional Enthusiasm.* — Enthusiasm is a characteristic of all persons who attain to eminence in any calling in life. Teachers who are successful in awakening and maintaining enthusiasm in their pupils are themselves enthusiasts. They inspire by the resistless influence of their own example. Their love of knowledge and delight in imparting it render it attractive to their pupils, and its acquisition a pleasure to them. Such teachers magnify their office in their own esteem, and render it honorable in the estimation of others. Many who knew the celebrated Dr. Arnold, of Rugby, regretted that, with his rare endowments, he should have devoted his energies through life to the performance of the duties of a teacher. But he entertained most exalted views of the dignity of his calling. “He believed that in moulding, influencing, and directing hundreds of young men, many of whom were to occupy important positions in society, and in reforming and elevating the entire system of school education, he was engaged in a noble work.”

*Ability to win the Respect and Affection of Pupils.* — Love is aptly styled “the governing power of the human soul, as it is the crowning grace in the Christian system.” It is of the utmost

importance that mutual respect and affection should exist between teachers and their pupils. The relation of teacher and pupil is not altogether a natural relation. Parents are the natural guardians and instructors of their children. The statute, it is true, places the teacher, during school hours, in the position of a parent; but no legislation can create those mutual, natural attachments which exist between parents and their offspring. There is therefore occasion for special effort, by teachers and scholars, to supply this deficiency.

The teacher who possesses the ability to make his school-room attractive, to awaken a love of knowledge, to render its acquisition a pleasure, and especially to win the respect and affection of his pupils, occupies high vantage-ground. He thereby places himself in a position to exercise almost unlimited influence; for what will not pupils cheerfully do to gratify such a teacher? He greatly lightens his own and his pupils' labor, and dissipates the tedium of study. Labor is a delight when the heart is in it. But love is the price of love. We receive, in measure and kind, in proportion as we give. Teachers secure the respect and affection of their pupils by dispensing kindness, and by demanding no courtesies which they do not cheerfully bestow.

*Ability to govern.*— Teachers who possess all other requisite qualifications rarely fail to discipline well. The true disciplinarian controls by the force of personal character.

“ Our hearts ne'er bow but to superior worth,  
Nor ever fail of their allegiance there:”

It is said of Dr. Raymond, late president of Vassar College, that “ he had the rare art of governing without seeming to do so. He rarely issued a command; but rarely was a request disobeyed by either his co-laborers in the faculty or by his pupils. He pervaded the college rather than ruled it; he was felt rather than obeyed.”

*Intellectual Attainments.*— Teachers should have liberal culture. It is not sufficient that they are well informed upon the specific topics that they are required to teach. They should have accurate general knowledge of a wide range of subjects. Their minds



should be well stored with treasures gleaned from many fields of human knowledge, that their instruction may be rich in illustrations gathered from many sources. Mr. Everett has said: "A teacher ought to know of everything much more than the learner can be expected to acquire. He must know things in a masterly way, curiously, nicely, and in their reasons. He must see the truth under all its aspects, with its antecedents and consequents, or he cannot present it in just that shape in which the young mind can apprehend it. He must, as he holds the diamond up to the sun, turn its facets round and round till the pupil catches its lustre."

Teachers, would they excel in their profession, must be close and constant students; their intellectual treasures must ever accumulate. It is by patient and continuous study only that the mind gains and retains its acuteness and activity. Through books, lectures, educational periodicals, and other sources of information, they must become familiar with the theory and practice of the most renowned and successful educators of the past and present. Our most enthusiastic and successful teachers are themselves industrious learners. In addition to their general reading, they have in hand at all times some specific subject to which they devote careful, vigorous, systematic study. They are ever learning, devising, and applying improved methods of instruction. The school-rooms of such teachers exhibit no listlessness, no dull routine; but their pupils are aglow with interest and enthusiasm. To such teachers, each day is a "new departure." Each succeeding day they and their schools occupy an advanced position and a higher plain of excellence.

*Moral Character.*—The first and indispensable requisite is a moral character above reproach and above suspicion. The young are imitative, susceptible, and easily moulded. What they observe in their superiors they copy and engraft upon their own characters. Since, therefore, there are ever emanating from the teacher—in consequence of what he is—moral influences which leave an indelible impress upon the character of his pupils, he should be pure in heart and life,—a perfect impersonation of morality and virtue. Washington Allston, the artist, one of the purest of men, was

accustomed to say to his pupils, "Purity of character is an essential to the highest success in art. Nature does not reveal her beauties to a mind obscured by any grossness of thought or feeling" If this is true of those who study and transcribe the inanimate, and whose choicest productions are of only transient duration, with how much stronger emphasis may it be said of those who would become familiar with the marvellous intricacies of the human mind, and are moulding characters that will be more enduring than time, that they should be the very embodiment of every virtue — a perpetual exhibition of "whatsoever things are true, and honest, and just, and pure, and lovely, and of good report."

But moral character is an achievement, a resultant for which we are responsible. Our deeds follow us, and what we are is a consequent of what we have been.

"The books say well, my brothers. Each man's life  
The outcome of his former being is."

#### PUPILS.

Whole number of persons in the city between five and fifteen years of age, on the first day of May last, as ascertained by the truant officer . . . . .	5,054
In Ward One . . . . .	1,556
"    Two . . . . .	1,630
"    Three . . . . .	883
"    Four . . . . .	985
Increase for the year . . . . .	554
Increase for ten years . . . . .	2,484
Number of pupils in attendance in May . . . . .	4,509
Number over fifteen years of age in May . . . . .	449
Number of pupils in attendance in December . . . . .	4,236
In the High School . . . . .	245
In the grammar schools . . . . .	2,072
In the primary schools . . . . .	1,919
Number over fifteen years of age in December, . . . . .	342
Whole number of pupils registered during the year . . . . .	5,540

Of all the pupils in the several schools at the present time, 5.78 per cent are in the High School, 48.92 per cent are in the grammar schools, and 45.30 per cent are in the primary schools.

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 WHOLE NUMBER.

SCHOOL.	Class.	Boys.	Girls.	Total.	Average Age.	Per cent.
High .....	First ....	8	28	36	18 yrs. 6 mos.	.85
" .....	Second ..	15	27	42	17 " 5 "	.99
" .....	Third ...	28	38	66	16 " 4 "	1.56
" .....	Fourth ..	49	52	101	15 " 8½ "	2.37
Grammar .....	First ....	68	87	155	14 " 8 "	3.64
" .....	Second ..	102	106	208	14 " 4 "	4.89
" .....	Third ...	156	165	321	13 " 1 "	7.56
" .....	Fourth ..	259	182	441	12 " 9 "	10.38
" .....	Fifth ....	276	194	470	11 " 1 "	11.06
" .....	Sixth ....	287	190	477	10 " 3 "	11.22
Primary .....	First ....	288	231	519	8 " 9 "	12.21
" .....	Second ..	359	253	612	7 " 9 "	14.40
" .....	Third....	474	314	788	6 " 1 "	18.87
Total.....		2,369	1,867	4,236		

#### ATTENDANCE.

Average whole number in all the schools for the year .	4,278.4
High School . . . . .	224.4
Grammar schools . . . . .	2,076.3
Primary schools . . . . .	1,977.7
Average attendance in all the schools for the year .	4,004.8
High School . . . . .	215.8
Grammar schools . . . . .	1,966.5
Primary schools . . . . .	1,822.5
Per cent of attendance in all the schools for the year .	93.6
High School . . . . .	96.1
Grammar schools . . . . .	94.7
Primary schools . . . . .	92.1

Number of tardinesses in all the schools for the year . . . . .	2,776
High School . . . . .	167
Grammar schools . . . . .	806
Primary schools . . . . .	1,803
Number of dismissals in all the schools for the year . . . . .	2,774
High School . . . . .	515
Grammar schools . . . . .	1,246
Primary schools . . . . .	1,013

## PRIMARY SCHOOLS.

Number of primary schools . . . . .	35
Number of pupils in attendance in January . . . . .	2,028
Number admitted during the year . . . . .	738
Number promoted to the grammar schools in June . . . . .	444
Number registered during the year . . . . .	2,766
Number in attendance in December . . . . .	1,919
Average age of pupils in September . . . . .	. 7 years 1 month.

Improvement in the general management of primary schools during the past few years has been very marked. Each succeeding year these schools are made much more attractive and profitable. With rare exceptions, they are places of pleasant resort to the pupils.

Children crave congenial employment. Teachers who possess the ability to keep their pupils pleasantly employed seldom have occasion to resort to severe discipline. It is gratifying to observe the rapid decrease in the number of punishments year by year. The number of cases, *pro rata*, during the year, is only forty-four per cent of the number in 1874. In several of the schools there has been no case of punishment within the year. In twenty schools the average number of cases to a school has been five, being only one case of punishment to every ten pupils for the entire year. In those schools, the liability of a pupil to receive punishment has been one in four thousand each session.



## EXHIBIT OF THE PRIMARY SCHOOLS.

SCHOOLS.	TEACHERS.	Average whole number.	Average attendance.	Per cent of attendance.	Number of tardinesses.	Number of dismissals.
Forster .....	M. H. Pennock...	50.0	47.2	94.4	6	13
“ .....	L. V. Colby .....	56.2	53.0	94.3	8	12
“ .....	L. G. Perry .....	48.2	44.6	92.5	11	12
† “ .....	A. T. Couch.....	41.5	39.0	93.9	1	3
Prescott .....	S. E. Pratt.....	52.0	49.8	95.7	4	22
“ .....	E. M. Plummer...	55.6	51.8	93.2	12	20
“ .....	E. F. Schuh.....	75.6	69.4	91.8	17	18
Edgerly .....	A. M. Cowles....	48.8	46.6	95.5	35	44
“ .....	A. L. Prescott....	55.3	52.4	94.7	44	31
“ .....	C. M. Bagley .....	67.1	61.5	91.6	87	24
Tufts Street ...	H. V. Hathaway..	43.8	40.1	91.6	61	24
“ .....	Ada Cowles .....	53.2	45.6	85.7	124	6
Luther V. Bell..	L. F. Appleton ...	55.1	51.0	92.5	45	32
“ .....	A. M. Houghton..	67.2	59.5	88.5	74	14
Prospect Hill..	A. I. Howe .....	53.3	49.1	92.0	49	66
“ .....	L. F. Howe .....	49.5	45.9	92.6	50	21
“ .....	C. I. Houghton...	48.9	45.0	91.8	48	35
Brastow .....	J. D. Harding....	50.8	47.0	92.5	33	12
Bennett .....	Maria Miller .....	50.4	46.4	92.0	37	12
“ .....	M. B. Currier .....	57.6	54.0	92.6	24	13
* “ .....	E. F. Schuh.....	61.5	55.7	90.5	15	9
Jackson.....	R. F. Woodberry..	43.8	41.4	94.5	82	34
“ .....	M. M. Hobson....	44.8	41.6	92.8	33	17
“ .....	A. E. McCarty....	47.7	42.3	92.8	55	4
* Webster .....	N. O'Leary. ....	44.0	41.8	95.1	48	12
“ .....	A. L. Savage.....	52.0	48.5	93.3	78	16
Union .....	I. M. Prince .....	54.0	52.0	96.3	13	10
Morse .....	C. N. Sanderson..	59.4	53.8	90.6	24	60
Beech Street ...	H. W. Chapin....	56.8	52.4	92.3	80	50
Spring Hill....	A. E. Furber.....	53.1	46.8	88.1	70	31
Franklin .....	E. C. Ruggles....	53.1	49.1	92.4	54	1
“ .....	C. M. Shannon,..	52.6	48.8	92.7	58	24
Harvard .....	A. E. Robinson....	56.4	52.4	92.9	103	29
† Lincoln .....	E. M. White .....	29.2	26.7	91.4	4	5
Wallace Street..	C. L. Lacount ....	49.6	47.8	96.4	9	44
“ .....	S. E. Pray .....	47.2	43.6	92.3	10	23
Holland Street..	M. A. Paul.....	39.2	36.2	92.3	34	72
Cedar Street ...	A. M. Porter .....	53.2	42.7	80.3	263	138
		1977.7	1822.5	92.1	1803	1013

\* Discontinued in September.

† Organized in October.

## GRAMMAR SCHOOLS.

Number of grammar schools . . . . .	46
Number in attendance in January . . . . .	2,260
Number graduated in June . . . . .	140
From the L. V. Bell School . . . . .	46
" Prescott School . . . . .	40
" Forster School . . . . .	22
" Morse School . . . . .	22
" Lincoln School . . . . .	10
Number promoted to the first class in June . . . . .	144
" " " second class in June . . . . .	235
" " " third class in June . . . . .	315
" " " fourth class in June . . . . .	367
" " " fifth class in June . . . . .	423
" " " sixth class in June . . . . .	444
Number in attendance in December . . . . .	2,072

Of the one hundred and forty pupils graduated at the grammar schools in June, one hundred and eighteen applied for admission to the High School, one hundred and thirteen passed a satisfactory examination, and ninety-seven entered the school in September.

RESULT OF THE MONTHLY EXAMINATIONS AND OF THE ANNUAL EXAMINATION OF PUPILS FOR ADMISSION TO THE HIGH SCHOOL.

No. of Pupils.	Schools.	Average Age.	High School Examination.	Monthly Examinations.	Average.
36	Prescott.....	15 yrs. 8 mos.	87.1	79.1	83.1
31	L. V. Bell...	15 " 2½ "	79.5	76.5	78.0
21	Morse.....	14 " 8 "	83.5	78.8	81.1
17	Forster.....	15 " 2½ "	86.0	80.4	83.2
8	Lincoln.....	14 " 9 "	83.4	75.0	79.2
113	Average.....	15 " 2 "	83.9	78.2	81.0



The high average per cent obtained by the applicants, the neatness of their papers, and their unexceptionable deportment during the examination, of two days' continuance, were highly creditable to the pupils, and indicative of the superior instruction and training which they had received in their respective schools.

With few exceptions we can speak of our grammar schools in decided terms of approval. The fidelity of the teachers; the quality of their instruction, the excellent order maintained by them, the respectful demeanor of the pupils, and the evidences everywhere apparent of the pleasant relations existing between teachers and scholars, all claim commendation and are causes of congratulation.

In six grammar schools there have been no cases of punishment during the year. In twenty schools the average number of cases to a school has been only four. In three schools there have been no cases of tardiness this year. In twenty schools the average number of cases to a school has been only four for the entire year. In one building, containing nine grammar schools, with an average attendance of 407 pupils, there have been only 41 cases of tardiness during the year; and in another building, containing five grammar schools, with an average attendance of 243 pupils, the number of cases has been only 21 for the year. The record of many schools in other buildings is highly creditable in this regard.

## EXHIBIT OF THE GRAMMAR SCHOOLS.

SCHOOLS.	TEACHERS.	Average whole number.	Average attendance.	Per cent of attendance.	Number of tardinesses.	Number of dismissals.
Forster.....	J. S. Hayes.....	55.0	53.2	96.7	2	8
" .....	M. E. Northup ....	44.2	42.2	95.5	2	28
" .....	F. M. Guptill.....	48.8	45.8	93.9	3	22
" .....	N. M. Whitney.....	52.8	50.4	95.4	5	23
" .....	A. A. Batchelor....	54.4	51.4	94.5	9	19
Prescott.....	G. A. Southworth..	40.4	39.6	98.0	0	0
" .....	V. E. Hapgood....	48.4	47.0	97.1	2	7
" .....	Adelaide Reed.....	38.0	36.6	96.3	4	9
" .....	F. P. Hudson.....	39.4	38.2	96.9	2	12
" .....	A. A. Anderson....	52.4	50.4	96.2	2	5
" .....	A. I. Sears.....	51.6	49.8	96.5	3	17
" .....	N. W. Proctor.....	53.4	51.4	96.2	3	18
" .....	Clara Taylor .....	50.0	47.6	95.2	16	32
" .....	C. T. Brown .....	49.4	46.8	94.7	9	22
Edgerly .....	H. N. Sands.....	46.8	44.8	95.7	31	36
Luther V. Bell..	Robert Bickford...	47.4	45.6	96.2	8	27
" ..	C. A. Battles .....	40.4	39.2	97.5	6	16
" ..	L. L. Gordon.....	33.6	31.6	94.0	18	30
" ..	E. M. Gooding ....	41.2	39.4	95.6	20	19
" ..	C. S. Plimpton ....	44.6	43.6	97.7	17	27
" ..	A. C. Hunt.....	43.2	40.8	94.4	19	72
" ..	F. A. Wilder .....	41.2	37.0	89.8	10	23
" ..	M. E. Berry.....	42.6	40.8	95.8	12	20
" ..	A. M. Snow.....	49.4	47.4	95.9	38	26
" ..	L. J. Page.....	52.0	49.0	94.2	26	16
Prospect Hill..	A. A. Roberts .....	48.4	44.4	91.7	23	58
* " ..	Maria Miller .....	39.6	37.6	94.9	28	18
" ..	A. C. Damon.....	52.5	47.9	91.2	27	56
" ..	Ellen Ledyard.....	50.3	46.2	91.8	17	66
Brastow.....	S. E. Pennock.....	37.8	36.2	95.7	23	15
Bennett .....	Helen Tincker.....	51.8	47.6	89.2	27	12
Jackson.....	L. W. Shelton.....	46.1	43.0	93.3	38	25
Webster.....	A. L. Sanborn.....	34.4	31.8	92.4	28	6
Morse.....	C. C. Hunkins.....	24.0	23.2	96.6	0	0
" .....	N. P. Nichols.....	38.2	36.8	96.3	0	27
" .....	P. S. Downes.....	43.4	42.2	97.2	6	27
" .....	C. N. Burgess.....	49.4	46.2	93.5	26	58
" .....	A. E. Sawyer.....	41.2	39.2	92.7	16	33
Beech Street...	M. A. Haley.....	47.4	44.6	94.1	32	66
Franklin.....	J. E. Clark.....	35.6	32.2	90.4	58	48
" .....	H. A. Hills.....	39.0	36.0	92.3	56	17
Lincoln .....	G. E. Nichols.....	28.4	27.6	95.1	3	12
" .....	Jennie Colburn....	38.6	35.8	92.7	22	26
" .....	Georgiana Cutter..	36.8	34.4	93.4	25	30
" .....	L. J. Conwell.....	42.4	40.6	95.8	18	21
" .....	A. F. Hills .....	51.4	48.2	93.7	20	49
Cedar Street....	Alice Simpson.....	39.0	35.2	90.3	46	42
		2076.3	1966.5	94.7	806	1,246

\* Discontinued in September.

## HIGH SCHOOL.

Whole number of different pupils during the year . . . . .	337
Largest number at one time . . . . .	254
Number admitted during the year . . . . .	109
From our grammar schools . . . . .	97
From other schools . . . . .	12
Number graduated . . . . .	27
Number of graduates who entered college . . . . .	6
Number who have left the school during the year exclusive of graduates . . . . .	64
Whole number at the present time . . . . .	246
Number over fifteen years of age . . . . .	218
Number in course preparatory to college . . . . .	64
Number pursuing the regular course . . . . .	146
Number pursuing the English course . . . . .	36
Number in the first class on entering the school . . . . .	83
Number at the present time . . . . .	36
Number in the second class on entering the school . . . . .	95
Number at the present time . . . . .	42
Number in the third class on entering the school . . . . .	100
Number at the present time . . . . .	66
Number in the fourth class on entering the school . . . . .	107
Number at the present time . . . . .	101

Two of the graduates entered Harvard College, three the Boston University, one the Wesleyan University, one the Boston College, and two the Institute of Technology.

In the report of last year, allusion was made to the excellent facilities afforded by this school to those wishing to enter any scientific or professional school. It is gratifying to know that the number of pupils who wish to avail themselves of these facilities is yearly increasing. It may be wise to make a scientific-school preparatory department a distinctive feature of the school, since it can be done without detriment to any other department of the school.

It is worthy of remark that careful observation shows that very few pupils who are well on entering the school, are obliged to leave it on account of ill health; and it is noticeable that many gradually

improve in health during their continuance in the school. The excellent condition of pupils at the time of their graduation shows that the regular habits and exercise required in attendance at school, and a proper amount of mental labor, are conducive to good health.

The labor required to perform the duties demanded by the school is not excessive. The average time for study out of school hours is nine and one half hours per week; those in the course preparatory to college studying more, the others less.

The school has an honorable record, and has always merited the favor with which it has ever been regarded by our citizens. Its present claim to public confidence has never been surpassed at any previous period in its history. For a series of years it has been in charge of a principal who, to rare scholarship and judicious management, adds untiring devotion to its interests. The principal is assisted by a corps of competent, faithful, and accomplished teachers. Superior instruction is imparted in each of the various departments of the school. As an evidence of the industry of pupils and the thoroughness of the instruction received by them, those who entered Harvard College passed the ordeal without conditions. The excellent order that prevails in the several rooms at all times, and the uniform courtesy and respectful deportment of the pupils under all circumstances, occasion general comment and commendation.

TWENTY-EIGHTH ANNUAL EXHIBITION OF THE SOMERVILLE  
HIGH SCHOOL, THURSDAY, JUNE 24, 1880.

ORDER OF EXERCISES.

