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CITY OF MANCHESTER

• Annual • Reports •



FOR THE YEAR

1888

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FORTY-THIRD ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF MANCHESTER

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1888,

TOGETHER WITH

OTHER ANNUAL REPORTS AND PAPERS RELATING TO
THE AFFAIRS OF THE CITY.



MANCHESTER, N. H.:

PRINTED BY JOHN B. CLARKE.

1889.

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CITY OF MANCHESTER.

IN BOARD OF COMMON COUNCIL.

AN ORDER to print the Forty-Third Annual Report of the Receipts and Expenditures of the City of Manchester :

ORDERED, If the Board of Mayor and Aldermen concur, that the Joint Standing Committee on Finance be, and they hereby are, authorized to procure, for the use of the inhabitants of said city, the printing of the Forty-Third Annual Report of the Receipts and Expenditures of the City of Manchester, including the Reports of the Joint Standing Committee on Finance, the School Board and Superintendent of Schools, Superintendent of Water-works, Water Commissioners, Engineer of Fire Department, City Marshal, Overseers of the Poor, Trustees, Librarian, and Treasurer of City Library, Committee on Cemeteries, Joint Standing Committee on City Farm, City Physician, City Solicitor, and City Engineer, the expense thereof to be charged to the Appropriation for Printing and Stationery.

IN BOARD OF COMMON COUNCIL. December 28, 1888.

Passed.

JOHN M. KENDALL, *President.*

IN BOARD OF MAYOR AND ALDERMEN. December 28, 1888.

Passed in concurrence.

JOHN HOSLEY, *Mayor.*

MANCHESTER
CITY GOVERNMENT,
1888.

MAYOR.

HON. JOHN HOSLEY.

CITY CLERK.

NATHAN P. KIDDER.

CITY TREASURER.

SYLVANUS B. PUTNAM.

COLLECTOR OF TAXES.

GEORGE E. MORRILL.

CITY SOLICITOR.

EDWIN F. JONES.

CITY MESSENGER.

JOHN A. BARKER.

CITY PHYSICIAN.

JAMES M. COLLITY.

CITY ENGINEER.

WINFRED H. BENNETT.

PRESIDENT OF COMMON COUNCIL.

EDWARD L. KIMBALL.*

JOHN M. KENDALL.†

CLERK OF COMMON COUNCIL.

PELEG D. HARRISON.

SUPERINTENDENT OF WATER-WORKS.

CHARLES K. WALKER.

CLERK OF WATER-WORKS.

ARTHUR E. STEARNS.

* Resigned.

† Elected to fill vacancy.

ALDERMEN.

Ward 1. — George W. Cheney.

Ward 2. — Orrin E. Kimball.

Ward 3. — William S. Shannon.

Ward 4. — Horace D. Gordon.

Ward 5. — Leonard P. Reynolds.

Ward 6. — Charles W. Eager.

Ward 7. — Frank A. Dockham.

Ward 8. — Charles W. Quimby.

MEMBERS OF COMMON COUNCIL.

WARD 1.

George W. Bacon.
Charles D. Sumner.
E. Parker French.

WARD 2.

Thomas Hamilton.
Charles A. Carpenter.
George S. Clough.

WARD 3.

Edward L. Kimball.
John A. Bartlett.
Frank M. Forsaith.

WARD 4.

John M. Crawford.
W. Byron Stearns.
George Blanchet.

WARD 5.

John F. Bohan.
David E. Guiney.
Thomas P. Riley.

WARD 6.

John M. Kendall.
Joseph Quirin.
Milton A. Abbott.

WARD 7.

John F. Frost.
Clarence M. Woodbury.
Guy F. Whitten.

WARD 8.

Joseph Lariviere.
Edward Weber.
Benjamin Freeman.

JOINT STANDING COMMITTEES.

On Finance.—The Mayor and Alderman Kimball; Messrs. Stearus, Forsaith, and Sumner.

On Accounts.—Aldermen Eager and Quimby; Messrs. Forsaith, Bohan, and Frost. (Meet Wednesday succeeding the 24th of each month. All bills must be left at the city clerk's office, properly approved, not later than the 24th of each month.)

On Claims.—Aldermen Dockham and Kimball; Messrs. Sumner, Woodbury, and Whitten. (Meet third Friday in each month.)

On Streets.—Aldermen Reynolds and Shannon; Messrs. Bartlett, Carpenter, and Kendall.

On Sewers and Drains.—Aldermen Shannon and Reynolds; Messrs. Carpenter, Kendall, and Bartlett.

On Lighting Streets.—Aldermen Cheney and Gordon; Messrs. Woodbury, Freeman, and Stearns.

On Lands and Buildings.—Aldermen Quimby and Gordon; Messrs. Frost, Guiney, and Abbott.

On Fire Department.—Aldermen Kimball and Cheney; Messrs. Bacon, Hamilton, and Blanchet.

On Commons and Cemeteries.—Aldermen Gordon and Quimby; Messrs. Quirin, Bacon, and French.

On Public Instruction.—Aldermen Eager and Dockham; Messrs. French, Clough, and Weber.

On Water-Works.—Aldermen Gordon and Eager; Messrs. Crawford, Lariviere, and Abbott.

On City Farm.—Aldermen Cheney and Reynolds; Messrs. Fox, Clough, and Whitten.

On House of Correction.—Aldermen Dockham and Shannon; Messrs. Weber, Fox, and Quirin.

On Military Affairs.—Aldermen Shannon and Eager; Messrs. Lariviere, Crawford, and Guiney.

STANDING COMMITTEES IN BOARD OF ALDERMEN.

On Enrollment. — Aldermen Gordon and Shannon.

On Bills on Second Reading. — Aldermen Reynolds and Dockham.

On Market. — Aldermen Eager and Gordon.

On Marshal's Account. — Aldermen Shannon and Cheney.

On Licenses. — Aldermen Kimball and Eager.

On Setting Trees. — Aldermen Cheney and Quimby.

On Special Police. — Aldermen Dockham and Reynolds.

STANDING COMMITTEES IN BOARD OF COMMON COUNCIL.

On Election Returns. — Messrs. Hamilton, Blanchet, and Abbott.

On Bills on Second Reading. — Messrs. Stearns, Frost, and Bohan.

On Enrollment. — Messrs. Fox, Clough, and Forsaith.

POLICE DEPARTMENT.

Judge of Police Court.

Nathan P. Hunt.