SINGING. — Chorus: "Let the hills and vales resound." *Richards.*

Duet and Chorus: "Ye spotted snakes." *Mendelssohn.*

1. SALUTATORY IN LATIN. CHAS. F. AIKEN.
  2. ESSAY. — *House Cleaning.* M. GRATIA MOORE.
  3. DECLAMATION. — Count Eberhard's Last Foray.  
HIRAM G. HAMMETT.
  4. READING. — At the Theatre. *Fielding.*  
ADELINE E. LOVERING.
  5. ESSAY. — *Moderation.* ELLA A. TARBELL.
- SINGING. — Bride Bells. (Female Voices.) *Roeckel.*  
Solo and Chorus: Daughter of Error. *Bishop.*



6. READING. — How Persimmons took Care of the Baby.  
EMMA L. PRAY.
7. From "Julius Cæsar." (Original Version in Greek.)  
WALTER S. BARNES, JR., GEO. L. TAFT.
8. ORIGINAL CONTRIBUTIONS. JENNIE C. APPLETON.

## MUSIC.\*

- SINGING. — Trio (in canon): "Je rends à votre amour." *Rossini.*  
Unison Solo: Palm Branches. *Faure.*
9. L'Art de l'Eloquence à la mode.  
SARAH E. DAVIS, ELLA L. TIBBETTS, NIDA M. PENNOCK,  
MARY P. BANKS.
10. ESSAY. — *Is Oratory a Lost Art?* SAMUEL G. CHADBOURNE.
11. READING. — The Pemberton Mills. HARRIET L. FURBER.
12. ESSAY. — *Pickles.* LOTTIE M. FARRINGTON.
- SINGING. — Duet and Chorus: "I waited for the Lord."  
*Mendelssohn.*
13. POEM. MINNIE W. JACKSON.
14. PROPHECIES. ELLEN A. COLE.
- SINGING. — Trio: Ave Maria. (Instrumentation by Henry Hadley.)  
(By the young ladies of the Graduating Class.) [*Abt.*]
15. VALEDICTORY. CORA W. FOSTER.
16. PRESENTATION OF DIPLOMAS, by MAYOR GEO. A. BRUCE.
17. PARTING HYMN.

## MEMBERS OF THE GRADUATING CLASS.

Jennie Crowninshield Appleton,	Minnie Ward Jackson,
Ellen Adine Cole,	Adeline Elizabeth Lovering,
Sarah Elizabeth Davis,	Mary Gratia Moore,
Lottie Maria Farrington,	Hattie Adele Packard,
Lillie Minott Fiske,	Nida Marion Pennock,
Minnie Louise Flagg,	Emma Louisa Pray,
Cora Woodward Foster,	Eunice Wetherbee Shedd,
Harriet Louise Furber,	Ella Augusta Tarbell,
Minnie Louise Harwood,	Martha Williams Tenney,
Harriet Frances Homer,	Lillian Estella Tower,
Lucy Bell Hutchinson,	Hiram Gates Hammett.

## OF THE COURSE PREPARATORY TO COLLEGE.

Caroline May Taylor,	Samuel George Chadbourne,
Ella Louise Tibbetts,	George Lund Taft.
Charles Francis Aiken,	Walter Saunders Barnes, Jr.

\*Hadley's Orchestra.

## EXPENDITURES FROM JAN. 1, 1880, TO JAN. 1, 1881.

## BY THE CITY COUNCIL.

Repairs and permanent improvements,	\$6,275 72	
Rent of school-rooms . . . . .	842 50	
Insurance . . . . .	236 80	
Fuel . . . . .	3,249 16	
	<hr/>	\$10,604 18

## BY THE SCHOOL COMMITTEE.

Teachers' salaries . . . . .	\$60,715 71	
Superintendent's salary . . . . .	1,800 00	
Janitors' salaries . . . . .	3,268 26	
Truant officers' salaries . . . . .	412 50	
Water . . . . .	486 79	
Gas . . . . .	252 11	
Books . . . . .	656 00	
Writing-books . . . . .	421 00	
Stationery and other school supplies . . . . .	751 00	
Miscellaneous . . . . .	1,100 84	
	<hr/>	69,864 21
Total expenditures . . . . .		<hr/> \$80,468 39

## RECEIPTS.

Tuition of non-resident pupils . . . . .	\$44 00	
Rent of school halls . . . . .	798 52	
Sundries . . . . .	1 05	
	<hr/>	843 57
Net expenditures . . . . .		<hr/> <hr/> \$79,624 82

## COURSE OF STUDY.

*Changes.* — At the regular meeting of the Board in January, a special committee was appointed to consider and report upon any changes in the course of study which in their judgment might seem desirable.

In accordance with the recommendation of that committee, Guyot's Introduction to Geography was introduced into the sixth



class, and the use of the spelling-book was discontinued in that class. The metric system of weights and measures is to be studied in the grammar schools in the order in which it occurs in the text-book used by the several classes. The study of geography and history is to be pursued by the first class one half of the year instead of the entire year as heretofore; history being studied during the first half of the year and geography the last half of the year. The time thus gained by the class is to be devoted to the study of various topics of general interest. The first class will be examined in history at the close of the first half of the school year, but not at the time of the usual annual examination for admission to the High School.

The selection, arrangement, and apportionment of studies form an essential part of the duties of the School Board, and require careful consideration and deliberate judgment. The studies now pursued in the schools have been adopted by common consent as the most valuable selection that can be made. None of these can be omitted without detriment, and it is questionable whether it is judicious to add thereto materially. It may be well, however, to consider whether or not the relative value of the several studies is commensurate with the time devoted to them respectively.

*Arithmetic.* — The results secured in arithmetic are very satisfactory. The subject is well taught and is pursued by the pupils with a good degree of interest and enthusiasm. Possibly it receives more than its due proportion of time and attention. Already we have eliminated several of the less important subjects contained in the text-book now in use. We think that other omissions might be made with profit.

An arithmetic in which unimportant subjects — subjects of little practical value — will be taken from the body of the work and arranged in an appendix by themselves, is a desideratum.

*Geography.* — Measures have been taken within the year to reduce the time heretofore devoted to geography; and when the proposed plan is in full operation, this subject will not occupy an undue proportion of attention.

No geography designed for use in all parts of the country can be exactly adapted to the schools of any particular locality. Hence, discretion is required in the assignment of lessons, in order that the several topics considered may receive attention in proportion to their relative importance.

The geography used in the schools is well arranged. Prominence is given to countries and subjects in which we are especially interested. It contains 153 pages, 69 of which — or 45 per cent of the whole — are devoted to the United States. As much space is given to the New England States alone as to both Europe and Asia. But notwithstanding this discrimination, there are numerous unimportant details recorded concerning remote countries, and map questions calling for the location of insignificant places, rivers, etc., all of which judicious teachers omit in their assignment of lessons.

*History.* — History is aptly styled “Philosophy teaching by example.” It is a record of causes and their consequences, an exhibition of the thoughts of those who have guided the affairs of the world hitherto. Since “the proper study of mankind is man,” history is justly regarded one of the most important of all the studies of the schools. It may be made one of the most interesting, also.

As time advances, history rapidly accumulates. Each succeeding generation of pupils has an increased amount of it to study. One third of the text-book used in the grammar schools is devoted to the events which have transpired in our country during the last twenty years.

Within the year just closing, we have reduced the time heretofore devoted to history one fourth. In order that pupils may suffer no material loss by this reduction, a change of methods in teaching this subject becomes necessary. A careful discrimination must be made between the more important and the less important events recorded; and while the entire contents of the text-book should be read, those portions only which are of the most importance are to be studied with care. The statement of Bacon, that “Some books are to be read only in parts; others to be read, but not curiously; and some few to be read wholly, and with diligence and attention,” is

especially applicable to different parts of most of the text-books of the schools. To assist pupils in making judicious selections of those portions of their text-books, which claim especially their careful study, is an essential part of every teacher's duty.

It is obvious that only a very limited amount of historical knowledge can be gained in the brief time devoted to its attainment in the schools. But great gain is secured when this important subject is presented in a form so attractive as to inspire pupils with a love for its pursuit, and when the art of studying it to the best advantage is acquired.

Geography and chronology are termed the eyes of history. We would discourage the practice of burdening the minds of pupils with the dates of minor events; but would have the leading events of history and the time and place of their occurrence so intimately associated, and so thoroughly learned, that the mention of either would immediately suggest the other two.

Recitations in history become valuable exercises in language, when pupils do not confine themselves to the words of the text-book, but make clear statements, in their own language, of the events described.

*Music.* — A systematic course of instruction in music is given to the High School and the several grammar schools by Mr. Hadley, who is assisted by the regular teachers. Great interest is taken in the study and practice of music by all the schools, and very satisfactory results are secured.

The sixth class learn notation, the rudiments of music, the chromatic scales, and sing two-part songs in the Second National Music Reader. The fifth class learn the transposition of the scales, and sing in all the keys. The fourth class finish the Second Reader, sing three-part songs in the Third Reader, and learn thoroughly all the keys. The third class finish the Third Reader, begin the Fourth Reader, and learn the bass clef and the minor scales. The second class continue the Fourth Reader, practise solfeggios in treble and bass clefs, and sing in three and four parts. The first class finish the Fourth Reader, and sing any ordinary tunes in three and four parts.



In the High School the practice of singing by note is discontinued, and pupils sing at sight the tunes contained in the Fifth or High School Music Reader, which contains music of the highest order, from the best masters. This school, at the annual exhibitions, uses the music which is performed by the various clubs in Boston, such as the Boylston, Cecilia, and Handel and Haydn.

*Drawing.* — The grammar-school course in drawing, as outlined by the series of books used in the schools, includes instruction, 1. In designs for flat surfaces, as geometric forms and their combinations; natural forms, as leaves, flowers, etc.; and historic designs. 2. In the representation of solid forms or objects. 3. In the construction of industrial objects.

In many of the schools we secure very satisfactory results within a limited range of subjects. Previous to the present year, our work has been confined mainly to designs for flat surfaces. During this year, however, we have taken some important steps in advance of the work of former years. Pupils in the first class are receiving instruction in geometrical drawing, in the elements of perspective, and in the representation of solid forms, including the facts of form and their modifications.

The entire course contains a series of twelve books, numbered 3 to 14. Nos. 1 and 2 are designed for the primary schools. Thus far we have used only the first nine books of the series.

Drawing is a statute requirement, and popular sentiment claims for it a place among the essential branches of study in the public schools. We would not have it engross an undue amount of time and attention, but would give to it all the care which its relative importance demands. Many of our teachers exhibit rare skill in teaching drawing. They find their reward for the labor bestowed in acquiring their skill, in the proficiency of their pupils.

We would suggest that in our examinations of applicants for positions as teachers, proficiency in teaching drawing be regarded an indispensable qualification.

*Writing.* — Graduates of our schools should have acquired a good style of penmanship, and what is still more important, great free-

dom in the proper use of the pen. It must be regarded a reflection upon the schools when these results have not been secured.

Teachers of no particular grade are entirely responsible for results; but the responsibility does rest largely with teachers of the lower grades, whose pupils begin the use of pencil or pen. In order that the desired results may be fully realized, pupils must be required, from the very first and at all times throughout their course, to use the implements for writing in a proper manner. The muscles quickly form habits, and when habits first formed become fixed, it is almost impossible to change them.

The temptation to secure immediate results is very strong; but a permanent good should never be sacrificed to a present gain. Little value should be attached to a good specimen of writing, if in securing it an erroneous habit has been contracted. No well-directed learner of a mechanic art attempts the construction of a nice piece of mechanism until he has first acquired the skilful use of the implements of his art.

The first aim of the teacher of penmanship should be to secure a natural, and consequently an easy and graceful position of the body. It is painful to witness the constrained and awkward posture of many pupils during an exercise in writing. Next to the correct position of the body, that of the head, the arm, the hand and fingers must be secured. Then the way is prepared for drill exercises for securing freedom and rapidity of movement. The old maxim, "Do what is right and habit will make it easy," is entitled to a conspicuous place in every school-room. Correct practice, constantly adhered to, will inevitably secure commendable results, as is clearly demonstrated in many schools.

*Spelling.* — No one whose aim is accurate scholarship will be neglectful of this important branch of study.

Worcester's Dictionary of the English Language contains about 104,000 words; but it is estimated that the vocabulary of most persons does not include more than 3,000 words. By careful observation and patient study, any person of average ability can learn to spell correctly all the words in his vocabulary which he may have occasion to use in his written communication.



We are employing in our schools all known means for assisting pupils to spell correctly. Spelling, oral and written, forms a part of each day's exercises. Words from the spelling-book and all other text-books are studied. Special attention is directed to all new words as they occur in the several lessons. Lists of words are provided by the teachers. Paragraphs from the reading books are copied. Imperfect spelling in all language lessons is corrected. Words frequently misspelled are written correctly upon the blackboards. Pupils frequently exchange slates and papers and correct each other's exercises. Corrected words are re-written. Spelling-matches and various other expedients are employed whenever interest in the ordinary means declines.

Since written spelling is more practical, written exercises predominate; but oral spelling has its peculiar advantages. It secures correct pronunciation and distinct articulation, since every word is correctly and distinctly pronounced before and after it is spelled. Habits of attention are induced when teachers pronounce the words but *once*. We think that in all recitations, one clear statement of a question is sufficient. Repetition fosters the habit of inattention.

Observation convinces us that the younger pupils obtain a clearer idea of the structure of words, and are assisted in learning new words, by following the time-honored custom of pronouncing the syllables. For the older pupils it is sufficient to mark the syllables by a pause.

A good spelling-book is a valuable aid in teaching spelling. Pupils suffer loss whenever its use is omitted. Our discontinuance of its use in the primary schools and in the sixth class of the grammar schools is not, as was stated in the report of last year, on account of any hostility to this class of text-books, but rather in consequence of the lack of adaptation of the books now in use to the capacity of pupils who were using them.

*Reading.* — The ability to read in a graceful and impressive manner is an accomplishment which all should labor to secure. Its attainment requires careful study and patient, long-continued practice, in accordance with well-established rules.

Realizing the value of this branch of instruction, we are devoting

to it a large share of the time and attention of the schools. Reading books adapted, as far as possible, to the capacity of pupils, have been multiplied. Each of the several classes of the primary schools, and the sixth class of the grammar schools, are provided with two readers. The first and second classes of the primary schools have been supplied—much to their advantage—with the “Little Folks’ Reader,” each month during the year. Supplementary reading has been furnished to several classes of the grammar schools. The results secured by this increased amount of reading are, greater familiarity with words, much greater fluency in reading at sight, and a quicker apprehension of the meaning of what is read.

Reading as a fine art is so difficult of attainment, only a comparatively small number, even of those who make it a lifelong study, become eminent artists. Occasionally we witness fine examples of rhetorical reading at the annual exhibitions of the public schools, but these are necessarily exceptional; for the numerous subjects which claim the attention of the schools prevent the amount of practice requisite to prepare persons to become pleasing and effective public speakers or readers. The most that we claim to accomplish in this, as in other departments of our work, is to lay a good foundation on which our pupils may build in coming years, as their inclination or circumstances may determine.

In order to be a good reader a person must possess perfect vocal organs, well trained and under good control; an accurate knowledge of the grammatical structure of language; the ability to see at a glance, not only the words, but the phrases and clauses of entire sentences; quickness of comprehension; and as each emotion has its own mode of expression, he must be able to sympathize readily with the emotion which the author would awaken.

In our schools we labor to secure familiarity with words, fluency of expression, correct pronunciation, distinct articulation, and that flexibility of voice which proper inflections, modulation, pitch, and tone require; and above all, we endeavor to cultivate the understanding of our pupils, that they may comprehend the meaning of what they read.

*Language.* — The distinguished poet and sculptor, W. W. Story, says : —

“ Give me, of every language, first my vigorous English,  
 Stored with imported wealth, rich in its natural mines,  
 Grand in its rhythmical cadence, simple for household employment,  
 Worthy the poet’s song, fit for the speech of man.  
 Therefore it is that I praise thee and can never cease from rejoicing,  
 Thinking that good stout English is mine and my ancestor’s tongue.”

From the time that our pupils first enter the primary schools until they graduate at the High School, the study of language in some form engrosses a large share of their attention, but the results secured in this branch of study are less satisfactory than those of any other study of the schools. The reason is obvious. “ Speech is acquired mainly by imitation.” Children invariably adopt the language of those with whom they associate. Unfortunately, much of the language which many pupils are compelled to hear, and which they naturally imitate, is neither accurate, elegant, nor pure. It has been truthfully said, that “ Of all modern languages the English probably stands pre-eminent. It is characterized by simplicity, strength, and copiousness. It is full of vigor and energy like the people by whom it is spoken; but no other tongue of a civilized people is so badly spoken or written. Inelegances and malformations of every description abound among all ranks and conditions of men, the high and the low, the learned and the unlearned; even the professions are not totally free.”

On the schools, therefore, devolves the labor, not only of teaching the correct use of language, but — what is a much more difficult task — of eradicating erroneous habits of speech, and of counteracting pernicious examples.

All approved methods for assisting pupils to acquire facility in the correct use of language are employed in our schools. In the primary schools the youngest children are encouraged to give expression to their thoughts. As soon as they can write they begin to construct sentences, to describe pictures and to write stories suggested by them, to reproduce from memory stories read or related to them by their teachers. They receive instruction in



letter-writing, in the use of capitals and punctuation marks. In the grammar schools every recitation is made an exercise in language. Pupils, in giving their answers, are required to make complete statements in their own language, except when rules or definitions are recited. They make a note of all inaccurate or inelegant expressions which they observe, and at stated periods these are corrected. Exercises in composition are of frequent occurrence. Technical grammar is introduced at the beginning of the last half of the third year, and is studied during the remainder of the grammar-school course. In the High School, the study of language, in some form, engrosses a large share of time and attention.

In this brief summary we have merely outlined the course of study pursued in the grammar schools. In the High School the range of topics pursued is broader, and the course of study is more extended; but pupils, in consequence of their greater maturity and the habits of study which they have formed, find themselves equal to the work required of them in that school.

All subjects of thought and study are exhaustless. The most profound students, who make some single topic a specialty for a lifetime, do not advance far beyond the rudiments of their favorite study. That renowned philosopher, whose researches surpassed those of all other men, at the close of a long life of laborious study, and with vast accumulations of knowledge, compared himself to a child picking up pebbles on the shore of the great sea of truth.

The studies of the schools are necessarily elementary in character and limited in extent, but the work performed by them is by no means superficial. Pupils who faithfully and industriously pursue the course of study marked out for them, — and most of them do, — lay for themselves a firm foundation for the studies and duties of subsequent years. They gain possession of the keys of knowledge, develop their mental energies, acquire habits of study, of self-control, self-reliance, order, promptness, punctuality, obedience, respect for authority and the rights of others.

The observations of each succeeding year enhance our estimation

of the importance of our public-school system, and of the wisdom of those by whom it was inaugurated, — a system that secures to all, irrespective of social condition, the means for obtaining a substantial education, and from whose elevating influences thousands of youths yearly go forth to assume the responsibilities of citizens and to adorn and bless the communities in which they dwell.

With sincere thanks to you, gentlemen, for your uniform kindness and co-operation, this report is respectfully submitted.

J. H. DAVIS,

*Superintendent of Public Schools.*

DECEMBER 27, 1880.



ANNUAL REPORT  
OF THE  
SOMERVILLE MYSTIC WATER BOARD.  
1880.

## CITY OF SOMERVILLE.

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IN BOARD OF MAYOR AND ALDERMEN, Feb. 22, 1881.

Report accepted. Referred to the Committee on Printing, with instructions to print the same in the Annual Report of 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

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IN COMMON COUNCIL, Feb. 23, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

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IN WATER BOARD, Feb. 3, 1881.

*To the Water Board of the City of Somerville :*

The Somerville Mystic Water Board respectfully submit their report for the year ending Dec. 31, 1880, and with it the report of the superintendent, giving in detail a statement of the city's property in water works and the work accomplished under his supervision during the year.

In brief, his report shows the total amount of distribution of water pipe, now laid in the city of Somerville, to 45 miles and 852 feet.

Whole number of stop-gates set, 370.

Whole number fire hydrants, 278.

There have been added to the distribution mains 1,331 feet.

There have been relaid 1,340 feet.

Two stop-gates and eight hydrants have been set.

Four stop-gates have been removed.

Ninety-four new service pipes have been laid in length, 3,462½ feet, at an average cost of \$18.25 each.

Water is supplied to 3,569 dwelling-houses, 4,700 families, 139 stores and saloons, 10 churches, 29 offices, halls, and clubs, 26 manufactories, 85 public schools, 654 stables, 271 fire hydrants, 8 public drinking fountains, and 40 miscellaneous.

Value of water works, Dec. 31, 1880, \$342,000.

We refer to the report of the city treasurer for details of the expenditures on the construction, maintainance, and service account.

As in previous reports, the attention of the Board is directed by the superintendent, this year, to the perishing condition of the pipe that was laid from 1865 to 1870 by the American Patent Water and Gas Pipe Company.

This list of streets, sixteen in number, is a most formidable one to contemplate when we consider the fact that every foot of pipe in them ought to be replaced this year.

It must, however, be borne in mind that this pipe when laid was warranted for only five years, and that it was made when its manufacture was only an experiment, and the quality vastly inferior to that of the pipe made and laid by the Board at the present time.

It is our conviction that the durability of this imperfect pipe made by the American Patent Water and Gas Pipe Company, which has fairly stood the test of from twelve to fifteen years' work, justifies us in the opinion that the pipe we are now making will prove to be as imperishable as stone.

With more perfect machinery for its manufacture, that will obviate all danger from defective lining, we believe this cement pipe may be made comparatively perfect, with a durability nearly if not quite equal to that of iron, and at about two thirds cost.

This view of the situation, we think, justifies us in asking for such liberal appropriations for this work as will secure the relaying of such of those streets as are actually in a perilous condition, thereby saving the city from the wasteful expense of constant repairs that cost extravagantly without effecting a remedy.

We regard it as economy for the city to borrow money, if need be, with which to do this work, rather than spend many times the amount of interest paid for such loan on patches and repairs that afford only temporary relief.

March 22, 1880, it was ordered by the City Council that the expense and maintenance of the fire hydrants be transferred from the Fire Department to the Somerville Mystic Water Board.

Since that time this charge has been an item of no inconsiderable expense to the Board, which fact we commend to your notice in the appropriation of moneys.

During the summer and fall just past, the extreme drought which prevailed made it necessary to restrict the consumption of water,

in accordance with instructions issued by the Boston Water Commissioners. To deprive our citizens of the full and unrestricted use of that for which they are paying so liberally, and have such a large amount of money invested, is a hardship not easily borne. Especially heavy has the burden been felt by the citizens living on the highlands of Somerville, whose water supply, always secondary to that of residents on the lowlands, is never fully adequate to their wants, never sufficient to be a security against the damages of fire, and to some an absolute failure in times of drought. This statement applies, in a greater or lesser degree, to at least 250 houses, occupied by more than 400 families, on Winter, Central, and Spring Hills. There are about 225 acres of beautiful land on these hills, of an average value of more than \$9,000 per acre, and a total valuation exceeding \$2,000,000, a large portion of which lies unimproved ; which fact, it is fair to assume, is in a measure due to the present inefficient means of water supply.

The constant appeal which, through long suffering, is made by the people living on the highlands, for some means to be devised that shall meet this need of high service, cannot be relieved by this Board without the co-operation of the City Council.

To introduce a system which will effectually remedy the existing evil, and furnish to the inhabitants of that district a supply of water commensurate with the demand made upon them in payment thereof, will incur the expenditure of a large sum of money. It is a matter of such great importance, and the call for relief is so urgent, that this Board respectfully suggest the necessity of a careful consideration of the matter by the City Council, to the end that some relief may be devised.

Respectfully submitted,

EDWARD FOOTE,

*Chairman.*



## 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, 1879, to Dec. 31, 1880.

### WATER PIPE LAID, GATES AND HYDRANTS SET, 1880.

LOCATION.	Distribution Pipe laid.		Stop-Gates set 6-inch.	Hydrants set.	Hydrant Pipe laid.	
	6 in.	8 in.			4 in.	6 in.
Columbus Ave., from Bonner Ave., easterly....	168	.....	.....	1	9	
Hathorn St., Broadway to Arlington St.....	376	.....	1			
Homer Square .....		.....	.....	1	18	
*John P. Squire & Co.'s premises .....	480	175	1	1		
Merriam St., near Charlestown St.....		.....	.....	1	7	
Oxford St., near Trull Lane.....		.....	.....	1	8	
Somerville Ave., end old pipe to near Franklin Ct.	42					
Somerville Ave., near and east of Beech St.....		.....	.....	1	.....	18
Washington St., near and east of Franklin Ave...		.....	.....	1	.....	17
Washington St., near and west of Florence St...		.....	.....	1	.....	13
	1,066	175	2	8	42	48

\* Cost of manufacture and laying paid by John P. Squire & Co.

## WATER PIPE RELAID IN 1880.

LOCATION.	3 in.	4 in.	6 in.	8 in.	10 in.
Allen Street.....		240			
Allen Street, near Charlestown Street.....		14			
Beacon Street, near Ivaloo Street.....			14		
Beacon Street, near Park Street.....			7		
Beacon Street, near Concord Avenue.....			7		
Belmont Street, near Summer Street.....		7			
Brook Street.....		14			
Cedar Street, near Clyde Street.....			7		
Cedar Street, near Murdock Street.....			7		
Chestnut Street, near Poplar Street.....		7			
Craigie Street, near Elm Street.....		14			
Cutter Street, near Broadway.....		14			
Elm Street, near Somerville Avenue.....			8		
Franklin Street, near Oliver Street.....			7		
Franklin Street, near Washington Street.....			21		
George Street.....		14			
Hanson Street, near Nevada Avenue.....		14			
*Holland Street, east of and near Elmwood Street.....					35
†John P. Squire & Company's premises.....			764	236	
Kent Court, near Kent Street.....		7			
Linden Avenue.....		7			
Linden Street, near Charlestown Street.....			7		
Linwood Street, near Congress Place.....			7		
Medford Street, near Somerville Avenue.....				7	
Mondamin Court, near Ivaloo Street.....		7			
Myrtle Street, near Washington Street.....				7	
Nevada Avenue, near Village Street.....	7				
Pinckney Street, near Pearl Street.....			7		
Porter Street, near Elm Street.....		7			
Sacramento Street, near Beacon Street.....			7		
Shawmut Street, near Medford Street.....		7			
Skehan Street, near Dane Street.....		7			
Somerville Avenue, in Union Square.....				7	
Somerville Avenue, near Belmont Street.....			7		
Totals.....	7	164	877	237	35

\* Old pipe relaid on new foundation.

† Relaid on account of changes in buildings: cost paid by J. P. Squire & Co.

## DISTRIBUTION MAINS.

The distribution mains have been extended 1,331 feet during the year. There are now about 45 miles of mains laid in the city; upon this length 61 leaks occurred during the past year. These leaks were caused as follows:—

By rust (pipes imperfectly covered) . . . . .	13
By defective lining of pipe . . . . .	32
By settling of earth . . . . .	5
By blows from picks . . . . .	3
Joint leaks . . . . .	8
Total . . . . .	61

A portion of the Holland Street ten-inch main, referred to in my last annual report, has been taken up, and relaid on a new foundation, and is now in good order.

I would call your attention to the condition of the pipe in the following named streets, upon which several breaks have occurred. Wherever examined they have been found in bad condition, and in my opinion they will need extensive repairs or renewals the coming season:—

	Feet.
Allen Street . . . . .	650
Beacon Street . . . . .	3,800
Cross Street, from Broadway to Pearl Street .	1,150
Cutter Street . . . . .	800
Ellsworth Street . . . . .	300
Franklin Street, Oliver Street to Washington Street . . . . .	600
Hanson Street . . . . .	800
Irving Street . . . . .	1,200
Kent Court . . . . .	300
Linden Avenue . . . . .	1,100
Mount Vernon Street, Broadway to Perkins Street . . . . .	600
Myrtle Street, from Washington Street, northerly,	900
Nevada Avenue . . . . .	200
Skehan Street . . . . .	350
Walnut Street . . . . .	500
Webster Street . . . . .	400

The pipes in Franklin Street, from Oliver Street to Washington Street, and in Myrtle Street, from Washington Street northerly, mentioned above, should receive immediate attention. During the last three years breaks have been frequent, and the mere closing of a gate or hydrant is liable to make a break, which is often the cause of serious damage.

By order of your Board about 1000 feet of the pipe laid for John P. Squire & Co., in 1878, was taken up and relaid in a new location, on account of new buildings. In addition to this, 480 feet of six-

inch pipe and 175 feet of eight-inch pipe was laid on their premises to which were connected one six-inch Holyoke hydrant and one six-inch gate. The expense of these improvements, amounting to \$1,242.05, was borne by Squire & Co.

#### SERVICE PIPES.

The whole number of services laid for family and other purposes has been 94. Total length of pipe used, 3,463½ feet. Average cost of each service was \$18.25. Forty leaks have occurred during the past year, and were caused as follows: by defective soldering, 20; by settling of earth, 6; by blows from picks, 4; by defective couplings, 10: total, 40.

Forty-seven corporation stops which had become stopped by rust were retapped. Eleven services were stopped by fish. Twenty-six cast-iron gate-boxes have been substituted for decayed wooden ones. A large number must be removed this season, as they are decayed and filled up, rendering them worthless.

#### STAND PIPE FOR WATERING STREETS.

Two new stand pipes have been set, one on Somerville Avenue, opposite Mossland Street, and one on Elm Street, near the L. & A. Railroad, making the number now in use nineteen.

One on Pearl Street has been moved two hundred feet toward Walnut Street; repairs have been made at a cost of \$33.

I would recommend that instead of setting any more new stand pipes, a Holyoke hydrant be set with a stand pipe attached.

#### DRINKING FOUNTAINS.

All are in good order except that in Union Square, referred to in my last report. Some change must be made in this before it can be again used.

#### STOP-GATES.

One six-inch gate has been set on the new main located in Hathorn Street, on the southerly line of Broadway, and one on the main in the premises of J. P. Squire & Co. Four have been re-

moved, there being no further use for them: namely, one on School Street, near Montrose Street, four-inch blow-off; one on Holland Street, near and south of Elmwood Street, four-inch blow-off; one on the old four-inch Middlesex Street main in Broadway, near Winthrop Avenue; and one on the eight-inch main in Pearl Street, between Franklin and Myrtle Streets. Four gates have been moved to new locations: namely, two in Union Square; one moved to the crossing at Washington Street and Webster Avenue, and the other to the crossing at Bow Street and Warren Avenue; two in Summer Street; one moved to Cherry Street crossing, and the other to Spring Street crossing. The two first-mentioned were moved on account of the construction of the new horse railroad; and the two last-mentioned because, being in the roadway, they were continually needing repairs.

Repairs upon stop-gates have been made as follows: 146 have had new boxes; 54 have been repacked; 10 have had general repairs. All have been examined and oiled, and are now in good order.

Some of the gates on old mains should be re-located, in order to avoid shutting off too large a territory when necessary repairs are to be made. The number of gates now in use is 370.

#### HYDRANTS.

Eight new hydrants have been set during the year. Their locations, selected by the chief engineer of the fire department, are as follows:—

Columbus Avenue, south side, near and east of Bonner Avenue.

Homer Square, northwesterly side.

John P. Squire & Co.'s premises.

Merriam Street, west side, near Charlestown Street.

Oxford Street, north side, near Trull Lane.

Somerville Avenue, north side, near and east of Beach Street.

Washington Street, north side, near and east of Franklin Avenue.

Washington Street, north side, near and west of Florence Street.

Eight hydrants have been taken out, and replaced by four new and four repaired ones. Eighteen have had new valves; six have



had new rods ; eight have had new caps on outlets ; five have had new standard bolts and nuts ; all have had the usual attention paid them. The frost-jackets referred to in my last report remain the same, and must be attended to next season, as they interfere with the waste. The whole number of hydrants now in use is 278.

The new hydrants set during the last three years are of the Holyoke pattern, and have given entire satisfaction. The following points show the superiority of these hydrants over those in which leather plugs are used for valves.

The hydrant is anti-freezing ; as it dips below the main, expansion and contraction do not affect it. It can be examined without shutting off the water from the main pipe. The valve is adjustable in case of wear, and it is impossible to get a water-hammer on the pipe, as it shuts against the pressure. The valve-rod can be removed by simply removing the nut. It is impossible to clog it with sticks and stones. It opens and closes easily, gradually shutting off the water, hence there is no concussion or bursting of the pipe in closing.

## SUMMARY OF DISTRIBUTION WATER PIPES LAID IN SOMERVILLE TO JAN. 1, 1881.

	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Total Miles and Feet.	
	12 inch.	10 inch.	8 inch.	6 inch.	4 inch.	3 inch.	2½ inch.	2 inch.	Miles.	Feet.	Miles.	Feet.
Laid previous to Jan. 1, 1879	8,614.6	4,586.0	35,281.6	92,896.7	85,495.0	7,872.5	270.0	1,388.0	44	4,084.4		
Laid in 1879.....	.....	.....	.....	551.0	*166.0	.....	.....	.....	.....	717.0		
Laid in 1880.....	.....	.....	175.0	1,114.0	42.0	.....	.....	.....	.....	1,331.0		
Total laid to Jan. 1881.....	8,614.6	4,586.0	35,456.6	94,561.7	85,703.0	7,872.5	270.0	1,388.0	45	852.4		
Replaced by larger pipe.....	.....	.....	.....	.....	.....	.....	.....	433.0	.....	433.0		
Total .....	8,614.6	4,586.0	35,456.6	94,561.7	85,703.0	7,872.5	270.0	955.0	45	419.4		

\* Including thirty-six feet of hydrant pipe omitted in table published in report of 1879.

## STOCK ACCOUNT.

Pipe lined,	\$353 30
Pipe not lined,	387 44
Gatés,	195 00
Sleeves,	21 30
Sheet-iron branches,	171 70
Cast-iron pipe,	51 78
Sheet iron,	993 00
Cast-iron branches lined,	72 00
Hydrants, 3 Holyoke, \$126.00 ; 1 Boston, \$22.00,	148 00
Water service materials,	814 93
Total amount of available stock,	<u>\$3,208 45</u>
Sundry tools, horse, wagons, etc., etc., as per inventory on file,	\$3,261 04
Total amount of stock, tools, etc , on hand Dec. 1, 1880,	\$6,469 49

Respectfully submitted,

NATHANIEL DENNETT,  
*Superintendent.*



SIXTH ANNUAL REPORT  
OF THE  
CITY ENGINEER OF SOMERVILLE.  
1880.



## CITY OF SOMERVILLE.

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IN BOARD OF ALDERMEN, Jan. 25, 1881.

Accepted and referred to the Committee on Printing with instructions to print the same in the Annual Reports for 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

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IN COMMON COUNCIL, Jan. 26, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

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CITY ENGINEER'S OFFICE, Jan. 5, 1881.

*To His Honor the Mayor and the City Council :*

GENTLEMEN, — The City Engineer presents the following report for the year 1880.

### SEWERS.

Nine thousand one hundred and ninety-one feet of sewers have been built during the year, as follows : Brick, 5,731.5 feet ; pipe, 3,459.5 feet. In these were built 44 manholes, 1 flushing chamber, and 724 inlets. The following table will show the location, cost, assessment, length, size, etc., of each sewer : —



## PEARL STREET SEWER.

A sewer was built in Pearl Street, from the old sewer near Cross Street to and connecting with the Marshall Street sewer. The connection was so made that during heavy rain-storms and when the Marshall Street sewer is surcharged, the overflow will pass into the Pearl Street sewer. It is probable that by reason of this connection the Marshall Street sewer will, to a certain extent, be relieved, and it may prevent the flooding of cellars; but the conveying of this overflow to the Cross Street sewer will be liable to cause the same trouble on Cross Street and the immediate vicinity.

The old sewer in Pearl Street, near Cross Street, built in 1872, was found defective in many places. Near the westerly end, the 30-inch water main and the sewer were laid at the same depth, thereby preventing the connection of lateral sewers and drains on the southerly side unless laid over the water main. The connection of the new sewer with the old one, as built in 1872, would have continued the same trouble for a long distance. Therefore, the old sewer, for its entire length, was rebuilt at a lower grade.

## SEWER OUTLETS.

At the sewer outlet under Cragie Bridge, in East Cambridge, the sewage has collected on the flats and under the wharves, and is a cause of complaint.

In June last the filling of the Mill Pond in Charlestown closed the channel through which the Waverly Street sewer discharged; the sewage was discharged for a time on the marsh and flats, and caused a nuisance. The Boards of Health of Boston and Somerville built a culvert under the Mystic Branch of the Boston and Lowell Railroad, and the sewage is now conducted through this culvert and an old channel to Prison Point. This is only a temporary outlet, as the railroad companies are now filling the channel and flats near Prison Point, and it is probable that this channel will soon be closed.

The owners of vacant lands at the outlet of the Winthrop Avenue sewer desire to improve them, and have petitioned the City Council to cease discharging the sewage thereon.

The sewage from the Canal Street and Tenney Court sewer, built in 1879, is temporarily discharging into a small creek. It is probable that it will soon become a nuisance to the residents in the neighborhood, and provision should be made for extending the sewer into deep water.

#### PRIVATE DRAINS.

Two hundred and eighteen permits were issued for laying private drains, 211 for new connections, and 7 for repairs.

Two persons were licensed by the mayor and aldermen as drain layers, making the present number of drain layers 23.

#### CATCH-BASINS.

Fourteen catch-basins were constructed during the year, at an average cost of \$64.93, which is higher than the cost of last year, on account of the advance in the prices of bricks and granite work.

A large number of old catch-basins have been partially rebuilt. Thirty-two old and decayed wooden covers were replaced by cast-iron covers. Nine hundred and ninety-three loads of deposit were removed from the catch-basins, at a cost of sixty and seven tenths cents per load.

#### MANHOLES.

Two manholes have been constructed on the Cross Street sewer, at Webster Street and at Brook Street, and one on the Medford Street sewer at School Street.

We have several miles of old sewers, some of which were constructed with a slight inclination, on which there are no manholes. I would recommend that they be provided with manholes, as without them it is impossible to properly care for the sewers.

#### EXAMINATION OF SEWERS.

During the year the sewers in East Somerville were carefully examined, and those of which we had no record were located. Nearly all these are without manholes, and it was necessary to excavate and cut into the sewers in making our examination.



## SIDEWALKS.

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

Street.	Side.	From	To	Materials.	Approx. length of walk.	Cost.
Bonner Av.	Easterly.....	Washington St.	Columbus Av.	Brick and edgestone.	350.	\$466 82
Bow .....	Northerly ...	Wesley Sq.....	N. Bow St. Pl.	Brick and edgestone.	180.	260 56
Gilman ....	Both .....	Cross St.....	Westerly.....	Gravel and edgestone.	1290.	877 38
Springfield.	Both .....	Concord Ave..	Camb'dge Line.	Gravel and edgestone.	1500.	992 94
Total .....	.....	.....	.....	.....	3320.	\$2,597 70

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

## PERAMBULATION OF CITY LINES.

The boundary lines between Cambridge and Somerville were perambulated in December, W. S. Barbour, city engineer, representing Cambridge, and Alderman Asa Durgin and your city engineer representing Somerville. A granite monument is now in preparation, and will be set early next season on Somerville Avenue, at the East Cambridge line.

## BRIDGES.

The new iron bridge on Medford Street, over the Boston and Lowell Railroad, was completed during the spring months. The grade of the new bridge was placed higher than the old one, and in consequence it was necessary to raise the grade of the street on each side of the bridge. The raising of the grade on the south side was a great benefit to Central Hill Park, as by this change the hill can be graded and improved to a better advantage.

## STREET NUMBERING.

Six streets have been numbered during the year. There are several houses in the city to which the owners or occupants have

neglected to affix the proper numbers, and in some cases the numbers on the houses are incorrect, causing much confusion. I would recommend that the chief of police be requested to enforce the ordinance where parties have not affixed the proper numbers.

ENGINEERING EXPENSES FOR 1880.

Salary of City Engineer, including maintenance of team,	\$1,900 00
Salaries of assistants . . . . .	961 00
Repairing instruments, stationery, spikes, tools, etc. .	155 04
	<hr/>
	\$3,016 04
	<hr/> <hr/>

Respectfully submitted,

GEORGE A. KIMBALL,

*City Engineer.*

REPORT  
OF THE  
COMMITTEE ON SEWERS.  
1880.

## CITY OF SOMERVILLE.

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IN BOARD OF MAYOR AND ALDERMAN, Dec. 28, 1880.

Accepted and referred to the next city government with instructions to print the same in the Annual Report, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

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IN COMMON COUNCIL, Dec. 28, 1880.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

IN COMMITTEE ON SEWERS, Dec. 28, 1880.

*To His Honor the Mayor and the Board of Aldermen :*

Your Committee on Sewers, having reported upon all matters referred to them, submit the following statement of the expenses of the department for the current year : —

Appropriation for sewers,	\$7,500 00	
Materials on hand Jan. 1,	219 17	
	_____	\$7,719 17

EXPENDED.

For 15 new sewers, as per		
accompanying table,	\$16,350 20	
Less assessments,	10,009 50	
	_____	
Net cost to the city,	\$6,340 70	
For rebuilding sewer in Pearl Street,	1,323 29	
“ 14 new catch-basins (average,		
\$64.93),	909 07	
“ 2 small catch-basins in private lands		
on Palmer Ave. and Fountain		
Ave. sewer,	24 42	
“ 3 new manholes,	132 20	
“ repairing sewers,	52 25	
“ “ catch-basins,	416 42	
“ “ manholes,	16 74	
“ flushing sewers,	93 75	
	_____	
<i>Amounts carried forward,</i>	\$9,308 84	\$7,719 17



<i>Amounts brought forward,</i>	\$9,308 84	\$7,719 17
For cleaning sewers,	186 27	
“ “ catch-basins,	602 87	
“ “ manhole dirt-catchers,	30 37	
“ “ ditches,	45 50	
“ clearing mouths of catch-basins,	88 38	
“ filling catch-basins with water,	5 25	
“ changing grades and lines of catch-basins,	18 25	
“ changing grades of manholes,	16 75	
“ examining sewers,	145 62	
“ “ catch-basins,	5 62	
“ tools and personal property,	26 67	
“ books and stationery,	67 50	
“ repairing tools and personal property,	13 66	
“ arranging “ “ “	3 49	
“ sundry small expenses,	28 43	
“ $\frac{1}{2}$ of the cost of engineer's transit,	124 00	
“ damages by laying Holland, Elm-wood, and Mead Street sewer,	142 00	
“ clerk's salary,	200 00	
Net depreciation of materials,	1 06	
Value of materials on hand this day,	236 93	
Total expenses,		11,297 46
Excess of expenses over appropriation,		\$3,578 29

Your committee have recommended the construction of such sewers only as the public necessity or the health of the citizens seemed to demand without delay, and, in addition to the petitions for these sewers, we have had before us eleven others; all of which appeared to merit favorable consideration, but which, owing to the condition of the appropriation, we have recommended to be referred to the next Board of Aldermen.

Appended hereto is a table, prepared by the City Engineer, of

sewers built and rebuilt during the year, with their lengths, dimensions, etc. In closing this report we desire to express our appreciation of the faithful and efficient manner in which the City Engineer has aided us in our duties.