Associate Justice of Police Court. ♀

Isaac L. Heath.

Clerk.

John C. Bickford.

City Marshal.

Melvin J. Jenkins.

Assistant Marshal.

Horatio W. Longa.

 SCHOOL COMMITTEE.
John Hosley, *ex-officio* Chairman.James E. Dodge, *Clerk*.

WARD 1.

Charles H. Manning.
John G. Hutchinson.

WARD 5.

Thomas F. Collins.
John J. Holland.

WARD 2.

Benjamin C. Dean.
William C. Clarke.

WARD 6.

William H. Huse.
Abial C. Flanders.

WARD 3.

Nathan P. Hunt.
James E. Dodge.

WARD 7.

Ed. B. Woodbury.
Marshall P. Hall.

WARD 4.

Samuel D. Lord.
Stephen W. Clarke.

WARD 8.

Luther C. Baldwin.
George W. Nutter.Edward L. Kimball, *ex officio*.John M. Kendall, *ex officio*.

 SUPERINTENDENT OF PUBLIC INSTRUCTION.

William E. Buck.

ASSESSORS.

Charles H. Brown.	John Ryan.
John E. Stearns.	George H. Dudley.
David O. Furnald.	Ira W. Stearns.
Harrison D. Lord.	Frank E. McKean.

INSPECTORS OF CHECK-LISTS.

George C. Kemp.	Edward J. Lawler.
Benjamin L. Hartshorn.	Isaac Whittemore.
David O. Furnald.	Joseph A. Foster.
Harrison D. Lord.	Henry F. Stone.

OVERSEERS OF THE POOR.

John Hosley, *ex-officio* Chairman.
 William H. Maxwell, *Clerk*.

William H. Maxwell.	Frank J. Morrison.
Thomas L. Quimby.	Charles Francis.
James Sutcliffe.	William Marshall.
Horace Gordon.	Horatio Fradd.

(Meet third Wednesday of each month.)

BOARD OF HEALTH.

George C. Hoitt, *Chairman*.
 Joseph B. Sawyer, *Clerk*.

Joseph B. Sawyer.	William M. Parsons.
George C. Hoitt.	

FIRE DEPARTMENT.

Thomas W. Lane, *Chief Engineer.*Fred. S. Bean, *Clerk.*

James F. Pherson.

Orrin A. Manning.

Fred. S. Bean.

Eugene S. Whitney.

WATER COMMISSIONERS.

Alpheus Gay, *Chairman.*James A. Weston, *Clerk.*

Henry Chandler.

Alpheus Gay.

James A. Weston.

Andrew C. Wallace.

Joseph F. Kennard.

Edwin H. Hobbs.

John Hosley, *ex officio.*

TRUSTEES OF CITY LIBRARY.

Nathan P. Hunt.

Moody Currier.

Benjamin C. Dean.

Lucien B. Clough.

Daniel Clark.

Herman F. Straw.

Isaac W. Smith.

John Hosley, *ex officio.*Edward L. Kimball, *ex officio.*John M. Kendall, *ex officio.*

HIGHWAY SURVEYORS.

Dist.

1. Orison Webber.

2. William Sanborn.

3. Frank A. Emerson.

4. Isaac Whittemore.

5. Mark E. Harvey.

6. Albert J. Peaslee.

Dist.

7. George M. Bean.

8. John Proctor.

9. Nelson W. Paige.

10. Charles O. Phelps.

11. Frank D. Hanscom.

12. John H. Willey.

13. William Campbell.

SEALER OF WEIGHTS AND MEASURES.

Edwin W. Blake.

TRUSTEES OF CEMETERIES.

Sylvanus B. Putnam, *Clerk*.

H. H. Huse, Joseph L. Stevens, for four years.
 James A. Weston, John E. Stearns, for three years.
 George C. Gilmore, Bushrod W. Hill, for two years.
 D. O. Furnald, Hiram Stearns, for one year.

SUB-TRUSTEES OF CEMETERIES.

Valley. — Alderman Quimby; Messrs. Quirin, Gilmore, Hill, and Furnald.

Pine Grove. — Alderman Gordon; Messrs. Bacon, Huse, Whitman, and Weston.

Amoskeag. — E. Parker French; Messrs. Hiram Stearns and J. E. Stearns.

TRUSTEES OF CEMETERY FUNDS.

Hon. James A. Weston, *Chairman*.
 Hon. Person C. Cheney.
 Hon. John Hosley, *ex officio*.

INSPECTORS.

Milk. — H. F. W. Little.

Buildings. — Thomas W. Lane.

Oil. — John P. Cronin and Edward J. Powers.

WARD OFFICERS.

Moderators.

- Ward 1. — Marcellus Gould.
 Ward 2. — George M. True.
 Ward 3. — William A. Carpenter.
 Ward 4. — John C. Bickford.
 Ward 5. — Hugh McDonough.
 Ward 6. — George Holbrook.
 Ward 7. — Timothy W. Challis.
 Ward 8. — George W. Goffe.

Ward Clerks.

- Ward 1. — Michael Herbert.
 Ward 2. — Henry J. Matthews.
 Ward 3. — Jesse B. Pattee.
 Ward 4. — A. L. F. Geoffroy.
 Ward 5. — John J. Sherry.
 Ward 6. — Charles H. Harvey.
 Ward 7. — Sanfield McDonald.
 Ward 8. — Gillis Stark.

Selectmen.

WARD 1.

Henry P. Hunter.
 Oliver C. Mombteau.
 Edward L. Carpenter.

WARD 2.

William Smith.
 Everett J. Anthes.
 George W. Varnum.

WARD 3.

David Thayer.
 Charles Atherton.
 George C. Lord.

WARD 4.

George B. Forsaith.
 John P. Cronin.
 Clarence R. Merrill.

WARD 5.

Jeremiah J. Hayes.
William Morrissey.
Patrick McManus.

WARD 7.

David W. Anderson.
Sylvester Drew.
John F. Frost.

WARD 6.

George H. Benton.
Charles G. Dodge.
Lyman Dickey.

WARD 8.

Abel M. Keniston.
Henry Hebert.
Napoleon Richard.



MAYOR HOSLEY'S
VALEDICTORY ADDRESS.

VALEDICTORY ADDRESS.