For the committee,

MARTIN W. CARR, *Chairman.*



CITY OF SOMERVILLE.

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CITY ENGINEER'S OFFICE, CITY HALL,  
SOMERVILLE, MASS., Dec. 28, 1880.

*To the Committee on Sewers :*

I hereby submit the following report :—

SEWERS BUILT IN 1880.

Street.	From	To	Materials.	in inches.	Manholes.	Inlets.	Length (in feet).	Total cost.	Assessments.	Cost to city.
Appleton.....	End of old sewer.	Willow Ave.....	Brick.....	20×13½	0	2	73.0	\$150 98	\$115 90	\$35 08
Willow Ave.....	Appleton Street....	Northerly.....	".....	20×13½	0	7	65.0			
Bradley.....	Pearl Street.....	Veazie Street....	".....	24×17	2	32	382.5	933 22	703 60	229 62
Veazie.....	Bradley Street....	Near Walnut Street.	Akron pipe.....	12	2	31	357.0			
Cameron Ave.....	Near Mead Street..	Near Holland Street.	".....	12	2	32	370.0	435 84	398 26	37 58
Claremont.....	End of old sewer.	Holland Street....	".....	12	0	5	106.0			
Holland.....	Claremont Street..	Near Newbury St..	".....	12	3	29	358.0	589 37	444 07	145 30
Broadway.....	Near Newbury St..	Broadway.....	".....	12	1	9	188.0			
Greenville.....	Holland Street....	Near Clarendon Ave.	".....	12	6	6	62.0	329 35	188 93	140 42
Hathorn.....	Medford Street....	Westerly.....	Brick.....	24×17	1	25	300.0	415 80	312 55	103 25
Highland Ave.....	Broadway.....	Near Arlington St..	Akron pipe.....	12	2	22	279.5	398 07	293 04	105 03
Kent.....	Grove Street.....	Near Davis Square..	".....	12	3	37	471.5	543 48	407 34	136 14
F. R. R. Location.	Beacon Street....	Fitchburg R. R....	Brick.....	24×17	2	35	463.0			
Garden Court.....	Kent Street.....	Garden Court....	".....	24×17	1	7	174.0	1,470 24	784 28	685 96
Palmer Ave.....	Fitchburg R. R....	Near Somerville Ave.	Akron pipe.....	12	1	22	288.0			
Private Lands.	Franklin Street....	Private lands.....	Brick.....	24×17	2	12	197.0			
Fountain Ave.....	Palmer Ave.....	Fountain Ave.....	".....	24×17	2	29	353.0	2,261 47	1,135 38	1,126 09
Fountain Ave.....	Private lands....	Near Cross Street..	".....	24×17	1	20	223.0			
Pearl.....	Private lands....	Near Cross Street..	".....	22½×15	1	26	250.0			
Skehan.....	End of old sewer.	Marshall Street....	".....	36×24	6	147	1,841.0	5,495 16	2,747 15	2,748 01
Russell Square....	Dane Street.....	Near Hanson Street.	Akron pipe.....	12	2	25	297.5	315 15	237 48	77 67
Summer.....	Sewer in Elm St..	Summer Street....	Brick.....	24×17	1	6	144.0	1,379 60	1,035 78	343 82
Washington.....	Russell Square....	Willow Ave.....	".....	24×17	3	75	881.0			
Willow Place.....	Franklin Street....	Tufts Street.....	".....	36×24	1	32	385.0	1,444 79	1,112 04	332 75
	Washington Street.	Northerly.....	Akron pipe.....	12	3	42	548.0			
	South Street.....	Near Cambridge Line.	".....	12	2	9	134.0	187 68	93 70	93 98
Totals.....					44	724	9,191.0	\$16,350 20	\$10,009 50	\$6,340 70

SEWER REBUILT IN 1880.

Pearl.....	Cross Street.....	Westerly.....	Brick.....	36×24	2	36	499.0	\$1,323 29	.....	\$1,323 29
								\$17,673 49	.....	\$7,663 99

GEORGE A. KIMBALL,  
City Engineer.



FINAL REPORT  
OF THE  
COMMITTEE ON HIGHWAYS,  
FOR THE  
YEAR 1880.

## CITY OF SOMERVILLE.

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IN BOARD OF ALDERMEN, Dec. 28, 1880.

Report accepted, and referred to the next city government, to be printed with the City Reports for the year 1880, and sent down for concurrence.

CHARLES E. GILMAN, *City Clerk.*

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IN COMMON COUNCIL, Dec. 28, 1880.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

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IN COMMITTEE ON HIGHWAYS, Dec. 23, 1880.

*To the City Council :*

The Committee on Highways respectfully submit this their annual report, showing briefly the operations undertaken and accomplished during the year 1880.

An item that often enters largely into the expenditures of this department is the expense incurred for the removal of snow and ice, and repairs for damages, caused by the elements, both of which are beyond the control of your committee and cannot be estimated in the making up of the appropriations for the year.

These causes at times are a severe and unprovided for drain upon the resources of the department.

Your committee are glad to report therefore, that for the year ended the expenditure called for in this direction has been very moderate, the cost of removing snow and ice for the year being only \$478, and no serious damage has occurred to the highways of the city from the effects of rain or storms.

### MIDDLESEX AVENUE

has been the cause of considerable outlay and anxiety to your committee during the year. Early in the season its condition became so bad, from the overflow of tide water and other causes, that attention was called to it by the county commissioners; and the temporary repairs that were then being made by the superintendent of streets were under the direction of your committee enlarged and increased, and the result is, that a stone wall has been constructed to preserve the avenue from the invasion of tide water;

some 916 feet in length on the westerly side, from Mystic Avenue towards Wellington; and the road-bed, kept in a passable condition, and the whole avenue materially improved and repaired.

#### MEDFORD STREET BRIDGE.

A new and handsome iron bridge has been erected at this point, across the Lowell Railroad, towards which the city of Somerville has paid as its proportionate part, the sum of \$5,000, from the annual appropriation assigned to this committee. The approaches to the bridge have been put in good order, and the unsightly and unsafe edifice that marred the city at this point has disappeared forever, and a massive stone and iron structure of great strength and perfect proportions, replaced it.

Your committee, after a careful examination, are of the opinion that a new bridge must be built over the Lowell Railroad at School Street, at an early day, as the structure now there is in a dilapidated condition, the approaches not in good order, and the whole not in accord with the surroundings. The attention of the next City Council is respectfully invited to this question, and if it is deemed proper to take any action, it is hoped that a specific appropriation will be made for it, and that the Committee on Highways will not, as in this year in the case of the Medford Street bridge, be obliged to deduct so large a sum as \$5,000 from their appropriation for current running expenses, to pay for the completion of a bridge, ordered by the City Council of two years previous.

#### SOMERVILLE HORSE RAILROAD COMPANY.

A double track has been laid from the Cambridge line at Miller's River, on Somerville Avenue to Union Square, the city paying from the appropriation of this committee, as its proportion for paving between the tracks, the sum of \$1,000.

This piece of work has effected a complete paving of Somerville Avenue between the limits above named, of sixteen feet in width, a matter of great value to the city, in the estimation of your committee, and largely decreasing the expenses which are necessary to keep an unpaved street in repair, especially a thoroughfare like this.

It will be acknowledged by all who have given attention to the construction and preservation of highways, that Somerville Avenue must eventually be paved its entire length, and in the estimation of your committee it is only a question of time; and as at no period will the city be in a position to expend the necessary amount for this purpose in any one year, it is recommended that an annual appropriation, of say \$5,000, be made for this special purpose, and that the money so appropriated be expended in paving so much of the avenue as possible each year until completed; in this way the work will be consummated, and the expenditure will be gradual, and not extraordinary.

#### STONE-BREAKER.

The subject of the purchase by the city of a stone-breaker has been agitated for several years past, and in the early part of this year, the City Council appropriated the sum of \$2,000 for the purchase of a stone-breaker, boiler, engine, and suitable building.

Your committee visited several places where breakers were in operation, and as a result, purchased a 9 x 15 inch machine manufactured by the Farrell Foundry and Machine Company, at Ansonia, Conn. The machine was set up in what is called the Holland Street ledge, and was put in operation early in the summer; and your committee are under obligations to Mr. S. L. Marsden, agent for the company, for assistance and advice to the superintendent of streets, in arranging and starting the machine.

The results obtained have more than satisfied your committee that the expenditure has been a wise one. With this machine, all loose stone and material lying about the city is pulverized and cracked to any given size, and distributed upon any of the highways that may need repairs; thus obviating an outlay for that indispensable article in road building and repairing, — namely, cracked stone.

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



FITCHBURG RAILROAD CROSSING OVER SOMERVILLE  
AVENUE NEAR MILLER'S RIVER.

This is a point that will be remembered by all, where several railroad tracks, public and private, cross a wide avenue and throughfare at a very long and awkward angle, and at the outlet or intersection of several streets which terminate or commence at or near this point.

Your committee early in the year gave their attention to the subject of having a series of permanent and systematic gates and fences erected, and for that purpose submitted to the Fitchburg Railroad corporation a plan and system of gates which it was thought would decrease the danger at this point. Unfortunately the arrangement was not consummated, on account of the disagreement between your committee and the Fitchburg Railroad corporation as to the maintenance of a certain light to be erected; and, although in the general features of the proposed erection of fence and gates, they were agreed, they differed on this point.

The attention of the next city government is respectfully invited to this question, and it is hoped that some arrangement may be agreed upon, and a much-needed system of fence and gates erected.

As the matter now stands at present, your committee, being unable to make an arrangement, caused an order to be introduced into the Board of Aldermen, which was adopted, calling upon the Fitchburg Railroad Company to erect the necessary gates called for by law, and warning them that they would be held liable for any accident that might occur. Up to the present time no action has been taken by the Fitchburg Railroad Company towards complying with this notice.

## GRAVEL BANKS AT WALTHAM.

Early in the year an arrangement was made (which is not yet ended) with the Fitchburg Railroad Company to open up the gravel banks, supposed to exist in the land belonging to the city at Waltham, and to utilize them. For this purpose an arrangement has been made for the Fitchburg Railroad Company to remove a large number of squares of earth, in such localities

as the City Engineer shall point out, leaving such gravel as may be exposed for the use of this city. Several short shafts have been sunk, and quite a large lot of superior gravel exposed, which it is believed, as the work goes on, can be used and utilized by this city at a small cost.

Appearances point, so far, to an excellent bed of seemingly inexhaustible gravel, which, after the filling material which covers it has been removed by the Fitchburg Railroad Company, will be at the disposal of the city. Samples of the gravel obtained have been pronounced by those capable of expressing an opinion as being of an excellent grade and quality.

#### WATERING STREETS.

This perplexing subject has been agitated throughout the year by the local press and by citizens; and your committee desire, in view of the prominence to which it has arisen, and which, of course, has given them cause for serious thought throughout the year, to make the following suggestions and to record the following opinions:—

It should be remembered that Somerville is not a paved city, and yet by its geographical position, and proximity to Cambridge and Boston, is traversed by large thoroughfares, over which enormous travel of the severest kind is done; the heavy teams of an immense business grinding its thoroughfares into impalpable dust, which is taken up by the wind and distributed in every direction, to the slow but sure destruction of the road-bed and the discomfort of all.

In the first place, it is recommended that the care of watering the streets be placed under the charge of the Committee on Highways, to which department, it is thought, it naturally belongs, and that the appropriation for that purpose be disbursed by the Superintendent of Streets, under the direction of that committee.

The question of the watering of streets is, in the opinion of your committee, greatly a question of the *repairs of highways*; far below that of comfort and convenience, lies the question of *preservation and protection to the thoroughfares and arteries of the city by the legitimate use of water*; in the same manner as by the legitimate use of gravel or cracked stone.

In the opinion of your committee, the principal arteries and thoroughfares of the city should be watered under the supervision of the Committee on Highways, by the Superintendent of Streets, as he may direct.

It is too well known for repetition here what criticisms have been made during the last year, on the condition of the highways of the city for the want of water, and it is also, as is well known to your committee, a question, as to how much should be done by the city alone in this direction, unaided by private subscription. It is also well understood that there is a great diversity of opinion on this subject, and also that it is difficult to know where to commence and where to end. All agree that something must be done, and your committee, with all due deference, desire to express the following opinion, namely:—

That the great thoroughfares of this city are used for the general convenience of all of its citizens, and also those of the neighboring towns and cities, whilst the smaller streets are, as a rule, used almost exclusively by those who reside upon them.

It is considered but fair that all such minor streets, courts, and avenues, if watered at all, should be watered as at present; but the great thoroughfares are for the general use and convenience of all, and the city, even on the plea of repairs, preservation, economy, and its good name, should see to it that they are watered at the discretion of the Committee on Highways, the abutters paying a fair proportion of the expense. Such action would, in the estimation of your committee, redound to the honor of the city, and be for the general good of the whole community.

It seems reasonable to your committee that citizens should discern a great difference between the watering and preserving of the great unpaved thoroughfares of the city, and the necessity to water, therefore, all and every smaller and less important street.

It certainly cannot be denied that something should be undertaken to prevent a recurrence of the state of affairs of last year, if it is desired to see the city advance, and to offer inducements to strangers to take up their dwelling amongst us, and to that end the foregoing suggestions are respectfully advanced for your consideration.

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

NEW STREETS CONSTRUCTED.

NAME.	FROM	To
Columbus Avenue .....	Walnut Street.....	Warren Avenue.
“ “ .....	Bonner Avenue .....	Clark's Field.
Medford .....	Walnut Street.....	Marshall Street.
Hathorn .....	Broadway.....	Arlington Street.

STREETS GRADED, REPAIRED, ETC.

NAME.	FROM	To	
Main .....	Broadway . . .	Medford Line	800 ft. mac'ized and gravelled.
Springfield....	Concord Ave...	Camb'ge Line	700 “ “ “
Gilman .....	Cross.....	.....	650 “ “ “
Bonner Ave...	Columbus Ave..	Washington..	350 “ “ “
Somerville Av.	(East Side) Cam- bridge Line . . .	.....	1420 “ “ “
School .....	.....	.....	1500 “ “
Laurel .....	.....	.....	200 “ “

SIDEWALKS CONSTRUCTED.

(Abutters paying one half of the cost of construction.)

NAME.	SIDE.	FROM	To	Feet of edgestones.	Yards of brick.
Bonner Ave.	South..	Washington....	Columbus Ave...	346	207½
Bow .....	North..	Summer .....	Bow Street Place.	181	138½
Gilman .....	Both ..	Cross.....	.....	1282½	
Springfield .	Both ..	Concord Ave...	.....	1561¼	



## PRIVATE SIDEWALKS CONSTRUCTED.

*(City contributing only the labor of construction.)*

NAME.	STREET.	Yards of brick.	Feet of edgestones.
D. L. McGregor .....	Walnut .....	55	
L. B. Stetson .....	Chestnut Court ....	127	200
Wm. Canavan.....	Somerville Avenue.....	24	26
Martha Hunt .....	Thurston .....		100
George C. Bonner.....	Columbus Avenue.....		244
H. G. Ashton.....	.....		91

## STREET CROSSINGS CONSTRUCTED.

MEDFORD STREET, at Walnut Street.

WASHINGTON STREET, at Franklin Street.

CROSS STREET, at Bonner Street.

WASHINGTON STREET, at Franklin Avenue.

COLUMBUS AVENUE, at Walnut Street.

HATHORN STREET, at Broadway.

HATHORN STREET, at Arlington Street.

SOMERVILLE AVENUE, at Hawkins Street.

SPRINGFIELD STREET, at Concord Avenue.

CONCORD AVENUE, at Springfield Street.

BROADWAY, at Mt. Pleasant Street.

COLUMBUS AVENUE, at Bonner Avenue.

ELM STREET, at Willow Avenue.

## STREET CROSSINGS RECONSTRUCTED.

MEDFORD STREET, at Marshall Street.

MARSHALL STREET, at Medford Street.

GILMAN STREET, at Cross Street.

PEARL STREET, at Walnut Street.

UNION SQUARE, at Bartley's.



## STREET SIGNS ERECTED.

Myrtle Street,	Bow Street,
Holland Street,	Otis Street.
Tufts Street,	

## CULVERTS (WOODEN).

School Street, 1 ; Medford Street, 4 ; Highland Avenue, 1.

Gutters repaved, 1,000 yards ; edgestones reset, 1,800 feet ; brick sidewalks repaired, 300 yards ; number of loads of ashes collected, 3,835.

## GRAVEL PURCHASED, 1880.

H. Willis, 34 loads at \$0.25,	\$8 50
Mrs. A. L. Rich, 47 loads at \$0.12½,	5 87
C. L. Heywood, 36 loads, at \$0.45,	16 20
“ “ 149 loads, at \$0.16,	23 84
“ “ 373 loads, at \$0.80,	298 40
	<hr/>
	\$352 81
	<hr/> <hr/>

## PERMITS.

For hitching posts, 3 ; digging up streets, 128.

## TREES, ETC.

Permits for setting out trees,	27
Number of trees on highways,	3,358
“ “ school-house grounds,	80
“ “ Central Hill,	190
“ “ Public Park,	337
“ “ set out,	79
	<hr/>
Total number of public trees,	4,044
	<hr/>
Number of trees cut down,	6
Whole number of yards of stone paving,	1,688
“ “ “ brick paving,	552
“ “ feet of edgestones set,	4,032

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

Health Department,	\$968 73
Fire Department,	17 50
Sidewalks,	224 80
Street watering,	25 70
Public property,	13 20
	\$1,249 93

BILL DELIVERED TO CITY TREASURER FOR COLLECTION.

Arthur Moland, rent of house,	\$65 00
Middlesex Bleachery and Dye Works, gravel,	3 60
Owen Cunningham, sand,	25 00
George W. Prichard, sand.	4 50
	\$98 11

CASH RECEIVED AND PAID CITY TREASURER.

R. E. Woodard, driveway construction,	\$6 50
George McKenna, old iron and junk,	19 34
A. E. Winship, gravel,	1 00
F. W. Slade, filling,	10 00
Cambridge Savings Bank, driveway construction,	7 00
J. C. Dyer, filling,	2 00
B. F. Thompson, gravel,	1 60
G. W. White, driveway, construction,	8 00
D. A. Sanborn, gravel,	2 00
C. M. Wood, driveway construction,	7 50
J. A. Durell, " "	3 00
E. A. Stone, " "	7 50
A. C. Winning, pasturage,	30 00
S. Poor, driveway construction,	6 60
George Sanborn, bricks,	50
	\$112 54
<i>Amount carried forward,</i>	

<i>Amount brought forward,</i>	\$112 54
A. Fiske, ashes,	50
S. D. Warren, filling from Waltham pit,	30 00
Robert Ross & Son, sods from Waltham pit,	240 20
	<hr/>
	\$383 24
	<hr/> <hr/>

The committee, in closing the duties of the year, desire to express their sincere and hearty appreciation of the services of the Superintendent of Streets and of the clerk of this committee, for the faithful, efficient, and very satisfactory manner in which they have performed their respective duties.

ASA DURGIN,  
*Chairman Committee on Highways.*

Attest:

DOUGLAS FRAZAR, *Clerk.*



ANNUAL REPORT

OF THE

TRUSTEES OF THE PUBLIC LIBRARY.



## CITY OF SOMERVILLE.

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IN BOARD OF MAYOR AND ALDERMEN, Feb. 8, 1881.

Report accepted and referred to the Committee on Printing, with instructions to print the same in the Annual Report for 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

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IN COMMON COUNCIL, Feb. 9, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

# PUBLIC LIBRARY.

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## EIGHTH ANNUAL REPORT.

*To the Members of the City Council :*

GENTLEMEN, — The trustees of the Public Library are happy to report a prosperous year in the administration of their important trust. The interest of the community in the library is constantly increasing, and the number of books read and consulted during the last year is considerably larger than that of any previous twelve months. Indeed, the excess of books taken out in 1880 over 1870 equals the whole number taken out during the first year in which the library was in operation.

The Committee on Books and Catalogues have given a good deal of time and careful attention to the purchase of new books, with the general principle — after devoting a suitable portion of the means in their hands to meeting the demand for the best current literature — of filling up gaps in the list of well-known standard works, always useful and valuable, and in adding to the various departments their proportionate shares of such books as have seemed to the committee to have the greatest promise of general interest and permanent value. They have also welcomed, and would especially call for, lists of desired books from teachers, specialists, or general readers to assist their judgment and jog their recollection. They may not always be able to procure what one or another person may desire ; but the committee desire to meet all reasonable requests, and there can be no considerable demand for a book — not utterly trashy or positively bad — which they will not try to supply.

We think that a large portion of the community do not quite realize how valuable a collection of excellent books of permanent value is forming in our library ; nor how easy it would be to arrange courses of reading from books to be obtained in it, and compara-

tively little used, in any one of many departments of culture or research, — courses which should be comprehensive and tolerably complete. The librarians and trustees would be very glad to cooperate, to the extent of their power, in enlarging the opportunities for such investigation.

A considerable number of works has been added to the reference and consultation department; and a regulation has been made, by which special students may be permitted, under proper restrictions, to take away such books, in their own departments, for private study. A gratifying increase of interest in using these books has been observed within the past year. It only remains to add the sorely needed space for adequate reading-rooms, to make the library enter on its destined, and we trust soon to be opened, career of recognized and distinguished usefulness, as the universal adjunct and the crown of our public educational agencies.

The number of magazines and reviews has been increased by the addition of several of the best English and home periodicals, and the trustees have hoped to make them more widely useful by providing that they may be given out like other (seven-day) books, after remaining for the appointed time upon the library table.\*

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\* We subjoin for the information of those into whose hands this report may come, the following list of newspapers, periodicals, and reviews, taken for the library, and to be found upon the table: —

American Art Review.  
 American Naturalist.  
 Appleton's Journal.  
 Art Amateur.  
 Atlantic Monthly.  
 Blackwood's Magazine.  
 Boston Daily Advertiser.  
 Boston Daily Transcript.  
 Catholic World.  
 Contemporary Review.  
 Cornhill Magazine.  
 Godey's Lady's Book.  
 Good Company.  
 Harper's Monthly.  
 Harper's Bazar.  
 Harper's Weekly.  
 Harper's Our Young Folks.  
 International Review.  
 Library Journal.

Lippincott's Magazine.  
 Littell's Living Age.  
 Macmillan's Magazine.  
 New York Nation.  
 New York Evening Post.  
 Nineteenth Century.  
 North American Review.  
 Official Gazette (donated).  
 Popular Science Monthly.  
 Princeton Review.  
 Publisher's Weekly.  
 St. Nicholas.  
 Scientific American.  
 Scribner's Magazine.  
 Somerville Journal (donated).  
 Tuftonian (donated).  
 Unitarian Review (donated).  
 Wide Awake.  
 Woman's Journal (donated).

Changes have been made during the year in the hours of opening and closing the library, by which its usefulness is considerably extended, and the public convenience subserved. It is believed that the new arrangements give general satisfaction.

The trustees desire again to call the attention of the city government and of the community to the inadequate room furnished for the storage of books and the accommodation of those who frequent the library. Not only as a matter of convenience, but on grounds of health and of the public morals, we believe that the interests of the city would be subserved by attention to this suggestion; for the habit of frequenting the company of books, which the providing of a spacious, well-ventilated, and well-lighted library would foster and promote, would prove a wholesome and saving one to many whose surroundings are, to say the best of doubtful quality and promise. May we not hope that with the revival of business prosperity among us, there will be some action taken looking to the supply of this urgent need?

Without expressing preference for this over other suggested or possible methods of accomplishing this end, the trustees would ask for the careful consideration of the remarks on this topic of Mayor Cummings in his late inaugural address: —

“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 select books 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 the regular city appropriation.”

No change has been made during the year in the librarians or other employés of the library. The librarian reports that during the year, 67,895 books have been used, 780 of these from the reference department; 702 books have been added during the year. The following have been donated by non-residents: "Recollections of an Old Pioneer"; "Records of the First Church in Charlestown, Mass.;" "History of the Harvard Church, Charlestown, Mass." Three books have been lost during the year. The largest number given out on any day was 632; in any month, 8,258.

The financial statement for the year 1880 is as follows:—

Credit balance from 1879,	\$38 64
Appropriation,	1,500 00
Dog licenses,	934 23
Fines,	231 92
Catalogues,	46 74
	<hr/>
	\$2,751 53
	<hr/>
Expended for salaries,	\$1,262 29
"    " books,	732 77
"    " express,	20 75
"    " printing,	208 15
"    " binding,	15 00
Sundries,	13 35
Balance to credit in account of 1881,	499 22
	<hr/>
	\$2,751 53
	<hr/>

Respectfully submitted,

W. G. TOUSEY,  
W. VEASIE,  
A. M. ROBINSON,  
W. H. BRINE,  
E. S. CONANT,  
C. S. LINCOLN,  
T. J. BUFFUM,  
J. H. FLITNER,  
H. H. BARBER,

*Trustees.*



ANNUAL REPORT  
OF THE  
OVERSEERS OF THE POOR,  
FOR THE  
Year ending Dec. 31, 1880.

## CITY OF SOMERVILLE.

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IN BOARD OF MAYOR AND ALDERMEN, Feb. 8, 1881.

Accepted and referred to the Committee on Printing, with instructions to print the same in the Annual Report for 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

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IN COMMON COUNCIL, Feb. 9, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

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*To his Honor the Mayor and the City Council :*

GENTLEMEN, — The Board of the Overseers of the Poor herewith present their annual report of the receipts and expenditures of this department. We have few suggestions to make in addition to those contained in our report of last year. The calls for aid, particularly in cases of insanity, are constantly increasing with the growth of our city, and we would again urge the need of an almshouse, as in our opinion a matter of imperative necessity if we would administer the affairs of this department with economy. We therefore ask your honorable body for the appointment of a special committee to consider the subject, and take such action as may be necessary in the premises.

The secretary's report (Documents Nos. 1 and 2), and the report of the store-keeper (Document No. 3), herewith submitted, give in detail the transactions of the Board during the past year.

TABLE NO. 1.

Total number of families aided,	358
“ “ persons aided,	836
“ “ orders for fuel,	1,139
“ “ orders for groceries,	3,509
“ “ orders for dry goods and shoes,	508
“ “ orders,	5,156
Burials,	18
Total number of families chargeable to city,	163

Total number of families chargeable to other towns and cities,	42
Total number of families aided by city not settled,	82
Total number of families partially aided by State included in the above,	67
Total number of families aided by other towns and cities chargeable to Somerville,	35
Whole number of families registered,	642
Number added during the year,	11

THOS. CUNNINGHAM, *Secretary.*

TABLE NO. 2. — RECEIPTS AND DISBURSEMENTS.

Statement of receipts and expenditures of the Overseers of the Poor for the year ending ending Dec. 31, 1880: —

Appropriation,	\$13,000 00
Received from other towns and cities,	2,417 66
	<hr/>
	\$15,417 66

Expended as follows: —

House rents,	\$746 00	
Board in private families,	834 08	
Groceries and provisions,	4,502 81	
Burials,	278 00	
Boots, shoes, dry goods, and clothing,	1,034 05	
Salaries,	1,400 00	
Fuel, teaming, etc.,	2,290 21	
Stationery and printing,	23 25	
Sundries, transportation, etc.,	283 18	
Board in State and city institutions,	3,677 26	
Aid to paupers in other towns and cities,	1,626 89	
Food for lodgers,	7 00	
	<hr/>	16,702 73
Amount overdrawn,		<hr/> <hr/> \$1,285 07

THOS. CUNNINGHAM, *Secretary.*

## STATEMENT OF STORE-KEEPER.

Stock on hand Jan. 1, 1880,		\$134 96
Goods purchased during the year,		4,405 64
		<hr/>
		\$4,540 60
Goods delivered on overseers' orders		
from Jan. 1, 1880, to Dec. 31, 1880,	\$4,747 89	
Goods delivered to police station,	145 94	
Goods on hand Jan. 1, 1881,	266 54	
	<hr/>	
		5,160 37
		<hr/>
		\$619 77
		<hr/> <hr/>

ANSEL LEWIS, *Store-keeper.*

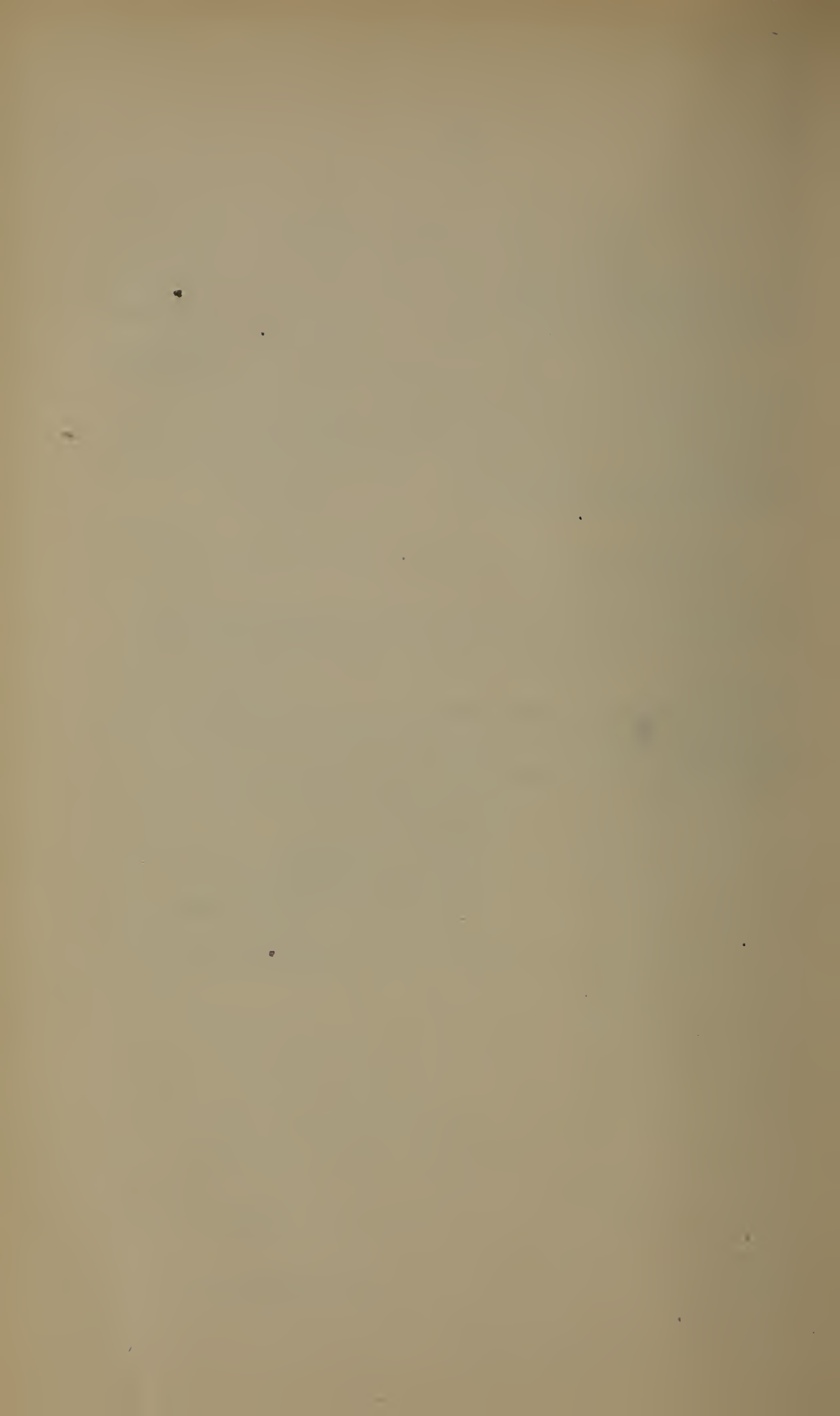
As short and brief reports seem to be more comprehensive than elaborate statements, we respectfully ask your acceptance of the above, hoping it may meet all you desire from this department.

Respectfully,

ANSEL LEWIS,  
NELSON HOWE,  
FRANK G. WILLIAMS,

*Overseers of the Poor.*





THIRD ANNUAL REPORT  
OF THE  
BOARD OF HEALTH  
OF THE  
CITY OF SOMERVILLE,  
WITH THE CITY PHYSICIAN'S REPORT  
FOR THE  
YEAR 1880.

## CITY OF SOMERVILLE.

---

IN BOARD OF ALDERMEN, Feb. 9, 1881.

Referred to the Committee on Printing, with instructions to print the same in the Annual Report for 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

---

IN COMMON COUNCIL, Feb. 9, 1881.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

---

OFFICE OF THE BOARD OF HEALTH,  
CITY HALL, SOMERVILLE, MASS., Jan. 31, 1881.

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

GENTLEMEN,— In accordance with law, we present the third annual report of the Board of Health, for the year 1880.

### MEMBERSHIP.

Jan. 1, the members of the board were Messrs. Charles W. Sawyer, chairman; George A. Kimball, city engineer; and John F. Couch, M. D., city physician. Feb. 2, Mr. Sawyer's term of office expired, and he was succeeded by Major John A. Cummings, who was appointed for a term of two years.

### ORGANIZATION.

Feb. 10, the following officers were elected:—

*Chairman* . . . GEORGE A. KIMBALL.  
*Clerk* . . . GEORGE I. VINCENT.  
*Inspector* . . . WILLIAM H. BRINE, 40 Houghton Street.

### NUISANCES.

The following is a tabulated statement of nuisances abated, arranged by the months when the complaints were received:—

## NUISANCES ABATED IN THE YEAR 1880.

	*January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cellar damp.....	4	2	2	1	2	...	2	...	...	...	1	...	14
Cesspool defective.....	2	...	1	...	...	...	...	...	...	...	...	...	3
“ in cellar overflowing..	1	...	...	...	...	...	...	...	...	...	...	...	1
“ overflowing.....	7	1	1	3	3	1	...	...	...	2	...	...	18
“ under house.....	...	...	...	...	...	...	...	...	...	...	...	1	1
Connections of waste with drain pipes defective.....	18	3	1	4	2	2	2	...	1	2	1	...	36
Drainage defective.....	9	1	5	3	2	1	3	1	2	5	...	1	33
“ emptying into cellar..	4	...	2	5	3	3	3	1	...	3	...	...	24
“ emptying on surface..	10	7	6	16	4	3	4	6	2	2	1	...	61
Drain-pipe broken and leaking.	1	1	...	...	...	...	...	...	...	...	...	...	2
“ in cellar defective..	13	4	1	2	1	1	4	...	...	2	1	...	29
“ not trapped.....	...	4	...	...	1	...	1	1	1	1	...	...	9
“ stopped up.....	1	2	3	3	1	...	1	...	1	...	...	...	12
Filth in cellar.....	...	...	...	2	...	...	1	...	...	...	...	...	3
“ on premises.....	2	...	1	...	2	2	2	...	...	...	...	...	9
Goat kept in cellar.....	...	...	...	1	...	...	...	...	...	...	...	...	1
Henney offensive.....	...	...	...	...	...	...	1	...	1	...	...	...	2
Hens kept in cellar.....	...	...	...	...	1	...	...	...	...	...	1	...	2
Horse kept under house.....	...	...	1	...	...	...	...	...	...	...	...	...	1
Manure exposed and offensive..	1	...	6	2	2	3	4	...	2	1	...	1	22
Offal in cellar.....	...	...	...	1	...	...	...	...	...	...	...	...	1
“ on land.....	...	...	...	8	1	...	...	...	...	1	...	...	10
“ thrown into vault.....	...	...	...	...	...	...	4	...	...	...	...	...	4
Offal-bucket offensive.....	...	...	...	...	...	...	1	...	...	...	...	...	1
Offensive materials carted thro' streets.....	...	...	...	...	...	...	1	...	...	...	...	...	1
Offensive odor in and about dwellings.....	1	1	...	...	...	...	...	...	...	...	...	...	2
Opening in drain-pipe in yard..	1	...	...	...	...	...	...	...	...	...	...	...	1
Refrigerator connected with soil-pipe.....	...	...	...	1	...	...	...	...	...	...	...	...	1
Sewer outlet cut off.....	...	...	...	...	...	1	...	...	...	...	...	...	1
Sink defective.....	...	...	...	...	...	...	...	1	1	...	...	...	2
Slops thrown on surface.....	2	1	4	6	...	...	...	...	...	...	...	...	13
Soil-pipe not connected with drain-pipe.....	...	...	...	...	...	1	...	...	...	...	...	...	1
Soil-pipe not ventilated.....	9	1	1	...	...	1	...	...	...	1	1	...	14
Soil-pipe open at top to take overflow from water-tank...	...	...	...	2	...	...	...	...	...	...	...	...	2
Stable filthy.....	2	...	...	...	...	...	...	...	...	...	...	...	2
“ and stable premises of- fensive.....	2	...	1	1	1	1	...	...	...	1	...	...	7
Stagnant water in house cellar..	2	2	...	...	1	2	1	...	...	...	1	...	9
“ “ in stable cellar..	...	...	...	1	...	1	...	1	1	...	...	...	4
“ “ on surface.....	3	...	1	9	2	...	1	...	1	...	...	...	17
Vault full.....	18	2	4	12	12	11	20	15	9	4	8	2	117
“ leaking.....	1	...	...	...	4	...	2	2	...	...	...	...	9
“ not properly constructed,	5	1	...	5	1	...	1	...	...	1	...	...	14
“ “ ventilated..	2	...	...	...	...	...	...	...	...	...	...	...	2
“ offensive.....	7	5	1	1	3	5	17	4	4	8	1	...	56
Waste-pipes defective.....	1	...	1	...	...	...	...	...	...	...	...	...	2
“ not trapped.....	44	13	8	9	9	7	9	5	2	8	2	3	119
“ stopped up.....	...	...	1	1	1	...	...	...	...	...	...	...	3
Water-closet defective.....	2	...	...	1	...	...	1	...	...	...	...	...	4
“ filthy.....	...	...	...	...	...	...	1	...	...	...	...	...	1
“ insufficiently sup- plied with water,	3	...	...	...	...	...	...	...	...	...	...	...	3
“ not supplied with water.....	1	...	1	...	1	...	...	...	...	...	...	...	3
“ not trapped.....	1	...	3	1	...	...	...	...	...	...	...	...	5
“ off-nsive.....	...	...	...	...	1	...	...	...	...	...	...	...	1
Wooden waste-pipes and drains,	6	2	2	3	1	...	1	...	...	...	...	...	15
	186	53	58	104	62	46	88	36	28	43	18	8	730

\* Including nuisances referred to us by the Board of 1879.



Number of nuisances abated, 730 ; number referred to Board of 1881, 127 : total, 857.

Number of complaints, 456 ; number made without sufficient cause, 15.

Number of tenements ordered vacated, 20 ; number vacated in compliance with our orders, 8 ; number ordered to be vacated that have been put in proper sanitary condition, 17.

Number of notices issued through the police department and the mails, 498 ; number served by constables, 38 : total, 536.

Number of letters sent, 104.

PRIVIES. — The number of complaints of privy-vaults being full, not properly constructed, etc., has been smaller than in previous years. In all cases where it is practicable, we recommend that privies be removed and water-closets put in the houses.

During the past year 18 privies have been abandoned and water-closets put in.

ALEWIFE BROOK. — This nuisance on the westerly border of our city has increased during the year. It is caused by the contents of three main sewers (which drain an area of 864 acres), and the sewage from Niles Brothers' hog-slaughtering establishment, Muller's tannery and currying shop, and two other currying shops, all in the city of Cambridge, flowing into this brook and its tributaries.

Several cases of sickness have occurred in West Somerville, which have been caused, in the opinion of the attending physician, by this nuisance. Its odor, even in the coldest weather of the present winter, has been very offensive.

We complained to the mayor and aldermen of Cambridge in the summer ; and in a reply to one of our communications, his Honor the mayor stated that their city engineer was then making preliminary preparations for laying a sewer to divert the sewage emptying into the brook, and he presumed the work would be under way in the fall. At this date the work has not been commenced.

WAVERLY STREET SEWER OUTLET. — In the latter part of June, the filling of the mill-pond in the Charlestown District, in Boston, closed the channel or creek which formed the outlet for the Waverly Street sewer, causing the sewage from nearly all of East Somerville south of Pearl Street to accumulate upon the flats and marshes between the Mystic River Branch Railroad and Washington Street.

This at once became an intolerable nuisance, endangering the health of the people of Boston and Somerville residing in the vicinity, and it was necessary to abate it immediately.

The Act giving the city of Boston the right to fill the mill-pond required that city to provide for surface drainage. The discharge from the Waverly Street sewer and the surface water had flowed through the same creek into the mill-pond, and thence through Miller's River into the Charles.

By arrangement of this Board and the Boston Board of Health, the sewage and surface water were diverted into another creek, and a culvert was built under the Mystic River Branch of the Lowell Railroad at a cost of \$1,607, one half of which was paid by each city. Thus a new channel was provided through which the sewage and water flowed into Miller's and Charles Rivers as before.

#### LICENSES.

Licenses to keep swine and goats and to collect grease have been issued by the city clerk, in accordance with our recommendations, the same as in the two preceding years.

SWINE. — We have received applications for licenses to keep 225 swine. Licenses have been granted for 208 (including 150 at the McLean Asylum) and refused for 17.

GOATS. — Applications have been received for licenses to keep 25 goats, and they have all been granted.

GREASE. — We have received 12 applications for licenses to collect grease, all of which have been granted. Seven of the parties reside in Somerville, 2 in Boston, 2 in Cambridge, and 1 in Medford. The non-residents have presented recommendations from the Boards of Health of their respective places of residence, either in the past or some previous year.

We have given recommendations to 10 of our citizens for licenses to collect grease in Cambridge, and to 2 for licenses to collect in Boston.

We learn from the Boards of Health of Boston and Cambridge, respectively, that 46 residents of Somerville were licensed in 1880 to collect grease in the former city, and 11 in the latter.

## ASHES.

Ashes and house-dirt have been collected monthly by the Highway Department, under our direction. The collections are made on the first Monday of the month in Ward 1, on the second Monday in Ward 2, on the third Monday in Ward 3, and on the fourth Monday in Ward 4; and materials for removals (*which must not contain filth or offal*) should be placed *in barrels*, on the outer edge of the sidewalk, in the forenoons of these days.

Three thousand eight hundred and thirty-five loads have been collected, at a cost of \$961.23.

## HOUSE-OFFAL.

The contract with Mr. G. W. Cummings for the collection of house-offal expired June 25, and since that date it has been collected by Mr. Christopher Burke, under a three-years' contract, for a compensation of \$500 per annum; the price per annum paid Mr. Cummings being \$980.

The conditions of the new contract are the same as those of the former one, and provide 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.

The contract with Messrs. Russell and Fitch for the removal of night-soil, which would have expired April 24, was extended for one year. They are entitled to collect \$3.00 for each load or part of a load of eighty cubic feet removed in the months of April, May, June, July, August, September, and October, and \$2.00 for the same in the months of November, December, January, February, and March.