Gentlemen of the City Councils:

Our official relations with the government of our city are about to terminate, and others selected from among our fellow citizens will soon fill the places we have occupied during the past two years. As we meet together here for the last time it is both natural and fitting that we should take a retrospective view of the path we have trodden in our endeavors to promote the public welfare, and revive the memory of the difficulties we have encountered, the obstacles we have overcome, the criticisms of unfriendly cynics, the cheerful co-operation and encouragement of many of the wisest and best of our fellow citizens, our sympathies with one another, and the work we have accomplished.

FINANCE.

During the past two years the sum of \$35,000 has been paid towards liquidating the funded debt of the city, and the sum of \$25,000 in payment of a temporary loan made prior to January 1, 1887. The finances of the city are in a very sound and healthy condition, and the forthcoming report of the city treasurer will show that the net indebtedness of the city has been largely diminished during the past two years.

STREETS.

More than two and one half miles of streets have been built during the last two years; 7,496 yards of cobble paving and nearly three miles of cobble edging have been laid; 25,186 yards of macadamizing have been done on the streets; upwards of seven miles of streets have been graveled. The streets which have been macadamized have given universal satisfaction. During these two years the Manchester Horse Railroad has extended its tracks three and one fourth miles through our streets, and to put the streets through which the road has been built on a proper grade, as established by the city, has cost several thousand dollars.

SCHOOLS.

The public schools of the city have been well managed. The system of instruction has been kept up to a high standard of excellence, and the teachers have performed their duty to their pupils wisely and well. It is a credit to our citizens that they have always been willing to do all in their power to give the youth of the city an education and training that will fit them to perform their duty in a manner which will promote their highest happiness.

FIRE DEPARTMENT.

In this department the sum of \$5,000 was expended for the completion of the engine-house in West Manchester. The sum of \$20,000 has been paid for erecting and equipping the Stark engine-house on Webster street. Two steam fire-engines and one combination hose hook-and-ladder carriage, 6,000 feet of the best grade fabric hose, and ten horses have been purchased. The Independent hose-house at Amoskeag has been thoroughly

repaired and a new hose-tower erected. The new engine-house and ward-room which has been erected on Lake avenue is in process of completion. When this building is finished it will be a great ornament to that portion of the city. This structure will take the place of the dilapidated wooden building which experience has proven to be unsafe for use as a ward-room. When we consider the excellence of our fire department, our splendid hydrant system, and our ample water supply, and remember that the Amoskeag Company, with its independent water supply, can manage any ordinary fire which occurs upon its own premises, it would seem that the rates of insurance upon the property in the city might be greatly reduced. The fire department is in excellent condition, and fully sustains its high reputation for its completeness, its efficiency, its discipline, and the high standing of its officers and members.

BRIDGES.

A new bridge has been built over the Cohas brook, in the Harvey district, to replace the old decayed one in that section.

A new arched stone bridge has been built over Cemetery brook, at the junction of Belmont street and the Old Falls road, and extensive repairs have been made upon Granite and McGregor bridges, as well as upon many of the other bridges of the city.

SEWERS.

The sewerage system of our city has been greatly extended, and a large amount of money has been laid out in this direction within the past two years. The total length of the sewers put in is four and one fourth miles. The excavations for some of these sewers were through

ledges, and necessarily very expensive. Levels have been taken upon about 5,000 acres of land in the city for an improved system of sewerage. Maps and plans have been drawn and submitted to E. W. Bowditch, a very eminent consulting engineer of Boston. Mr. Bowditch has examined the maps and plans and made a decision upon all the important points involved in the matter, and where changes were necessary they were made upon the city plan.

COMMONS.

The commons, which are one of the chief ornaments of the city, are in excellent condition. A spray fountain and a drinking-fountain have been put in at Park common, concrete walks have been constructed, trees have been set out, and this will soon become a very attractive locality. The unsightly pond on Merrimack square has been filled with about 7,000 cubic yards of earth, broad concrete avenues have been put in, one of which extends from the northwest to the southeast corner; by this arrangement many pedestrians who reside in that quarter are greatly accommodated.

CEMETERIES.

Great improvements have been made in the Valley Cemetery, the most important of which is an admirably constructed city receiving tomb, which is of sufficient dimensions to contain the remains of a very large number of persons. The driveways along the winding stream have been much improved.

At Pine Grove Cemetery a new store and tool house has been erected, many avenues have been laid out and graded, and a large amount of money has been expended in making other improvements.

CITY HALL.

Extensive improvements and repairs have been made upon the City Hall building. The outside has been painted, new floors have been laid, and the stores have been remodeled and repaired at a large expense to the city.

WATER-WORKS.

The water-works are in most excellent condition. Within the past two years the city has paid for land on the shore of Massabesic lake, on account of flowage, the sum of \$6,635. Within the same space of time there have been laid 19,120 feet, or three and five-eighths miles of cast-iron pipe for the accommodation of new water-takers, and twenty-two new hydrants have been set. New water-wheels have been put in at the pumping-station by the Risdon Wheel Company at a cost of \$5,627. A brick addition has been made to the pumping-station, a boiler has been put in, and the whole building has been piped, so that it can now be heated by steam, the expense of these improvements amounting to \$3,000. The vast benefits which have followed the introduction of water into the city were hardly dreamed of by the people who resided in Manchester twenty years ago. The improvements I have briefly referred to are only a small portion of those which have been made in the various departments throughout the city.

ELLIOT HOSPITAL.

Through the benevolence of the late Mrs. Elizabeth Elliot a large sum of money was left for the purpose of founding a public hospital in our city. A board of trustees was appointed, which, a few months since, purchased

a tract of land consisting of twenty-seven acres, and an elegant building for hospital purposes is now in process of erection and it is expected will be completed and ready for the reception of patients by the middle of June next. This hospital will not be in any respect a private speculation, but a public charity, and is to be devoted solely to aiding and comforting the sick and helpless of all classes of people in our city.

Though the funds left by Mrs. Elliott are sufficient for the purchase of the grounds, the erection and furnishing of the buildings, and the partial support of the institution, other funds will soon be needed for the erection of other buildings and for the accommodation of the many patients who will doubtless in the near future be glad to find an asylum here.

The endowed free-bed system prevails in many cities, and by this means the sick and indigent are provided with hospital accommodations free. It is hoped that this system may be adopted in our city.

I would recommend that the city councils make an appropriation each year for a certain number of free beds for the accommodation of people who are suffering from sickness and are too poor to pay the expense of hospital treatment, these beds to be under the control of the trustees representing the city and designated City Free Beds.

It is also hoped that our great manufacturing and railroad corporations, which have always manifested a commendable interest in the welfare of their operatives, will appropriate a liberal sum for the purpose of free beds in this institution. Our churches and benevolent associations will find an opportunity to extend a helping hand to those unfortunates who come under their notice by aiding this great charity.

CONCLUSION.

And now, gentlemen, before we separate, I desire to extend to you, one and all, my most sincere thanks for your uniform kindness and courtesy to me personally, and I assure you that I fully appreciate the constancy of your zeal in the support of all those measures which seemed to us the best calculated to promote the order and good government of the city, and to bring prosperity and happiness to all the people. I am sure that we shall all rejoice in the success of those who are to assume the responsibilities of the offices we vacate, as we rejoice in the many evidences about us of the wisdom and foresight of those who preceded us. Many of those eminent citizens who have aided in shaping our public affairs during the past forty years have passed on to a higher life, and we are fast following in their footsteps; but the city survives, and will doubtless continue to advance from one degree of prosperity and importance to another for many generations to come. As we march along in the journey of life, and recall the memory of these scenes, we shall have the satisfaction of knowing that we have been in a position to do something in the way of contributing to its greatness and renown.

MAYOR VARNEY'S
INAUGURAL ADDRESS.

INAUGURAL ADDRESS.

Gentlemen of the City Councils:

Having been chosen by the suffrages of our fellow-citizens to take the management of the affairs of our city for the two ensuing years, and having appeared and taken the oath required by the city charter, faithfully to discharge the duties of the several offices to which we have been elected, we are met now to assume, in a formal manner, the responsibilities which have been laid upon us.

It becomes us not to forget that we are the servants of the people, who have placed the conduct of their public business in our hands. Let us see to it that their confidence was not misplaced.

Entering for the first time upon the duties and undertaking the responsibilities of the office of mayor of our growing and prosperous city, I realize the importance of the position in which I am placed, and the demand that will be made of me for the best service I can render this community. Trusting that a generous public will criticize only to enlighten and advise, I enter with confidence upon the discharge of my duties.

But, gentlemen, we are to share these responsibilities between us. Therefore we should endeavor, as far as possible, to act in harmony.

I am not familiar enough with the wants of the several departments of the municipal administration to make

many recommendations at the present time, but will call your attention to such matters as will require your action in the near future.

FINANCES.

One of the important duties of the City Councils is that pertaining to the management of the city finances.

I am unable to give you the exact amount of the indebtedness of the city, as the treasurer makes up his accounts to-day.

The funded debt, January 1, 1888, was . . .	\$971,700
There was paid during the year 1888 . . .	36,200
Leaving the funded debt January 1, 1889 . . .	935,500
Cemetery bonds	8,300
Making a total of	943,800

None of these bonds mature until July 1, 1890.

STREETS AND HIGHWAYS.

The importance of maintaining well-graded streets in the city proper, and highways in the suburbs, cannot be overestimated. Our citizens who ride for health or pleasure, or who do business on our streets, demand that the streets and highways shall be kept in good condition, and are willing to be taxed for that purpose, provided they can feel assured that their money will be judiciously expended. The men employed to work on our streets should be able and willing to do a fair day's work for a fair day's pay. The city has all the machinery necessary for macadamizing the streets, and good progress has been made in that direction during the past year. We should make our appropriation for this department large enough to further the continuance of the work.

Our bridges are in fair condition. McGregor bridge will require to be replanked early in the spring. With this exception, no great outlay will be required this year.

SEWERS.

A plan of our system of sewerage has been completed, embracing the whole city proper. Hereafter all sewers put in will be in accordance with this plan. As the city is extending its borders in all directions, a large amount of new sewerage will be called for this year. There remain about nine miles of the old sewer pipe, part of which will require to be renewed this year. A due regard for the health of our city requires that this part of our duty should not be neglected.

FIRE DEPARTMENT.

We, in common with our citizens generally, take great pride in our fire department. I think it safe to say that no city in New England possesses a better equipment for fire purposes, or a more efficient body of men to handle that equipment, than Manchester. We should aim to do all in our power to help them maintain the high standard they have established. We have now all the engines and engine-houses that will be required for several years, therefore no great outlay will be called for, aside from what is necessary for repairs.

OUR PUBLIC SCHOOLS.

We have shared with other citizens the just pride taken in our public schools.

It now becomes our duty to provide for their proper support. The direction of this important interest has wisely been committed to a special board, who, like our-

selves, are chosen by the people, to whom they also are accountable. So long as this department shall continue to be managed as wisely and economically as it has been in the past we may with confidence grant all reasonable requests for the needs of the schools, feeling assured that no more of the public funds will be used than shall be found necessary for their support.

Especially should we provide, as far as lies in our power, everything necessary for guarding the health of the children attending our schools. In this connection I will say it has been suggested to me that the four-room school building on School street in West Manchester, where there is an attendance of nearly two hundred pupils, is unfit for occupancy by reason of defective sanitary appliances. It will become our duty to give careful consideration to any recommendation of the school board in this particular case, or in other cases of a like nature.

CITY FARM.

Our city farm, under its able superintendent and committee of last year, has shown very good results, a detailed report of which will soon be published. Mr. Willey, the present superintendent, informs me that he does not desire a re-election. This is a very important position to fill, and great care should be exercised in the selection of his successor.

CITY LIBRARY.

The needs of the city library will require thoughtful consideration and a liberal appropriation. As a part of our educational system this institution should receive as generous aid and support as we so willingly bestow upon our schools. I am informed by the librarian that there

are no less than ten thousand volumes upon the shelves of which no catalogue has been made. The last printed catalogue was issued in 1878, and the seven thousand card-holders can obtain these books only by taxing the memory of the librarian, or when that fails, as it often of necessity must fail, by the tedious process of looking through a written list.

The report of the trustees and librarian will soon be laid before you, and will probably contain valuable suggestions.

ELLIOT HOSPITAL.

It seems now well assured that the Elliot Hospital will be opened for the admission of patients early in the fall of the present year.

In this connection I would suggest that much suffering might frequently be prevented, and possibly lives saved, by the establishment of an "accident room," properly equipped, in some one of the city buildings near the business center, where persons seriously injured might receive prompt medical or surgical treatment before being removed to the hospital. In consideration of the generous accommodations now provided for our fire department, would it not be practicable and wise to set apart and equip a room at the Vine-street station for this purpose, and also to provide an ambulance to be kept there ready at all times to respond to a call at a moment's notice?