Number of vaults and cesspools emptied, 419.

Order-books are kept at the police station on Bow Street, and at the grocery store on the corner of Perkins and Franklin Streets.

## DISEASES DANGEROUS TO THE PUBLIC HEALTH.

SCARLET FEVER. — This disease has not prevailed to any great extent during the past year. But 43 cases and 6 deaths were reported; whereas in 1879 there were 171 cases and 16 deaths, and in the last ten months of 1878 there were 108 cases and 15 deaths. It is gratifying to be able to record the diminution in the number of cases of this dangerous disease. The general recognition by the people of its contagiousness, and the carrying out of measures suggested by the Board, together with an improvement in the sanitary condition of our city, must be regarded as the principal causes of this pleasing state of affairs.

This disease is not supposed to depend so much upon insanitary conditions as some others of the zymotic class, although its spread is much more rapid in localities where the drainage is poor. But in such places other factors equally potent in their influence are at work, prominent among which are the poverty of the people, large families, insufficient number of rooms, and the impossibility of isolating the sick one from the other members of the family. Bad drainage, insufficient sewerage, and all that these imply cannot originate it, as it always results from exposure to the germs of the disease. It may not always be possible to trace it out to its source, but medical authorities are unanimous in the belief that it is a specific disease; that is, having a special cause and capable of reproducing itself. By bearing this fact in mind, and acting on the principle which it suggests, more can be done toward stamping it out than by turning our efforts in any other direction.

We have continued the practice of fumigating every house in which a fatal case occurred, and when requested to do so by the family, have fumigated wherever a case was reported. We have also, during the past year, as soon as notification of the occurrence of the disease was received, caused to be placed in a conspicuous position on the house, a yellow card bearing in black letters the words "Scarlet Fever Here."



DIPHTHERIA. — There were 108 cases of this disease reported in 1880, with 19 deaths, as against 113 cases and 29 deaths in 1879.

The question of the cause of this disease is still an unsettled one, but there is general acceptance of the theory that in some way, insanitary conditions of the surroundings of our dwellings play an important part in its spread, if they do not originate it.

As in the two previous years, as soon as we had received a notice from the attending physician of a case of diphtheria, the inspector of the Board was instructed to make a careful examination of the dwelling and its surroundings; and any other facts having a possible bearing on the causation of the disease were also noted by him. His report, which is printed herewith, tells the old story of waste-pipes not trapped, soil-pipes not ventilated, drains broken, cellars damp, vaults and cesspools full and overflowing and in too close proximity to dwellings, water-closets untrapped, etc.

Comparatively few cases have occurred in houses occupied by their owners. The culpable negligence of owners of property who permit the continuance of the disgraceful state of affairs shown by our inspector's report is deserving of the censure of all well-meaning citizens. The expenditure of a few dollars would, in many instances, suffice to put their houses in a satisfactory condition; and if then disease visited the occupants, the owners would not be responsible. It may be that many do not believe that there can be any possible connection between a broken drain-pipe in the cellar, or an untrapped water-closet, and the occurrence of a case of diphtheria; whether that is the reason or not, we find it necessary in many cases to order the house vacated as unfit for habitation, before any attention is paid to our notices of sanitary defects. Generally, the condition of the house is not known by us until after the occurrence of a case of this disease, and sometimes it happens that other cases are reported in the family before our orders are complied with. We have found in so many instances, when examining houses in which cases of this disease have occurred, the conditions favorable to the entrance of sewer gas, that the question naturally arises, how many other dwellings in this city are in the same condition? We cannot help feeling that during the coming year there will be about the same number



of cases of diphtheria reported that there were during the past year. If the owners were to live in these houses we should not expect this result, for whether they believed in the sewer-gas theory or not, *they would give themselves the benefit of the doubt*. It is a sad reflection that so many removable causes of sickness will be allowed to remain in our midst through the negligence of many who are not themselves exposed to them.

Let us hope that our fears in this respect may not be realized, but that every house owner will see that there shall be no possibility of the entrance of sewer gas into his house. The expenditure of a little more money *inside* the house and less outside would result in much less sickness in the community. Fine exteriors captivate the eye, but it should be remembered *that we live inside*.

During the year we have fumigated every house in which a fatal case occurred, and where the cases did not prove fatal we have done so when requested by the family.

**TYPHOID FEVER** — More cases of this disease were reported during the year than in any like period since the organization of the Board. In the last ten months of 1878, there were 18 cases reported, and in 1879 there were but 15, while during the past year there were 39 cases.

We are not surprised at this increase. In our last report, when writing on this subject, we said: "When we consider that we have in our midst many of the predisposing causes of this disease, in imperfect drainage, filthy privies, nauseous cesspools, and large tracts of inhabited territory in which there are no sewers, the wonder is that we have had so few cases."

In making efforts to prevent the spread of this disease, we need neither accept nor reject the "germ" theory of its causation. It may be, as the advocates of this theory claim, that air made foul by exhalations from privies, stagnant pools, overflowing cesspools, etc., acts only as a predisposing cause. There are many difficulties attending the solution of this question. In tracing out the history of some of the cases which occurred during the year, we could find no evidence of exposure to typhoid fever.

We believe there is great danger to any person who exposes himself to the exhalations of a privy containing the fecal discharges

of a typhoid-fever patient. There can be no doubt that the "germ" of the disease passes off in the discharge from the bowels; hence the necessity of disinfecting them before they are thrown into privy or water-closet.

As soon as the disease is recognized by the attending physician he should report it to this Board, that we may supply the family with the proper materials for disinfecting.

We recommend the following solution for disinfecting the fecal dejections:—

Sulphate of iron (copperas), four pounds; carbolic acid, four ounces; water, two and one half gallons. Half a pint of this should be used each time the bowels are moved.

Clothing soiled by the fever patient should be disinfected by soaking in a solution of one part carbolic acid to forty parts water, and afterwards boiled.

By the two following tables is shown, first, the number of cases of scarlet fever, diphtheria, and typhoid fever reported in 1880, with the number of these cases that have up to this date proved fatal, and the percentage of deaths; second, the number of deaths from scarlet fever, diphtheria, and typhoid fever in 1877, 1878, 1879, and 1880.

## SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED IN 1880.

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 .....	12	3	23	27	7	26	1		
February .....	5			5			1		
March .....	4	1	25	9					
April .....	1			9	1	11	1		
May .....	4			1			2		
June.....	2						2	1	
July .....				6			1	1	
August .....	3	1	33	1			3	1	
September.....	4	1	25	4			9		
October.....	5			9	2	22	9	2	
November .....	1			12	3	25	6	1	
December .....	1			25	6	28	4	1	
Total .....	43	6	14	108	19	18	39	7	18

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

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





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DIPHTHERIA IN 1880. — INSPECTOR'S REPORT (Continued).

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.
46	American	Merchant	56	Female	32	July		2	Clayey Gravel	Good	Soil pipe not ventilated.		Two water-closets in house.	
47	"	Dentist	57	"	18	"		3	"	"	"			Taken sick the day she came to the house.
48	Nova Scotia	Harness-maker	58	"	6	"		5	Sand	"	Defect in drain pipe in cellar; waste pipe not trapped	Dry	Water-closet in cellar.	Stable within 6 feet of house and offensive.
49	American	Laborer	59	"	36	August		12	Clayey Gravel	"	"		Privy 8 feet from house; offensive.	
50	"	Merchant	60	"	26	September		7	"	"	Defective; waste pipe not trapped	Damp	Earth closet up-stairs offensive.	
51	"	Carpenter	61	"	17	"		10	"	"	Fair		Privy 15 feet from house.	Cesspool 5 feet from house and overflowing.
52	Irish	Laborer	62	Male	12	"			"	"	Waste pipe not trapped.	"	Privy 15 feet from house; vault full.	{ Cow stable adjoining house and draining
53	American	Merchant	63	Female	5	October	Fatal	5	Clay	"	"		Water-closet in bath room.	{ on surface.
54	"	Book-keeper	64	Female	11	"		5	Clayey Gravel	Good	Defect in drain pipe in cellar; waste pipe not trapped	Dry		
55	"	Salesman	65	Male	7	"		10	Sand	"	Soil pipe not ventilated.	"		
56	"	Mechanic	66	"	11	"		5	Clayey Gravel	"	Waste pipe not trapped.	"	Privy 10 feet from house.	
57	"	Chemist	67	"	6	"		9	"	"	Connection of w. and d. p. defective; w. p. not trapped.	"	Water-closet in bath room.	
58	"	Com. Merchant	68	Female	22	"		6	"	"	Fair	"	"	
59	Irish	Laborer	69	Male	6	"		5	"	"	Good	"	"	{ Drainage from house into vault, thence
60	"	"	70	"	1	"	Fatal	1	Clay	Low	Waste pipe not trapped.	Damp	Privy 12 feet from house; vault full.	{ into cesspool.
61	"	"	71	Female	7	"		6	"	"	Wet	No cellar	" adjoining house.	
62	American	Teamster	72	"	4½	November		1	Clayey Gravel	Low	Flowing under house; waste pipe not trapped.	Basement rooms	15 feet from house; vault full.	
	"	Com. Merchant	73	"	14	"		7	"	"	Good		Water-closet in bath room.	
	"	"	74	"	5	December	Fatal		"	"	"			
	"	"	75	"	10½	"			"	"	"			
	"	"	76	"	35	"			"	"	"			
	"	"	77	"	40	"			"	"	"			
63	"	Travelling Salesman	78	"	8	November		7	"	"	"	Slightly damp	Water-closet in bath room.	
64	Nova Scotia	Produce	79	Male	4½	"		7	"	"	Waste pipes not trapped.	Dry	" " cellar.	Visited child sick with diphtheria.
	"	"	80	Female	30	December			"	"	Drainage not ventilated	"	" " bath room.	
65	Canadian	Laborer	81	"	13	November		1	"	"	Low and damp	"	" " " "	Pool of stagnant water within 12 ft. of house.
66	Irish	Railroad Agent	82	"	3½	"		6	"	"	Fair	"	" " " "	
67	American	Salesman	83	Male	4	"		7	"	"	Good	Damp	" " " "	
68	Scotch	Printer	84	"	3	"	Fatal	1	Clay	Fair	Soil pipe not ventilated.	Dry	In yard 20 feet from house.	
69	Irish	Laborer	85	Female	9	"		4	Sand	Low	Emptying on surface	Damp	10 " " vault full.	{ Cow stable and manure heap within 10 feet
	"	"	86	"	3½	"	Fatal		"	"	"	"	" " " "	{ of house and offensive.
70	Nova Scotia	(Widow)	87	"	9	"		1	Clayey Gravel	"	Drain pipe defective; waste pipe not trapped.	Basement rooms	" 8 " "	
71	Irish	Grocer	88	Male	1½	"	Fatal	1	Clay	"	Cesspool under house; waste pipe not trapped	Damp	30 feet from house; filthy.	
72	American	Salesman	89	"	5	December		2	Clayey Gravel	Good	Waste pipe not trapped.	Dry	10 " " "	
73	"	Milk Business	90	Female	7	"		3	Sand	Low	" " "	"	Adjoining house.	Stable adjoining house.
	"	"	91	Male	13	"			"	"	"			
	"	"	92	"	9	"			"	"	"			
	"	"	93	Female	3	"	Fatal		"	"	"			
74	Irish	Laborer	94	"	2½	"		2	Clayey Gravel	"	Connection of w. and d. p. defective; w. p. not trapped	Damp	6 feet from house; vault full.	Offal thrown into yard.
	"	"	95	"	4½	"	Fatal		"	"	"			
75	German	Upholsterer	96	"	4	"		9	Sand	Good	Soil pipe not ventilated	Dry	Water-closet in bath room.	
76	English	China Decorator	97	"	4	"	Fatal	3	"	Low	Into cesspool 10 feet from house; waste pipe not trapped	Damp	12 feet from house; vault full.	
	"	"	98	"	6	"			"	"	"			
	"	"	99	Male	1	"	Fatal		"	"	"			
77	German	"	100	Female	7½	"		10	Clayey Gravel	Fair	Waste pipe not trapped.	Dry	Water-closet in cellar.	
78	Irish	Slater	101	Female	23	"		3	Sand	Low	" " "	Basement rooms	" adjoining kitchen	Waste water of sink supplies water-closet.
79	American	Teamster	102	"	7	"	Fatal	5	"	Good	" " " connection of s. p. and d. p. defective	Dry	" in bath-room.	
80	"	Engraver	103	"	21	"		6	Clayey Gravel	Damp	" " "	"	30 feet from house.	
81	"	Carpenter	104	"	47	"		2	"	Good	Drain pipe in cellar defective	"	Water-closet in cellar.	
82	"	Printer	105	Male	7	"		3	Sand	Low	Into cesspool; waste pipes not trapped.	Damp	10 feet from house; vault full	Wooden box drains.
83	"	Manufacturer	106	Female	23	"		2	Clayey Gravel	Good	Drain pipe clogged; waste pipes not trapped.	"	6 " " "	
84	Irish	Barrel Business	107	Male	38	"		3	Clay	Low	Blind drain from cellar connecting with sewer not trapped.	Damp	Water-closet in cellar.	
85	"	Laborer	108	Female	10	"		1	Clayey Gravel	Fair	Drainage not ventilated	"	" " "	



SMALL-POX. — While several of the cities in this State have been visited by this disease, we have fortunately been free from it. Weekly reports come to us of its prevalence in many sections of the country, and we should be on our guard lest the disease should obtain a foothold here.

We would again “urge upon you the importance of making provision at once for the vaccination of all persons in the city who are not already protected by this means.”

In November, the city physician was directed by the Board to procure some vaccine virus, and be prepared to vaccinate such school children and others as might come to him for that purpose. The teachers were notified of his readiness to do this work; but, probably owing to the fact that very few children who have not been vaccinated attend our schools, only a small number of the pupils presented themselves.

MEASLES. — In 1878 and 1879, a few cases of this disease were known to be in the city. During the past year, the first knowledge we had of its presence was in the month of February, and at that time we knew of only a few cases. It spread slowly during the months of March and April, and by the first of June we were aware of its existence in many sections of the city. During the month of June it spread more rapidly, but in July and August its progress was much slower. Since that time, its increase has been quite marked, until at this writing there is hardly a section of the city that has not had some cases. The epidemic has fortunately thus far been a mild one, no fatal case having been reported to this office.

The disease is very contagious, and those persons who are anxious to keep it out of their families should be very careful that they do not expose themselves or their children to it.

#### DEATHS.

We have approved certificates of 428 deaths and 37 still-births, as shown in the accompanying mortality table.

We also present a table of mortality in eleven Massachusetts cities (including Somerville), in 1880.

## MORTALITY IN SOMERVILLE IN 1880.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
<b>Zymotic Diseases.</b>													
MIASMATIC.													
Scarlet Fever.....	2	1	1						2				6
Diphtheria.....	7			1						2	1	8	19
Croup.....	2			2						2	1	2	9
Typhoid Fever.....						1	1	1		2	1	1	7
Erysipelas.....							1	1					2
Dysentery.....			1				1	1		1	1		5
Diarrhœa.....	1				1		4	2	2	2			12
Cholera Infantum.....						3	18	14	4	1			40
Cholera Morbus.....							1		1				2
Cerebro-Spinal Meningitis.....			1			1							2
Puerperal Peritonitis.....			1						1				2
Puerperal Convulsions.....		1											1
Septicæmia.....	1						1						2
Rheumatism.....							1					1	2
Gastric Fever.....							1						1
Typho-Bilious Fever.....					1								1
ENTHETIC.													
Syphilis.....										1			1
<b>Constitutional Diseases.</b>													
DIATHETIC.													
Pernicious Anæmia.....			1										1
Dropsy.....		1											1
Cancer.....	1			1			1		1			1	5
Cancer of Breast.....					1								1
Cancer of Womb.....											1		1
Cancer of Stomach.....			1			1							2
Mortification.....	1												1
TUBERCULAR.													
Phthisis Pulmonalis.....	7	6	6	5	5	4	3	6	5	7	7	7	68
Tubercular Meningitis.....			2	2					1			1	6
Hydrocephalus.....						1		1			1		3
Marasmus.....	1	1			1	1	1	2	2				9
<b>Local Diseases.</b>													
NERVOUS SYSTEM.													
Apoplexy.....	2		1		3				1		2		9
Paralysis.....			1	2				1				3	7
Insanity.....						1		2		1			4
Inflammation of Brain.....								1					1
Brain Diseases.....	1			1		1			2	1	2		8
Cerebral Meningitis.....			1	2							1	2	6
Spinal Meningitis.....		1											1
Meningitis.....				1		1		1		1			4
Convulsions.....	1			2			2		1	1			7
ORGANS OF CIRCULATION.													
Cerebral Embolism.....				1									1
Heart Diseases.....	3		4	3	1	2	2		1	2		1	19
RESPIRATORY ORGANS.													
Pneumonia.....	3	5	4	10	2	3	1	1	1	3	3	6	42
Bronchitis.....	1	3		1	4			1		1			11
Pleurisy.....											1		1
Imperfect Respiration.....												1	1
Lung Diseases.....						1							1



MORTALITY IN SOMERVILLE IN 1880. — *Continued.*

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
<b>DIGESTIVE ORGANS.</b>													
Gastro-Enteritis.....					1	1							2
Gastritis.....	1						1						2
Enteritis.....									1	1			2
Peritonitis.....		1						1	1		1		4
Hepatitis.....			1			1						1	3
Jaundice.....				1			1						2
Liver Diseases.....					1		2	1		1			5
Colic.....							1						1
Stomatitis.....									1				1
Inanition.....					1		3					1	5
Ascitis.....								1				1	2
<b>URINARY ORGANS.</b>													
Nephritis.....	1												1
Bright's Disease.....	1		1	2	1			1		1			7
Diabetes.....						1	2						3
Disease of Kidneys.....				1	1					1			3
Disease of Bladder.....			1										1
<b>GENERATIVE ORGANS.</b>													
Ovarian Disease.....								1					1
<b>Developmental Diseases.</b>													
<b>OF CHILDREN.</b>													
Premature Birth and Infantile Debility.....				1		1			1	2	4	2	11
Cyanosis.....												1	1
<b>OF OLD PEOPLE.</b>													
Old Age.....	1	2	3	3	1	1			1	1		1	14
<b>DISEASES OF NUTRITION.</b>													
General Debility.....									2			1	3
Exhaustion.....	1			1									2
<b>Violent Deaths.</b>													
Murder.....					1								1
Railroad.....			1	1			1					1	4
Drowning.....					1								1
Burns and Scalds.....	2			1									3
Fell down Stairs.....										1			1
Accident not specified.....										1			1
SUICIDE.....	1		1										2
UNKNOWN.....		1							2			1	4
Total.....	42	23	33	45	27	26	50	40	34	37	27	44	428
Still-born.....	2	7	2	3	2	1	2	4	4	3	3	4	37

Population as per census of 1880.....24,985

Death rate per thousand..... 17.1



## MORTALITY IN ELEVEN MASSACHUSETTS CITIES IN 1880.

	Population.	Deaths.	Rate per Thousand.
Cambridge .....	52,860	1,006	19.0
Chelsea .....	21,780	476	21.9
Fall River .....	48,626	1,354	27.8
Gloucester.....	20,000	420	21.0
Haverhill .....	18,468	350	19.0
Lawrence.....	39,300	875	22.3
Lowell.....	59,485	1,308	22.0
Lynn .....	38,376	778	20.3
Salem ....	28,186	632	22.4
Springfield.....	33,500	669	20.0
Somerville.....	24,985	428	17.1

## REGULATIONS.

HOUSE DRAINAGE. — In the large number of houses examined by this Board during the past three years, the cause of a majority of the sanitary defects has been poor workmanship and defective systems of house drainage.

With the benefit of this experience, and after consulting with several other boards of health in this vicinity, and the medical officer of the State Board of Health, we have adopted and published the following regulations, copies of which have been printed for distribution: —

## REGULATIONS FOR THE CONSTRUCTION OF HOUSE DRAINAGE.

## CITY OF SOMERVILLE.

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.

STABLES. — Complaints are received every year of offensive stables and manure heaps, and they have heretofore been dealt with entirely under the general health laws.

For the purpose of informing stable keepers what is required of them, and of reducing the number of these complaints, we have adopted and published the following regulations; copies have also been printed for distribution.

REGULATIONS CONCERNING STABLES AND THE REMOVAL OF MANURE.

CITY OF SOMERVILLE.

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.

#### SEWERS.

During the year sewers have been laid by the city government in Fountain Avenue and Tufts Street, by means of which the nuisances in these localities noted in our last report have been abated.

The sewer recently laid in Pearl Street, from Cross Street to Marshall Street, will give the owners of property benefited an opportunity to drain their wet lands.

The sewage from several houses on Belmont Street discharges into the open gutter. A sewer has been petitioned for, and there is no doubt that it is needed.

The "Patch," Lowell and Hinckley Streets, and Jenny Lind Avenue and vicinity, and the streets on the northeast side of Winter Hill, are in the same condition as mentioned in our last report. The soil in these districts is retentive and generally damp, and cesspools soon overflow.

#### MYSTIC WATER.

Complaints of the condition of the Mystic water were not as frequent during the past summer as in 1879.

At a recent visit to Dow & Co.'s tannery in Woburn, representatives of this Board saw that the filth was discharged, without any attempt at filtration, into one of the tributaries of the Mystic Lake.