CEMETERIES.

The committees having in charge the care of our cemeteries have shown a commendable interest in the work assigned them. Both the Valley and Pine Grove cemeteries have been much improved during the last year.

In order to continue the improvements as contemplated

by the committees, an appropriation about the same in amount as that of last year will be required, besides the sum of five hundred dollars to complete the new tomb at the Valley Cemetery.

POLICE.

In the present condition of society all cities and large towns are obliged to maintain a police force. The more perfect the discipline of this organization, the better will the lives and property of the citizens be protected.

The men selected for police duty should be of good character, and able to keep their tempers in the most trying circumstances. Officers should not be in haste to make arrests when peace and order can be maintained without so doing. Personal observation leads me to believe that in many cases the desired result might be attained without going so far as to bring offending parties before the court.

None but well-known citizens of good character should be selected for duty as special police.

TEMPERANCE.

The temperance question is one of vital importance to the peace and prosperity of our city. How to control the sale and use of alcoholic liquors as a beverage is a question which agitates our community with more than usual force at the present time. It is, moreover, a question with regard to which people may honestly differ.

What is known as the "prohibitory law" has been on our statute books for more than twenty-five years, but only occasionally has any attempt been made to enforce it. So long as this is the law of the State, it should be enforced by our regular police with the same earnestness and fidelity which they display in the enforcement of all

other laws. At the same time, I am personally in favor of a "high license" law, which in many of our sister States has proved to be far easier of enforcement than a prohibitory law, and which has, in my judgment, particularly in cities and large towns containing a mixed population, done very much to diminish the number of open saloons, and control the sale of intoxicants.

CONCLUSION.

In conclusion, gentlemen, permit me again to remind you of the importance of the trust committed to us by our fellow citizens. Let us at the outset resolve that we will carefully examine all matters that are brought before us to be acted upon. While we should avoid all extravagance, we should not allow any needed improvement to be neglected.

I think I need not speak of the importance of your prompt attendance at all our meetings, or of the necessity that our deliberations should be conducted in a spirit of courtesy and harmony. Only by adhering to these requisite principles shall we so wisely and successfully manage the affairs of this city that when our terms of office shall expire, the citizens shall have no just cause of complaint against us.

It is gratifying on an occasion like this to be able to say that after forty-two years of municipal government no taint of corruption or defalcation has ever been charged against any official of this city. May it be a long time before this record is broken!

REPORT

OF THE

BOARD OF WATER COMMISSIONERS.

BOARD OF WATER COMMISSIONERS.
1889.

DAVID B. VARNEY, Mayor, *ex officio*.

ALPHEUS GAY, *President*, term expires January, 1893.

JAMES A. WESTON, *Clerk*, term expires January, 1891.

JOSEPH F. KENNARD, term expires January, 1890.

HENRY CHANDLER, term expires January, 1892.

A. C. WALLACE, term expires January, 1894.

EDWIN H. HOBBS, term expires January, 1895.

OFFICERS.

CHARLES K. WALKER, *Superintendent*.

ARTHUR E. STEARNS, *Registrar*.

CHARLES C. COLE, *Engineer at Pumping Station*.

R E P O R T

OF THE

BOARD OF WATER COMMISSIONERS.

To the City Councils of the City of Manchester :

GENTLEMEN, — The Board of Water Commissioners have the honor to present herewith their seventeenth annual report for the year ending December 31, 1888, together with the report of the superintendent covering the same period of time, to which reference is made for the details of the service connected with this department.

The receipts and expenditures for the year are as follows :

Balance unexpended December 31, 1887	. \$23,499 62
Receipts from all sources . . . . .	. 85,643 82
Total	<u>\$109,143 44</u>
Appropriated to pay interest	\$36,000 00
Expended on construction	22,733 31
Repairs and running expenses	14,283 39
Total expenditure	<u>\$73,016 70</u>
Balance unexpended . . . . .	. \$36,126 74

The increase in gross receipts over the year 1887 is \$5,125.65, being about the same rate of increase as was made the year preceding, and all being based on the same

water-rates. In view of this gradual increase in the gross income, and in accordance with the policy heretofore laid down, — to keep the charges for water as low as are afforded by any well-conducted system of water-works in the country, — your board have reduced the rates charged for fire-hydrants from fifty dollars to forty dollars per annum each, the original rate being sixty dollars. Other reductions will follow whenever a due regard for the demands for renewals, repairs, and general maintenance would seem to warrant such a course. It will be the aim of your commissioners to keep the charges as equitable as the nature of the case will admit.

It is believed that the water-works as a whole were never in a more satisfactory condition, and consequently no very large outlay will be required the present season, unless it should be deemed wise to take advantage of the very low price of iron and purchase more than a year's supply of pipe, in anticipation of higher prices. This matter will receive early consideration.

Respectfully submitted.

ALPHEUS GAY, *President*,
 JOHN HOSLEY, *Mayor, ex officio*,
 A. C. WALLACE,
 E. H. HOBBS,
 HENRY CHANDLER,
 JOSEPH F. KENNARD,
 JAMES A. WESTON, *Clerk*,
Board of Water Commissioners.

January 1, 1889.

SUPERINTENDENT'S REPORT.

To the Board of Water Commissioners :

In accordance with the ordinances of the city, I have the honor to present herewith my annual report, relative to the work under my charge and the general condition of this department, for the year ending December 31, 1888.

Another rainy season has kept the water in the lake higher than the dam the past year. The lowest point reached was eight inches above the dam, and the highest thirty-four inches above. Slight repairs have been made on the dam; 125 perch of long, heavy stone having been laid over the apron for the water to fall upon at the higher stages, at an expense of \$600. A building has been erected over the gates at the head of the canal, which cost \$250.

PUMPING STATION.

The wheels and pumps have worked satisfactorily. A boiler-house and coal-shed have been built at the north side of the station, and steam put in for heating the pump-room and dwelling-house. This addition to the pumping station was built by Head & Dowst, under contract, for \$1,306. The heating apparatus was also put in by contract, the work being awarded to Thos. A. Lane, for \$1,000. The whole expense, including grading and concreting, was about \$2,700.

The following table shows the quantity of water pumped:

RECORD OF PUMPING IN 1888.

MONTHS.	Kind of pump.	No. hours' work.	Average strokes per minute.	Total number strokes pumped.	No. gallons each pump.	Total number gallons each month.	Daily average.
January.....	Davidson.	306 h. 55 m.	22.97	421,042	64,198,384	64,198,384	2,070,915
February.....	Davidson.	276 " 20 "	22.85	378,871	57,588,392	57,588,392	1,827,272
"	R. D. Wood.	31 " 40 "	22.61	43,076	5,696,032	63,284,424	2,182,221
March.....	Davidson.	263 " 30 "	22.83	382,927	58,204,904	58,204,904	1,847,000
"	R. D. Wood.	13 " 50 "	21.85	18,143	2,394,876	60,599,880	1,954,885
April.....	Davidson.	141 " 35 "	22.34	189,801	28,849,752	28,849,752	901,618
"	R. D. Wood.	223 " "	22.02	302,220	19,946,520	48,796,272	1,626,542
May.....	R. D. Wood.	530 " 20 "	22.50	726,982	47,980,812	47,980,812	1,515,510
June.....	Davidson.	271 " "	22.81	726,982	56,655,264	56,655,264	1,888,508
July.....	Davidson.	300 " 25 "	22.54	372,732	56,655,264	61,774,928	1,992,740
August.....	Davidson.	294 " 15 "	22.17	406,414	61,774,928	61,774,928	1,992,740
September.....	Davidson.	294 " 15 "	22.17	391,319	59,480,488	59,480,488	1,918,725
October.....	R. D. Wood.	580 " "	21.90	762,212	50,305,992	50,305,992	1,676,866
November.....	R. D. Wood.	548 " 10 "	22.17	729,018	48,115,188	48,115,188	1,552,102
"	Davidson.	231 " 30 "	22.10	185,457	28,194,024	28,194,024	901,618
December.....	R. D. Wood.	285 " "	22.38	307,974	20,326,284	48,520,308	1,617,343
"	Davidson.	285 " "	22.38	382,755	58,178,760	58,178,760	1,876,412
Totals and averages.....	.....	4,445 h. 30 m.	22.44	6,000,943	667,890,700	667,890,700	1,822,726

The foregoing table shows that there has been a steady increase of the daily average pumped in the last five years. In the year 1883 the average was 1,211,278 gallons, in 1888, 1,822,726 gallons, an increase of about 600,000 gallons. If the season just closed had been as dry as we frequently have, the daily average would probably have been 2,000,000 or more. This is not a bad showing, as it gives, on the basis of 40,000 inhabitants, forty-five gallons for each person per day; but it must be taken into consideration that bursts have taken a large quantity of water out of the reservoir.

Your attention is called to the fact that in January and February, the coldest months of the season, we pump the most water. This shows that a large quantity is wasted in these two months. There have not been any bursts on the force or supply main, and but few leaks.

The reservoir has required no repairs the past year. At the gate-house a gauge was put up to indicate the height of the water. A telegraph wire was run to the pumping station, and so connected that by means of an electric bell an alarm was sounded when the reservoir was full.

This was planned by Mr. C. C. Cole, who has charge of the pumping station, and it proves very convenient. It relieves the man in charge, when pumping nights, of any anxiety about running the reservoir over, which would waste the water, although no damage could be done.

DISTRIBUTION PIPE.

Began to extend the water-pipe in May, and finished laying in December. Pipes were laid in thirty-three streets by odd jobs, varying from 100 to 1,000 feet in each, as the circumstances required, and from four to

twelve inches in size, according to the plan. The following are the streets where it was laid :

Appleton, Arlington, Ash, Ashland, Bath, Beech, Beauport, Blaine, Central, Chestnut, Clarke, Conant, Cypress, Dubuque, Goffstown Lane, Langdon, Liberty, Mast road, North, Nutt road, Parker, Pearl, Pine, Riddle, Spruce, Sullivan, Taylor, Union, Welch, First, Second, West, and Wilson. Amount laid, 11,351 feet — a little over two miles, — at an expense of \$8,736. There have been twenty-two bursts where we have taken out cement and put in cast-iron pipe. The amount relaid this year is 959 feet.

There have been three places where water has run into the cellars from bursts in the cement pipe, and where the owners of the houses claim damage. Two of these claims have not been adjusted.

Last winter the ground froze at an unusual depth. A number of service pipes froze, one that was laid five feet deep. Several hydrants, where they had leaked or had been used, were found frozen ; but they did not cause any trouble when there was a fire.

The superintendent has never seen or heard of any hydrant that would always open easily in very cold weather.

PIPES, GATES, AND HYDRANTS LAID IN 1888.

STREETS.	Pipe laid in feet.					Gates set.			Hydrants.	LOCATION.
	4 in.	6 in.	8 in.	10 in.	12 in.	4 in.	6 in.	8 in.		
Appleton		17					1			To Union.
Arlington.....		56					1			To Ashland.
Ash	144									Harrison, n. (1½ in. gate)
Ashland				574						Bridge to Pearl.
Bath		192					1		1	To River.
Beech			620					1		Shasta — south.
Beaumont		15								Corner Conant.
Blaine.....		477							1	Eastward.
Central.....		680					1		1	Canal to Franklin.
Chestnut.....		174				1	1			Clarke — north.
Clark.....		27								To Chestnut.
Conant.....		125								West to Beaumont.
Cypress.....		516					1		1	Southward.
Dover						1				Corner Douglas.
Dubuque.....		356					1			Amory — south.
Dubuque.....		476							1	Wayne to Putnam.
Goffstown lane..	506					1				Road to Black brook.
Langdon.....		192								Westward.
Laurel.....							1			Corner Pine.
Liberty.....		567					1		1	North — north.
Mast, north.....		300								Westward.
Merrimack.....							1			Corner Pine.
North.....				80						To Liberty.
Nutt road.....			800					1		To Pine.
Parker.....	156					1				Winter — north.
Pearl.....		72					2			Ashland.
Pine.....			380						1	Nutt road — north.
Riddle.....		565					1		1	To Mast road.
Spruce.....		225					1			East of Wilson.
Sullivan.....	168									Beaumont — west.
Taylor.....		890					2			B. A. Stearns' res. south
Union.....		475								Appleton — north.
Union.....		300					1			
Welch, north.....	384									Elm, west (1½ in. gate).
Welch, south.....	292	10				1				No. 813 — north.
West.....		300				1	1			Douglas to Conant.
Wilson.....				240						Lake to Spruce.
	1,650	7,007	1,800	814	80	6	18	2	8	Total, 11,351 feet.