At Cummingsville, where the tanneries of John Cummings & Co. and Bishop & Co. are located, upon another tributary of the lake, the filthy condition of the stream below the tanneries, as compared with the clear and sparkling brook above, shows that the method of filtration adopted, and of which mention was made in our last report, is not a success in the winter season.

We are of the opinion that the discharge of this filth into our water supply is injurious to the health of the water takers, and is a probable cause of sickness in our city.

The fact that the chemists employed by the Boston Water Board



(whose reports have been published with the annual reports of that Board) claim to show by their analyses that the water "is still good and well suited for domestic supply," is not conclusive that the pollution is not the cause of sickness, as it is well known that water may be polluted and the chemist be unable to detect it by analysis.

The following is from the testimony, before the State Board of Health, of E. S. Wood, Professor of Chemistry at the Harvard Medical School:—

" Q. Whether or not water may be contaminated by poisonous animal matter so as to be unfit to drink, and yet not to be detected by a chemist?— A. It is an acknowledged fact that it is a possible thing.

" Q. Poison may result from animal matter getting into the water; that is, water may be in that way poisoned?— A. Yes, sir.

" Q. So that chemical analysis would not detect it?— A. Yes, sir.

" Q. How, then, would it be ascertained by the results to the human system?— A. In the production of sickness.

" Q. Is it acknowledged to be a fact among medical men?— A. That is the prevailing opinion." (State Board of Health, January, 1879, p. 152.)

#### DISTRICTS.

We continue in this report a comparison of the rates of mortality and the prevalence of dangerous diseases and nuisances in the ten sanitary districts of the city.

In the reports of this Board for the years 1878 and 1879, the locations and characteristics of these districts were given in detail.

The soil in Districts I., II., III., V., VI., VII., VIII., and X. is principally clay or clayey gravel; in District IV. it is sandy; and in District IX. it is in some parts sand and in others clay or clayey gravel.

The elevation of Districts I. III., and IV. is low, as is the elevation of that part of District VIII. bordering on Mystic River. The remainder of the city is generally well elevated; the highest parts



of Districts II., V., VI., VII., VIII., and X. ranging from 90 to 145 feet above mean low tide.

The accompanying map shows the boundaries of the districts, the locations of sewers laid prior to January, 1879, and their outlets and the location of each case of scarlet fever, diphtheria, and typhoid fever reported, and each fatal case.

The first of the four following tables shows the number of deaths in each district during the last seven years (exclusive of deaths in the McLean Asylum for the Insane), with the death rate per 1,000 of the population, the area of each district, the estimated population, the number of dwellings, and the average number of people per dwelling in the year 1880; the second shows the five principal causes of death in Somerville, in 1880, with the number of each and the rate per 1,000 of population in each district; the third shows the number of cases of scarlet fever, diphtheria, and typhoid fever in each district reported in 1880, with the number of these cases that have up to this date proved fatal, and the number of cases and number of deaths per 1,000 of population; the fourth shows the number of nuisances abated in each district in 1880.

TABLE OF DEATHS IN EACH DISTRICT DURING THE LAST SEVEN 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.		2,669 A.	
Population..	4,552		4,442		1,721		3,054		4,775		1,055		2,610		777		1,388		611		24,985	
	730		679		285		500		816		255		447		160		273		136		4,281	
Average in each dwell'g.	6.2		6.5		6		6.1		5.8		4.1		5.8		4.9		5.1		4.5		5.8	
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	8	475	22	8
1875	149	37	84	22	26	17	56	21	75	18	29	32	32	14	13	19	15	12	7	486	22	15
1876	113	30	62	17	17	12	62	24	78	20	23	26	25	12	11	17	25	22	10	426	21	20
1877	126	32	57	15	18	12	57	22	61	15	31	34	29	13	12	18	32	27	5	428	20	10
1878	92	22	50	12	32	21	53	19	53	12	24	25	32	14	15	21	17	14	7	375	17	13
1879	92	21	50	12	29	18	62	22	77	17	14	14	22	9	19	19	16	12	9	385	16	16
1880	104	23	56	13	34	20	55	18	70	15	30	28	32	12	19	24	12	10	11	423	17	18
7 years.	823	29	412	15	180	17	431	23	481	16	185	33	198	12	101	21	135	16	52	2998	20	15

In 1880.

TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH  
IN SOMERVILLE IN 1880, WITH THE NUMBER AND RATE  
IN EACH DISTRICT.

DISTRICTS.	CONSUMPTION.		PNEUMONIA.		CHOLERA INFANTUM.		HEART DISEASE.		DIPHThERIA.	
	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.....	14	3.08	11	2.42	18	3.98	4	0.88	4	0.88
II.....	6	1.35	1	0.23	2	0.45	5	1.12	3	0.68
III.....	8	4.65	3	1.74	5	2.91	1	0.58	3	1.74
IV.....	15	4.91	7	2.29	2	0.65	.....	.....	1	0.33
V.....	10	2.09	8	1.68	4	0.84	1	0.21	5	1.05
VI.....	3	2.85	3	2.85	1	0.95	1	0.95	2	1.90
VII.....	4	1.53	4	1.53	2	0.77	3	1.15	1	0.38
VIII.....	2	2.57	.....	.....	5	6.44	1	1.29		
IX.....	2	1.44	3	2.16	1	0.72	2	1.44		
X.....	4	6.55	2	3.27	.....	.....	1	1.64		
Total.....	68	2.72	42	1.68	40	1.60	19	0.76	19	0.76

TABLE OF SCARLET FEVER, DIPHThERIA, AND TYPHOID  
FEVER IN EACH DISTRICT IN 1880.

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.....	5	.....	1.10	.....	11	4	2.42	0.88	14	2	3.08	0.44
II.....	6	.....	1.35	.....	27	3	6.08	0.68	4	2	0.90	0.45
III.....	1	1	0.58	0.58	15	3	8.72	1.74	1	.....	0.58	
IV.....	5	.....	1.64	.....	7	1	2.29	0.33	7	.....	2.29	
V.....	14	3	2.93	0.63	18	5	3.77	1.05	6	1	1.26	0.21
VI.....	1	1	0.95	0.95	6	2	5.69	1.90	1	.....	0.95	
VII.....	4	1	1.53	0.38	14	1	5.36	0.38	3	2	1.15	0.77
VIII.....	1	.....	1.29	.....	3	.....	3.86	.....	1	.....	1.29	
IX.....	4	.....	2.88	.....	3	.....	2.16	.....	1	.....	0.72	
X.....	2	.....	3.27	.....	4	.....	6.55	.....	1	.....	1.64	
Total.....	43	6	1.72	0.24	108	19	4.32	0.76	39	7	1.56	0.28

## NUISANCES ABATED IN EACH DISTRICT IN 1880.

District.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total.
Population.....	4293	4189	1623	2880	4503	995	2461	733	1309	576	23562
Cellar damp.....	4	2	....	1	4	1	1	1	....	....	14
Cesspool defective.....	1	....	....	....	....	....	....	....	2	....	3
“ in cellar overflowing.....	....	....	....	....	....	....	....	....	....	1	1
“ overflowing.....	2	....	1	2	6	....	....	....	4	3	18
“ under house.....	1	....	....	....	....	....	....	....	....	....	1
Connections of waste with drain-pipes defective.....	2	6	....	5	14	1	5	1	2	....	36
Drainage defective.....	4	2	2	7	4	....	4	....	4	6	33
“ emptying in cellar.....	3	6	1	6	3	....	....	1	1	3	24
“ emptying on surface.....	18	2	2	12	7	6	2	5	7	....	61
Drain-pipe broken and leaking.....	....	....	....	1	1	....	....	....	....	....	2
“ in cellar defective.....	5	3	....	....	11	1	7	2	....	....	29
“ not trapped.....	1	....	....	1	4	....	3	....	....	....	9
“ stopped up.....	4	1	3	1	....	....	3	....	....	....	12
Filth in cellar.....	....	2	....	....	....	....	....	....	....	1	3
“ on premises.....	4	1	....	1	1	....	1	....	....	1	9
Goat kept in cellar.....	....	1	....	....	....	....	....	....	....	....	1
Hennery offensive.....	....	....	....	....	1	....	....	....	1	....	2
Hens kept in cellar.....	....	....	....	....	....	....	....	....	1	1	2
Horse kept under house.....	1	....	....	....	....	....	....	....	....	....	1
Manure exposed and offensive.....	3	2	1	3	4	2	4	....	1	2	22
Offal in cellar.....	....	1	....	....	....	....	....	....	....	....	1
“ on land.....	6	2	....	....	2	....	....	....	....	....	10
“ thrown into vault.....	....	....	....	4	....	....	....	....	....	....	4
Offal-bucket offensive.....	....	....	....	....	1	....	....	....	....	....	1
Offensive materials carted through streets.....	1	....	....	....	....	....	....	....	....	....	1
Offensive odor in and around dwellings.....	1	....	....	....	1	....	....	....	....	....	2
Opening in drain-pipe in yard.....	....	....	....	....	1	....	....	....	....	....	1
Refrigerator connected with soil-pipe.....	....	....	1	....	....	....	....	....	....	....	1
Sewer-outlet cut off.....	1	....	....	....	....	....	....	....	....	....	1
Sink defective.....	....	....	....	....	1	....	1	....	....	....	2
Slops thrown on surface.....	9	....	....	2	....	....	....	....	2	....	13
Soil-pipe not connected with drain-pipe.....	....	....	....	....	....	....	....	....	....	1	1
“ not ventilated.....	....	4	....	1	2	....	6	....	....	....	14
“ open at top to take overflow from water-tank..	....	....	2	....	....	....	....	....	....	....	2
Stable filthy.....	1	1	....	....	....	....	....	....	....	....	2
“ and stable premises offensive.....	2	2	....	1	....	....	2	....	....	....	7
Stagnant water in house cellar.....	5	1	1	1	....	....	....	....	1	....	9
“ in stable cellar.....	2	....	....	....	....	....	2	....	....	....	4
“ on surface.....	8	....	1	2	4	....	....	1	1	....	17
Vault full.....	28	20	2	17	17	11	7	4	7	4	117
“ leaking.....	6	....	....	1	....	....	2	....	....	....	9
“ not properly constructed.....	....	....	1	....	8	....	2	....	3	....	14
“ not properly ventilated.....	....	....	....	....	1	....	1	....	....	....	2
“ offensive.....	11	5	2	10	8	2	6	2	9	1	56
Waste-pipes defective.....	....	....	....	....	1	....	1	....	....	....	2
“ not trapped.....	9	15	8	20	40	1	16	2	3	5	119
“ stopped up.....	1	....	....	1	....	....	1	....	....	....	3
Water-closet defective.....	....	1	....	1	1	....	....	....	....	1	4
“ filthy.....	....	....	....	....	....	....	1	....	....	....	1
“ insufficiently supplied with water.....	....	1	....	....	....	....	2	....	....	....	3
“ not supplied with water.....	....	2	....	1	....	....	....	....	....	....	3
“ not trapped.....	....	3	....	2	....	....	....	....	....	....	5
“ offensive.....	....	....	....	1	....	....	....	....	....	....	1
Wooden waste-pipes and drains.....	5	3	....	2	4	....	1	....	....	....	15
	149	89	28	107	152	25	81	19	50	30	730

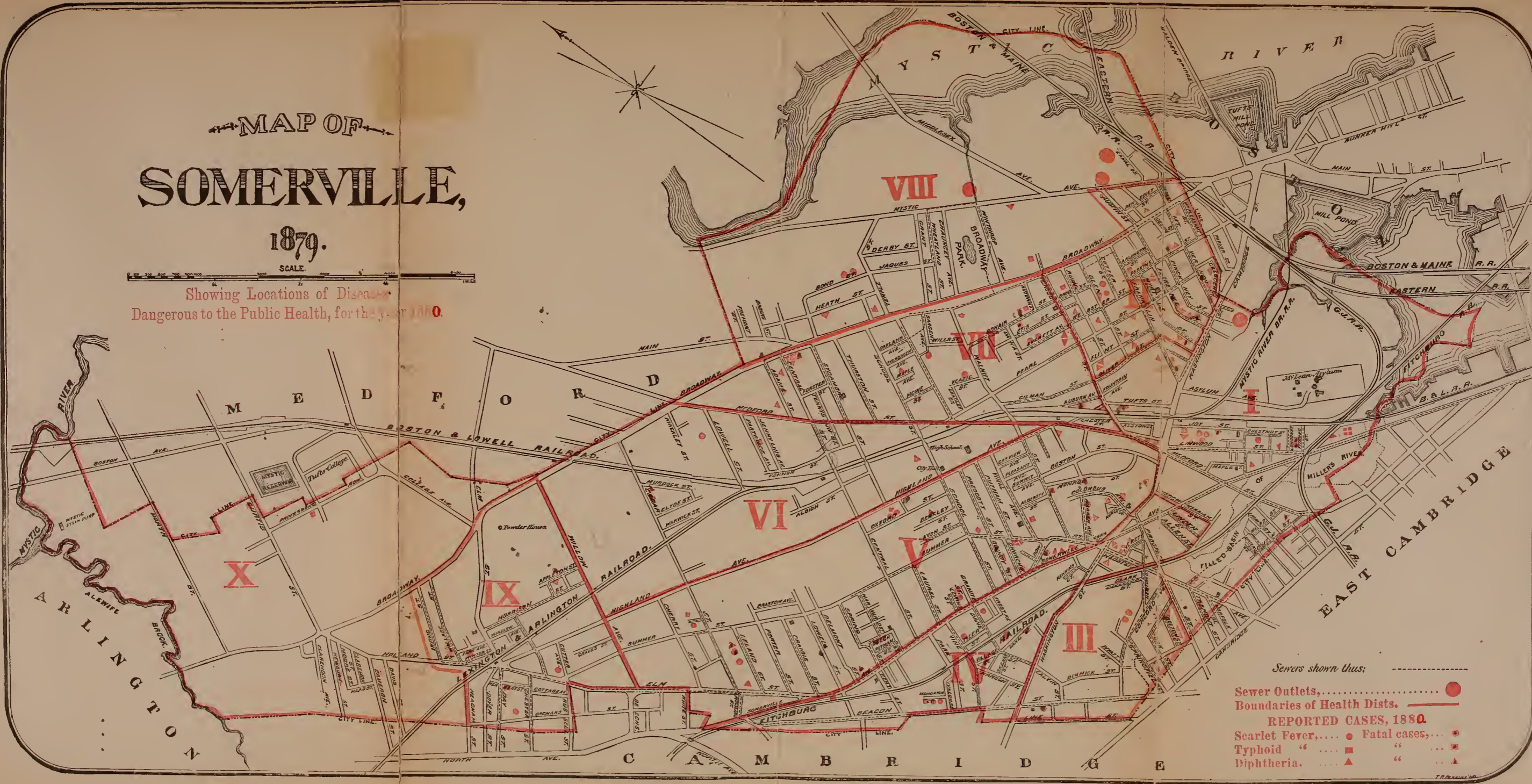


# MAP OF SOMERVILLE,

1879.

SCALE.

Showing Locations of Diseases  
Dangerous to the Public Health, for the year 1880.



Sewers shown thus: - - - - -

Sewer Outlets, ..... ●

Boundaries of Health Dists. ———

REPORTED CASES, 1880.

Scarlet Fever, .... ● Fatal cases, ... ●

Typhoid " .... ■ " " " " ■

Diphtheria, .... ▲ " " " " ▲





APPROPRIATION FOR HEALTH DEPARTMENT AND EXPENDITURES THEREFROM, 1880.

Appropriation,		\$2,700 00
Expended : —		
For collecting ashes,	\$961 23	
“ “ offal,	808 01	
“ filling, in private ways,	7 50	
“ care of scarlet-fever patients,	24 79	
“ fumigating,	66 00	
“ burying animals,	16 50	
“ oil of peppermint,	34 00	
“ disinfectants, bluing, etc.,	14 63	
“ vaccine virus,	7 50	
“ books, printing, and advertising,	91 05	
“ stamps and wrappers,	5 59	
“ serving notices, expressing, etc.,	2 05	
“ salary of inspector,	500 00	
“ “ clerk,	100 00	
“ one half cost of culvert under Lowell Railroad,	803 50	
		<u>3,442 35</u>
Excess of expenditures over appropriation,		<u>\$742 35</u>

GEO. A. KIMBALL, C. E., *Chairman*.  
 JOHN F. COUCH, M. D.  
 JOHN A. CUMMINGS.

## REPORT OF THE CITY PHYSICIAN.

---

CITY PHYSICIAN'S OFFICE, BOW STREET,  
Jan. 1, 1881.

*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, 1880 :—

I have made during the year 2,128 visits. Of these, 2,043 were medical and 85 surgical; 118 persons were prescribed for in my office; 15 obstetric cases were attended; 13 visits were made to the police station; 38 children were vaccinated; 26 persons had teeth extracted. I have viewed the bodies of 9 persons who died without a physician in their last illness, and in each case given a certificate of the probable cause of death. Among the duties of the city physician is the examination of supposed cases of insanity. The law requires the sworn statements of two physicians before the removal of the patient. I have investigated 9 cases during the year, and signed 7 certificates. It has also been my duty to examine persons who have been drawing pensions from disability resulting from wounds received and exposure during the civil war, to determine whether they are still entitled to relief. I have had 4 cases come before me for examination, and gave certificates in accordance with the results.

Respectfully submitted,

JOHN F. COUCH, M. D.,

*City Physician.*

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REPORT

OF THE

COMMITTEE ON WATERING STREETS.

## CITY OF SOMERVILLE.

---

IN BOARD OF ALDERMEN, Dec. 28, 1880.

Report accepted, and referred to the next city government, with instructions to print in the Annual Reports for 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

---

IN COMMON COUNCIL, Dec. 28, 1880.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

---

DECEMBER 28, 1880.

The Joint Standing Committee on Water beg leave to submit this their final report:—

Total amount paid for watering streets,	\$2,027 17
Amount paid city of Boston for water,	1,138 20
	<hr/>
	\$3,165 37
Amount collected from abutters,	2,032 78
	<hr/>
Leaving net cost to city,	\$1,132 59
	<hr/> <hr/>

J. J. UNDERHILL.  
A. B. GOOKIN.  
J. W. BAILEY .  
H. A. PRATT.  
THOS. R. ROULSTONE.



REPORT

OF THE

COMMITTEE ON FUEL AND STREET LIGHTS.



## CITY OF SOMERVILLE.

---

IN BOARD OF ALDERMEN, Dec. 28, 1880.

Report accepted and referred to the next city government, to be printed in the Annual Reports for 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

---

IN COMMON COUNCIL, Dec. 28, 1880.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

---

DECEMBER 28, 1880.

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

The whole number of lights in the city at the present time is 374; 325 burning gas and 49 burning oil. Thirteen additional lights have been added during the year. The lights have been burning 205 nights during the year, consuming 363,664 cubic feet of gas, of which the Charlestown Gas Light Company furnished 162,524 feet, at an average cost of  $3\frac{7}{8}$  cents per lamp each night. The Cambridge Gas Company furnished the balance, at an average cost of  $4\frac{1}{2}$  cents per lamp each night. The total cost each night for gas has been \$16.56. The expense of the oil lamps is about 10 cents per night, which includes their care and oil.

J. J. UNDERHILL.

SEWARD DODGE.

EDWARD McHUGH.

W. E. WELD.

THOS. R. ROULSTONE.



REPORT  
OF THE  
COMMITTEE ON FIRE DEPARTMENT.

## CITY OF SOMERVILLE.

---

IN BOARD OF ALDERMEN, Dec. 28, 1880.

Report accepted, and referred to the next city government, to be printed in the Annual Reports for 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

---

IN COMMON COUNCIL, Dec. 28, 1880.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*



## CITY OF SOMERVILLE.

---

IN BOARD OF MAYOR AND ALDERMEN, Dec. 28, 1880.

*To his Honor the Mayor and the City Council :*

The Committee of Fire Department, in closing their labors for the year 1880, would respectfully submit the following report.

The appropriation made for the expenses of the Fire Department was \$20,000 ; of this amount, \$13,176 was paid for salaries, leaving a balance of only \$6,824 for the repairs of buildings and apparatus, supplies for fire-alarm telegraph, and all other necessary expenses.

Your committee have endeavored to keep the department in an efficient condition, and not exceed the appropriation ; we are obliged, however, to show a small excess of \$815.52.

When you consider that our city of 25,000 inhabitants is built of the most combustible material, and that with its school-houses, churches, and large business industries, the loss by fire has been only \$10,185, with a paid insurance of \$6,940, leaving a net loss to our citizens of only \$3,245, we think you will agree with us that the Fire Department has been efficiently and prudently managed.

We can also say that the cost of running this department is less than in any previous municipal year since 1872.

Respectfully submitted,

S. M. PENNOCK,  
*For Committee.*



REPORT

OF THE

COMMITTEE ON PUBLIC PROPERTY.

## CITY OF SOMERVILLE.

---

IN BOARD OF ALDERMEN, Dec. 28, 1880.

Report accepted, and referred to the next city government, to be printed in the Annual Reports for 1880. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

---

IN COMMON COUNCIL, Dec. 28, 1880.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

## CITY OF SOMERVILLE.

---

IN COMMITTEE ON PUBLIC PROPERTY, Dec. 28, 1880.

To his Honor the Mayor and the City Council :

Your Committee on Public Property, having reported upon all matters referred to them, submit the following *statement of expenditures* made under their direction : —

### POLICE STATION INCIDENTALS.

Appropriation,	\$2,300 00	
Receipts for use of halls to date,	247 48	
Total,	<hr/>	\$2,547 48
Expended : —		
For janitor's salary,	\$716 66	
“ gas,	346 10	
“ oil for carburetter,	160 70	
“ balance cost of carburetter,	400 00	
“ coal and wood,	315 60	
“ water,	68 00	
“ insurance,	20 00	
“ filling and gravel,	54 80	
“ repairs,	350 59	
“ sundry small expenses,	115 28	
Total,	<hr/>	2,547 73
Excess of expenses over appropriation,		<hr/> <hr/> \$0 25



## PUBLIC PARK MAINTENANCE.

Appropriation,		\$1,200 00
Expended : —		
For pay of foreman,	\$720 00	
“ lighting and cleaning lamps,	70 00	
“ additional labor,	323 39	
“ loam, sods, manure, and gravel,	353 25	
“ seed,	14 45	
“ plants,	47 00	
“ fertilizer,	4 00	
“ repairing fence,	10 00	
“ sundry small expenses,	50 88	
Total,	<hr/>	1,592 97
Excess of expenses over appropriation,		<hr/> <hr/> \$392 97

## SCHOOL-HOUSE REPAIRS.

Appropriation,		\$5,800 00
Receipts for use of halls to date,		798 52
Total,		<hr/> \$6,598 52
Expended : —		
For general repairs, furniture, etc.,	\$4,256 14	
“ repairs and alterations at Morse School,	1,202 83	
“ rent,	842 50	
“ gas,	200 35	
“ insurance,	236 80	
“ trees, loam, and care of grounds,	315 55	
“ emptying vaults,	149 00	
“ sidewalk assessment, Bonner Ave.,	120 25	
“ disinfectant,	20 00	
“ stationery and advertising,	11 60	
Total,	<hr/>	7,355 02
Excess of expenses over appropriation,		<hr/> <hr/> \$756 50

## MISCELLANEOUS ACCOUNT.

Expended :—

For City Hall expenses, as follows :—

“ gas,	\$297 61	
“ wood and coal,	227 41	
“ water,	50 00	
“ ice for 1879,	46 80	
“ repairs and incidentals,	236 60	
	<hr/>	\$858 42
For care of flag-staffs,		21 00
“ carriage hire,		4 00
“ care of ward-rooms,		42 30
“ use of hall for caucus,		10 00
		<hr/>
Total,		<u>\$935 72</u>

## SCHOOL-HOUSE ON HIGHLAND AVENUE.

Appropriation,	\$4,186 80	
Transfer from Public Park account,	10,000 00	
Total,	<hr/>	\$14,186 80
Expended :—		
For 23,260 feet of land at 18c.,	\$4,186 80	
“ advertising and postal cards,	25 13	
“ water service pipe,	38 15	
“ mason work (on account),	2,470 00	
“ architect's services (on account),	300 00	
Total,	<hr/>	7,020 08
Balance unexpended,		<u>\$7,166 72</u>

For the Committee,

SEWARD DODGE, *Chairman.*



REPORT  
OF THE  
COMMITTEE ON CLAIMS.

## CITY OF SOMERVILLE.

---

IN BOARD OF ALDERMEN, Dec. 28, 1880.

Accepted. Referred to the next city government, with instruction to print the same in the Annual Reports, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

---

IN COMMON COUNCIL, Dec. 28, 1880.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*



## CITY OF SOMERVILLE.

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IN COMMITTEE ON CLAIMS, Dec. 28, 1880.

*To his Honor the Mayor and the City Council :*

Your Committee on Claims present herewith the report of the city solicitor of the condition of the city's law business, Dec. 17, 1880, and of suits that have been settled during the year; and recommend that it be printed with the Annual Reports for the current year.

By order of the committee,

GEO. I. VINCENT, *Clerk.*

## REPORT OF THE CITY SOLICITOR.

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26 OLD STATE HOUSE, Dec. 17, 1880.

*To the Committee on Claims:*

GENTLEMEN, — In reply to your favor of yesterday, inquiring as to the present status of suits at law to which the city is a party, I beg leave to make the following report: —

There are at present upon my docket twenty-one pending cases. Not included in this number are the four park betterment cases of *Reed v. Sawin*, *Reed*, guardian for Fisk heirs, *Reed v. Massachusetts Brick Co.*, and *Klous et al.*, tried at the last March Term of the Superior Court in Middlesex, and which are still open, upon the question of the amount of costs which petitioners may be entitled to recover of the city.

During the past year, by trial, settlement, or otherwise, one hundred and twenty-five cases to which the city was party (plaintiff, defendant, or trustee) have been finally disposed of. This list includes one hundred and four trustee cases growing out of the West Somerville sewer case, in which I filed supplementary answers, and which were disposed of at the same time the sewer case was settled.

The following disposition of the cases named in your annual report of Jan. 3, 1880, has been made: —

1. *Catherine Fay v. Somerville*. Accident case, Somerville Avenue. Tried June 11 and 14, 1880, and verdict in favor of city.
2. *Benjamin Poole v. Somerville*. Reported to me as settled by the mayor.
3. *Catherine Roach v. Somerville*. Accident case, Somerville Avenue. Tried April 2 and 5, 1880, and verdict in favor of the city; and plaintiff excepts.
4. *Poor v. Somerville*. Park betterment assessment. Settled.

5. *Inwood v. Somerville*. Park betterment assessment. Settled.

6. *Bennett v. Somerville*. Park betterment assessment. To be tried this term.

7. *Richards v. Somerville*. Park betterment assessment. Settled.

8. *Strong v. Somerville*. Park betterment assessment. Entered neither party.

9. *Klous v. Somerville*. Winthrop Avenue betterment assessment. Settled.

10. *Holt v. Somerville*. Chauncey Avenue betterment assessment. Settled.

11. *Bennett v. Somerville*. Chauncey Avenue betterment assessment. To be tried this term.

12. *Bennett and Holt, for certiorari, v. Somerville*. Chauncey Avenue. Still pending, and referred to again hereafter in this report.

13. *Cambridge Gas Light Co. v. Somerville*. Still pending, and referred to again hereafter in this report.

14. *Davis v. Somerville*. Accident case, Willow Avenue. Argued March 3, 1880, on exceptions, in the Supreme Court, and since then decided in favor of the city.

15. *Stevens v. Somerville*. Accident case, Police Building. Case discontinued by plaintiff upon payment of her costs.

The twenty-one pending cases, with a brief statement explanatory of the present condition of each, are as follows:—

1. *Willard Dalrymple v. City of Somerville*. Petition before County Commissioners of Middlesex County for abatement of sewer assessment, Medford Street. This case was entered in 1875, and reasonable belief that it would be abandoned has deterred me from putting the city to any unnecessary expense in the matter. It will undoubtedly be disposed of at the coming January Term of the County Commissioners' Court.

2. *City of Somerville, for bridges, etc., v. Boston & Lowell Railroad*. This case has in part settled itself, by the erection during the present year of the new bridge over Medford Street. The suit will not, of course, be pressed for a hearing so long as the parties thereto are thus in the way of settlement.

3-8 include suits of Commissioner S. Stearns *et al.* before the County Commissioners of Middlesex County, for abatement of taxes for the year 1875. No order of notice in these cases has as yet been issued by the County Commissioners, until which time, of course, it is unnecessary for the city to take any steps in the matter. It is to be hoped that the long period of time intervening since the entry of these cases is indicative of a disposition upon the part of the petitioners not to pursue them.

9. City of Somerville in equity *v.* North. This is a case in the Supreme Judicial Court for Middlesex County. The attorney for the defendant has deceased during the year, but the case will be forthwith disposed of.

10 and 11. Clark Bennett *v.* Somerville. Two petitions for revision, by a jury, of the Public Park and the Chauncey Avenue betterment assessments. These cases were not tried at the last June Term of the Superior Court on account of Mr. Bennett's illness. They were not reached for trial at the September Term, next following, although set for trial, but are upon the present December Term docket, and will be tried when reached.

12. Clark Bennett, petitioner for certiorari to quash the Chauncey Avenue betterment assessments. It is not probable that Mr. Bennett will go to the expense of trying the two jury cases next above, if he intends to press this case in the Supreme Court to a hearing.

13. Cambridge Gas Light Co. *v.* City of Somerville. Suit for loss of gas and damage to gas pipe, during the construction of the West Somerville sewer. Trial of this case was begun in February last, when, by order of Court, it was referred to Theodore C. Hurd, Esq., as auditor, before whom it is now pending.

14. Roach *v.* City of Somerville. Action for personal injuries by falling on an alleged defective sidewalk on Somerville Avenue, Jan. 26, 1879. Case tried April 2 and 5, 1880, and verdict in favor of the city. The plaintiff excepted and has not yet abandoned her exceptions, which must be argued at the coming January Term of the Supreme Court at Boston, if argued at all.

15. Somerville *v.* Fitchburg Railroad, for grade crossing at Sacramento Street. The issue in this case was most ably and



thoroughly presented to the County Commissioners by 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 that street show a sufficient interest in the case to furnish the solicitors of those cities with the facts in the case which establish the necessity of such a crossing.

16. *Rouse v. Somerville*. Action for personal injuries near the Fitchburg Railroad bridge, on Washington Street, Aug. 9, 1879. This case has been upon the docket of each term of court during the past year, but has never been reached. It is now on the trial list, and will undoubtedly be tried during the present month.

17. *Sargent v. Boynton*. Suit by the collector of taxes to recover amount of defendant's personal taxes for the year 1878. This case is continued to await the action of North & Co. against Boynton in Suffolk Superior Court.

18 and 19. *Parker, trustee of Klous estate, in equity, v. Somerville, and Parker, trustee of same estate, for jury, v. Somerville*. These are two cases, the one in the Supreme Judicial Court for Middlesex County, and the other before the Middlesex County Commissioners, for land damages, and to prohibit the continuance of an alleged nuisance growing out of the construction of the Canal Street sewer. The cases were entered last summer, and I have entered my appearance therein in behalf of the city.

20. *Sanborn v. Somerville*. Action for damages from raising the grade of Washington Street, at the Fitchburg Railroad. The case is in order for trial at the present term.

21. *Squire v. Somerville*. Action for compensation for the alleged use of the plaintiff's box sewer, by the city, in connection with various public sewers of the city. The defendant has filed a plea in abatement, and will not answer to the merits until that plea is disposed of.

During the past year, a petition was filed by the trustees of the late Dr. Ayer's estate for abatement of the taxes of the year 1879 upon  $66\frac{1}{4}$  acres of land, situated between Willow Avenue and Cedar Street, and which taxes amounted to \$2,233.80. The case was tried



before the County Commissioners April 28 and May 20 and 21; ult., and was decided in favor of the city, the Commissioners refusing to make any abatement.

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, 1880 ; also the registration of marriages, births, and deaths for the period ending Dec. 31, 1880.

## RECEIPTS ENDING DEC. 31, 1880.

226 marriage certificates issued in 1880,	\$113 00
57 junk licenses issued in 1880,	114 00
201 swine “ “ “	201 00
24 goats “ “ “	24 00
12 grease “ “ “	24 00
37 liquor “ “ “	37 00
6 auctioneers' licenses issued in 1880,	12 00
Fees for licensing dogs in 1880,	98 20
Recording mortgages and assignments in 1880,	158 73
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	\$781 93
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All of which has been paid to the city treasurer, and his receipt taken for the same.

## MARRIAGES.

Number of intentions issued in 1880,	226
More than last year,	27
Marriages registered in 1880,	232

## NATIONALITY OF THOSE REGISTERED.

Both parties American,	158
Both parties foreign,	35
American groom and foreign bride,	14
Foreign groom and American bride,	22
Unknown,	3
	—— 232 couples.

First marriage of	423	persons.
Second “	38	“
Third “	3	“
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	464	= 232 couples.
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Oldest person married,	60	
Youngest “ “	16	

## BIRTHS.

Number of births registered in 1880,		618
More than last year,		69
Males,	318	
Females,	300	
Born of American parents,		274
“ foreign parents,		225
“ American male and foreign female,		53
“ foreign male and American female,		57
Unknown,		9
Number of cases of twins,	5	

## DEATHS.

Number of deaths in Somerville in 1880,				428
More than last year,				30
Ages.		Males.	Females.	Total.
Under 10 years,		105	76	181
Between 10 and 20,		12	7	19

Between 20 and 30,	19	21	40
“ 30 “ 40,	12	24	36
“ 40 “ 50,	12	25	37
“ 50 “ 60,	15	20	35
“ 60 “ 70,	7	17	24
“ 70 “ 80,	18	16	34
“ 80 “ 90,	6	14	20
“ 90 “ 100,		2	2
			428

Oldest person deceased, female, 92 years, 10 months, 22 days.

#### NATIONALITY.

Born in Somerville,	167
Other places in United States,	167
Of foreign birth,	91
Unknown,	3
	428

The number of deaths returned by the undertakers was 428, and occurred as follows:—

January,	42	July,	49
February,	23	August,	40
March,	33	September,	34
April,	45	October,	38
May,	29	November,	26
June,	24	December,	45
			428

For classification of diseases, see report of Board of Health.

CHARLES E. GILMAN,  
*City Clerk.*





# CITY GOVERNMENT FOR 1881.

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## MAYOR.

JOHN A. CUMMINGS.

Residence, 16 Wallace Street; office, City Hall

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## ALDERMEN.

MARTIN W. CARR, *President.*

### WARD ONE.

MALCOM B. COLE	.	.	.	.	Pearl Street.
ELIJAH C. CLARK	.	.	.	.	Ellsworth Street.

### WARD TWO.

ABIJAH B. GOOKIN	.	.	.	.	Grand View Avenue.
CALEB A. PAGE	.	.	.	.	Union Square.

### WARD THREE.

J. LELAND NORCROSS	.	.	.	.	Marshall Street.
GERSHOM T. BURNHAM	.	.	.	.	Sycamore Street.

### WARD FOUR.

ASA DURGIN	.	.	.	.	Broadway.
MARTIN W. CARR	.	.	.	.	Craigie Street.

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## COMMON COUNCIL.

MARK F. BURNS, *President.*

### WARD ONE.

MARK F. BURNS	.	.	.	.	Perkins Street.
JAMES RAWSON	.	.	.	.	Arlington Street.
HIRAM A. PRATT	.	.	.	.	Pearl Street.
LEVI F. S. DAVIS	.	.	.	.	Cross Street.

## WARD TWO.

CLARENCE P. WESTON . . . .	Warren Avenue.
J. FRANK WELLINGTON . . . .	Pleasant Avenue.
MARTIN BINNEY . . . .	Dane Street.
DENNIS F. FLYNN . . . .	Dane Street.

## WARD THREE.

THOMAS R. ROULSTONE . . . .	Bonair Street.
WILLIAM T. HILL . . . .	Sycamore Street.
ALBION A. PERRY . . . .	Evergreen Avenue.
STEPHEN N. LOTHROP . . . .	Broadway.

## WARD FOUR.

JOSEPH A. CHABOT . . . .	Park Street.
WILLIAM E. WELD . . . .	Harvard Street.
WILLIAM E. SHEDD . . . .	Morrison Street.
ARTHUR HODGES . . . .	Mead Street.

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**JOINT STANDING COMMITTEES FOR 1881.**

ACCOUNTS. — Aldermen Cole, Durgin; Councilmen Weld, Perry, Rawson.

BURIAL GROUNDS. — Aldermen Durgin, Gookin; Councilmen Flynn, Pratt, Lothrop.

CLAIMS. — His Honor the Mayor, *ex officio*; the President of the Common Council, *ex officio*; Alderman Burnham; Councilmen Chabot, Weston.

FINANCE. — His Honor the Mayor, *ex officio*; the President of the Common Council, *ex officio*; Aldermen Cole, Carr; Councilmen Shedd, Weston, Hill, Rawson.

FUEL AND STREET LIGHTS. — Aldermen Burnham, Clark; Councilmen Weld, Davis, Lothrop.

FIRE DEPARTMENT. — Aldermen Norcross, Page; Councilmen Chabot, Davis, Flynn.

HIGHWAYS. — Aldermen Durgin, Gookin; Councilmen Pratt, Roulstone, Wellington.

ORDINANCES. — Aldermen Carr, Cole ; Councilmen Chabot, Pratt, Perry.

PUBLIC PROPERTY. — Aldermen Clark, Burnham ; Councilmen Shedd, Wellington, Perry.

PRINTING. — Alderman Cole ; Councilmen Hodges, Binney.

SOLDIERS' RELIEF. — Aldermen Page, Norcross ; Councilmen Hill, Binney, Hodges.

WATER. — Aldermen Gookin, Norcross ; the President of the Common Council, *ex officio* ; Councilmen Hodges, Roulstone.

#### STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

SEWERS. — Aldermen Carr, Gookin, Norcross.

ELECTIONS. — Aldermen Page, Burnham.

ENROLLED ORDINANCES. — Aldermen Clark, Norcross.

LICENSES. — Aldermen Durgin, Page.

POLICE. — His Honor the Mayor, *ex officio* ; Aldermen Clark, Carr.

STATE AID. — Aldermen Gookin, Carr, Cole, Burnham.

#### STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Flynn, Rawson, Lothrop.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Roulstone, Weld, Weston.

#### CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN ; Office, City Hall.

#### CITY TREASURER AND COLLECTOR OF TAXES.

AARON SARGENT ; Office, City Hall.

#### CITY MESSENGER.

JAIRUS MANN ; Office, City Hall.

**CITY ENGINEER.**

GEORGE A. KIMBALL ; Office, City Hall.

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**CITY SOLICITOR.**

SAMUEL C. DARLING.

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**CITY PHYSICIAN.**

JOHN F. COUCH, M. D., Bow Street.

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**CLERK OF COMMON COUNCIL.**

DOUGLAS FRAZAR.

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**CITY AUDITOR.**

DOUGLAS FRAZAR ; Office, City Hall.

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**CHIEF OF POLICE.**

MELVILLE C. PARKHURST, Police Station, Bow Street.

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**SUPERINTENDENT OF STREETS.**

JOHN P. PRICHARD, House, 10 Cutter Street ; Office, City Hall.

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**CHIEF ENGINEER OF FIRE DEPARTMENT.**

JAMES R. HOPKINS ; Office, Steamer House, Highland Avenue,  
corner Walnut Street.

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**ASSISTANT ENGINEER OF FIRE DEPARTMENT.**

NATHANIEL C. BARKER . . . Ellsworth Street.

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**SUPERINTENDENT OF SCHOOLS.**

JOSHUA H. DAVIS . . . Myrtle Street.





**ASSISTANT LIBRARIAN.**

MISS LIZZIE A. STEVENS.

**PRINCIPAL ASSESSORS.**

THOMAS CUNNINGHAM, *Chairman* . . . . . Oak Street.  
 FRANK G. WILLIAMS . . . . . Albion Street.  
 STILLMAN H. LIBBY . . . . . Elm Street.  
 GEORGE I. VINCENT, *Clerk*; Office, City Hall.

**ASSISTANT ASSESSORS.**

GEORGE SMITH, Ward One . . . . . Myrtle Street  
 B. F. THOMPSON, Ward Two . . . . . Summit Avenue.  
 R. A. MELVIN, Ward Three . . . . . Bonair Street.  
 S. H. HOLLAND, Ward Four . . . . . Broadway.

**OVERSEERS OF POOR.**

JOHN A. CUMMINGS, *Mayor, Chairman ex officio.*  
 MARK F. BURNS, *Prest. Common Council,* “

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.
H. B. RUNEY.	SAMUEL R. DOW.
NEWELL F. CASWELL.	C. C. CAVANAGH.
CHAS. C. FOLSOM.	ANSEL LEWIS.
WM. H. BRINE.	JOSEPH J. GILES.

JOHN S. ADOO.

**FIELD DRIVERS.**

CHARLES C. FOLSOM.	A. L. STAPLES.
I. S. CAMPBELL.	JUDSON W. OLIVER.
JOHN E. FULLER.	S. C. ROLLINS.
M. H. KINSLEY.	HOWARD LOWELL.

**FENCE VIEWERS.**

JOHN C. MAGOUN.      DAVID A. SANBORN.      WARREN POLLARD.

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**POUND KEEPER.**

CHARLES A. SMALL.

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**SURVEYORS OF WOOD, BARK, AND LUMBER.**

ANSEL LEWIS.                      SAMUEL T. LITTLEFIELD.

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**SURVEYOR OF STONE WORK.**

JAMES R. HOPKINS.

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**SURVEYOR OF STONE, BRICK, AND PLASTER WORK.**

A. M. SIBLEY.

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**SURVEYOR OF MECHANICS' WORK.**

CHARLES D. ELLIOT.

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**PUBLIC WEIGHER.**

D. W. DANFORTH.      PATRICK O'BRIEN.      JOHN C. COUSINS.

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**UNDERTAKERS.**

HORACE B. RUNEY.      A. L. SANBORN.      PATRICK H. RAFFERTY.  
 PATRICK RAFFERTY.      H. D. RUNEY.      WM. P. FLAHERTY.

## POLICE DEPARTMENT.

M. C. PARKHURST, *Chief*.R. R. Perry, *Captain*.S. R. Dow, *Sergeant*.C. C. Folsom, *Sergeant*.

N. F. Caswell.

George W. Bean.

C. C. Cavanagh.

S. H. Whitcomb.

S. C. Rollins.

P. W. Skinner.

John E. Fuller.

S. A. Brown.

Howard Lowell.

John Hafford.

J. H. McGarr.

Ivan Loughton.

F. W. Slade.

M. H. Kinsley.

A. L. Staples.

I. S. Campbell.

Albert Fisk.

Edward McGarr.

J. W. Oliver.

J. B. Young.

M. C. Parkhurst, *Lock-up Keeper*.