Number miles of pipe laid, 1888	2.15
“ gates set “	26
“ hydrants set .“	8

LOCATION OF HYDRANTS SET, 1888.

Bath, cor. River.

Blaine, cor. Second.

Central, cor. Franklin.

Cypress, cor. south end of street.

Dubuque, cor. Putnam.

Liberty, cor. North.

Pine, opposite T. Shea's.

Riddle, near Nesmith's residence.

The following places are where cement-lined pipe was taken out and cast-iron laid instead:

STREETS.	Length in feet.			LOCATION.
	4 in.	6 in.	8 in.	
Auburn.....		8	.....	Opposite No. 54.
Amherst.....		8	.....	East of Pine.
Amherst.....		8	.....	Corner Elm.
Cedar.....		20	.....	East of Pine.
Central.....		3	.....	Corner Pine.
Central.....		8	.....	West of Pine.
Chestnut.....	8		.....	Corner Central.
Chestnut.....		8	.....	Corner High.
Clinton.....		7	.....	Near engine-house.
Dover.....	18		.....	Corner Douglas.
Douglas.....		192	.....	Main to Dover.
Granite.....		16	.....	Opposite No. 236.
Manchester.....		8	.....	Opposite Dealy block.
Pine.....			8	Corner Hanover.
Pine.....			8	South of Central.
Second.....		18	.....	Near Walker.
School.....		8	.....	East of Main.
School.....		398	.....	East of Main.
Spruce.....		8	.....	East of Union.
Spruce.....		8	.....	West of Chestnut.
Spruce.....		8	.....
State.....		8	.....	South of Central.
Washington.....	7		.....	Corner Elm.
Winter.....		8	.....	East of Parker.
Winter.....		200	.....	East of Parker.
	33	950	16	Total, 999 feet.

DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1888.

SIZE.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20 inch diameter.....	20,560.00 ft.	5,146.00 ft.	8
14 inch diameter.....	6,825.00 "	7,598.00 "	11
12 inch diameter.....	7,983.00 "	11,709.00 "	20
10 inch diameter.....	4,829.75 "	10,748.00 "	14
8 inch diameter.....	12,539.00 "	11,472.00 "	34
6 inch diameter.....	80,639.50 "	75,978.00 "	269
4 inch diameter.....	7,957.00 "	8,263.00 "	35
	141,343.25 ft.	130,914.00 ft.	391

26.773 miles of cement-lined pipe.

24.791 miles of cast-iron pipe.

51.564, total miles of pipe.

391 gates.

426 hydrants.

7 air valves.

METERS.

The number of meters set during the year is one hundred and six.

Total number of meters in use, eight hundred and forty-two.

The number of applications for water to date has been thirty-two hundred and forty.

SERVICE PIPES.

One hundred and forty-three (143) service pipes have been laid this year, as follows :

140	1	inch	diameter	.	.	.	.	3,543.8	feet.
2	2	"	"	.	.	.	.	50.0	"
1	2½	"	"	.	.	.	.	57.0	"

Total number of feet laid, 1888 . 3,650.8 feet.

1	$\frac{1}{2}$	inch service	has been	changed to	1	inch.
2	$\frac{3}{4}$	“	“	have been	“	1
1	$\frac{3}{4}$	“	“	has been	“	$1\frac{1}{4}$
1	$\frac{3}{4}$	“	“	“	“	$1\frac{1}{2}$
1	1	“	“	“	“	$1\frac{1}{2}$
1	1	“	“	“	“	$1\frac{1}{4}$

15.7	feet	$\frac{1}{2}$	taken out and	14.7	feet	1	inch laid.
49.5	“	$\frac{3}{4}$	“	49.5	“	1	“
21.5	“	$\frac{3}{4}$	“	21.5	“	$1\frac{1}{4}$	“
21.0	“	$\frac{3}{4}$	“	21.0	“	$1\frac{1}{2}$	“
19.4	“	1	“	19.4	“	$1\frac{1}{4}$	“
33.0	“	1	“	33.0	“	$1\frac{1}{2}$	“

Thirty hundred and eighty-seven (3,087) service pipes have been laid to date, as follows:

39	$\frac{1}{2}$	inch diameter	.	.	.	845.0	feet.
1774	$\frac{3}{4}$	“	“	.	.	46,640.3	“
1192	1	“	“	.	.	30,592.9	“
23	$1\frac{1}{4}$	“	“	.	.	1,293.5	“
8	$1\frac{1}{2}$	“	“	.	.	225.5	“
42	2	“	“	.	.	993.4	“
1	$2\frac{1}{2}$	“	“	.	.	57.0	“
1	3	“	“	.	.	16.8	“
7	4	“	“	.	.	233.0	“

Total length of service pipe . . . 80,897.4 feet.

Number of miles of service pipe, 15.32.

The income from the sale of water for 1888 has been as follows:

Received for water by rate	.	.	\$54,864	78
“	“	meter	.	29,838
“	for building purposes	.	543	80
“	from fines	.	149	80
				<hr/>
				\$85,397
				20

Received for labor and pipe sold	\$227 33	
“ of G. G. Griffin	1 00	
“ George P. Clark	2 00	
“ R. D. Wood & Co. (gear)	16 29	
		\$246 62
Total received		\$85,643 82

Abatements, \$252.73.

Current expenses for 1888	\$14,283 39	
Construction expenses for 1888	22,733 31	
Appropriated for interest	36,000 00	
		\$73,016.70
Receipts over expenditures		\$12,627 12

Amount on hand January 1, 1888	\$23,499 62	
Amount received, 1888	85,643 82	
		\$109,143 44
Amount expended, 1888	73,016 70	
		\$36,126 74

CLASSIFICATION OF ACCOUNTS FOR 1888.

Superintendence and repairs	\$10,133 18	
Stationery and printing	132 78	
Office and incidental expenses	320 99	
Pumping expenses	2,453 44	
Repairs to dam, canal, and reser- voir	1,113 89	
Repairs to building	129 11	
		\$14,283 39
Current expenses for 1888		\$14,283 39
Service pipes	\$1,551 55	
Distribution pipes	11,865 79	

Fire-hydrants and valves . . .	\$740 84
Meter and fixtures . . .	2,068 23
Pump-house and building . . .	2,625 90
Land	3,635 00
Grading	246 00
	<hr/>
Construction expense, 1888	\$22,733 31
	<hr/>
Total expended, 1888 . . .	\$37,016 70
Land and water rights . . .	\$48,717 45
Dam, canal, penstock, and races .	101,399 16
Pumping machinery, pump-house, and buildings	106,869 10
Distributing reservoir and fixtures	71,542 36
Force and supply main . . .	89,769 02
Distribution pipes	347,679 43
Fire-hydrants and valves . . .	38,916 97
Tools and fixtures	10,649 35
Boarding and store houses . . .	919 36
Roads and culverts	2,193 49
Supplies	550 39
Engineering	22,176 19
Livery and traveling expenses .	2,856 64
Legal expenses	563 79
Grading and fencing	13,515 23
Service pipes	44,441 96
Meters and fixtures	21,247 55
	<hr/>
Total construction account to Dec. 31, 1888	\$924,007 44

Current expenses:

Superintendence, collecting, and repairs	\$111,094 54
Stationery, printing, etc.	5,088 44

Office and incidental expenses	\$16,495 13
Pumping expenses and repairs	32,009 46
Repairs to dam, canal races, and reservoir	3,633 65
Repairs to buildings	1,321 41

Current expenses to Dec.

31, 1888	\$169,642 63
Interest	\$40,678 51
Highway expenditures	14,000 53
	<u>\$54,679 04</u>

Total amount of bills ap-
proved to date

\$1,148,329 11

Interest, discount, and labor per-
formed on highways, trans.,
and tools and materials sold

\$61,444 31

Current expenses to Dec. 31, 1888

155,359 24
\$216,803 55

Total cost, exclusive of in-
terest and current ex-
penses

\$931,525 56

Interest and discount to Dec. 31,
1887

\$524,961 51

Interest for 1888

33,772 00

Total interest and discount
to Dec. 31, 1888

\$558,733 51

Amount paid toward interest to
Dec. 31, 1887

\$377,000 00

Amount used by city in 1888

36,000 00

Total

\$413,000 00

The following amounts have been paid over to the city treasurer, and credited to the water-works :

	1872, supplies and materials sold . . .	\$573 61
	1873, supplies and materials sold . . .	177 07
	accrued interest on water bonds sold .	193 26
	1873, accrued interest on state bonds sold	146 00
	water rents . . .	1,920 53
	1874, supplies and materials sold . . .	607 89
March 12, 1874,	highway expenditures, trans. from water account .	14,000 53,
March 17, 1874,	interest and discount, trans. from water account .	12,347 25
Sept. 1, 1874,	interest and discount trans. from water account .	22,361 74
	1874, water and hydrant rent, etc. . . .	30,233 54
Dec. 29, 1874,	interest transferred . . .	4,566 25
Dec. 18, 1875,	one anvil sold . . .	15 00
Sept. 25, 1875,	engine, crusher, and material sold	2,089 45
	1875, water and hydrant rent, etc. . . .	27,119 15
May 20, 1876,	derrick sold . . .	125 00
May 20, 1876,	rent of derrick . . .	24 00

1875, water and hydrant		
rent, etc. . . .	\$38,879	47
1877, water and hydrant		
rent, etc. . . .	43,823	30
1878, water and hydrant		
rent, etc. . . .	48,873	26
old plow sold . . .	1	00
1879, derrick sold . . .	75	00
1879, water and hydrant		
rent, etc. . . .	53,068	17
1880, water and hydrant		
rent, etc. . . .	57,395	25
sale of grass . . .	10	00
level, transit, etc . . .	250	00
1881, water and hydrant		
rent, etc. . . .	60,154	62
sale of grass . . .	10	00
sale of derrick . . .	50	00
received of G. G. Griffin . . .	1	00
1882, water and hydrant		
rent, etc. . . .	67,403	76
received of G. G. Griffin . . .	1	00
1882, received of James Baldwin & Co . . .	175	00
received from the sale of grass . . .	10	00
received from Good- hue & Birnie . . .	24	37
1882, received for old plank . . .	1	00
received for use of derrick . . .	15	00

1883, received of G. G.	
Griffin	\$1 00
received from sale of	
grass	20 00
water and hydrant	
rent, etc. . . .	73,437 20
1884, received of G. G.	
Griffin	1 00
received for stone . .	5 00
received from sale of	
grass	10 00
1884, received from pipe	
sold and labor	616 20
received for water	
and hydrant rent .	74,947 88
1885, received from G.	
G. Griffin	1 00
B. P. Kimball, for	
grass	10 00
labor and pipe sold . .	13 45
received for water	
and hydrant rent .	80,379 67
1886, received from G.	
G. Griffin	1 00
B. P. Kimball, for	
grass	5 00
for wood	37 80
labor and pipe	282 43
water and hydrant	
rent	74,803 76
1887, received for	
labor and pipe	768 86
received of G. G.	
Griffin	1 00

1887, received of C. C. Cole	\$0 50
received of B. P. Kimball; for grass	10 00
received of A. J. Crombie, for grass	5 00
received of A. Good- win, for poles	10 00
received of W. G. Brown	25 00
received of T. H. Risdon & Co., for freight	15 11
received for water and hydrant rent	79,682 70
1888, received for labor and pipe	227 33
received of G. G. Griffin	1 00
received of Geo. P. Clark	2 00
received R. D. Wood & Co. (gear)	16 29
received for water and hydrant rent	85,397 20
Total received for water, etc.	\$957,455 85
Amount appropriated to date	640,000 00
Amount received to date	\$1,597,455 85
Amount of bills approved to date	1,148,329 11
	\$449,126 74
Amount transferred toward interest	413,000 00
Balance on hand Dec. 31, 1888	\$36,126 74

CHARLES K. WALKER,
Superintendent.

AUDITOR'S REPORT.

I hereby certify that I have examined the accounts of the Manchester Water-Works for the year 1888, and find the same correctly cast and properly vouched.

GEORGE E. MORRILL,

Auditor.

Manchester, N. H., Jan. 6, 1889.

USES FOR WHICH WATER IS SUPPLIED.

PUBLIC BUILDINGS.

1 Jail.	4 Cemeteries.
16 Churches.	1 Orphanage.
1 Court-house.	1 Post-office.
6 Hose companies.	1 City Library.
4 Fire-engines.	5 Banks.
1 Hook-and-ladder.	3 Hotels.
2 Opera-houses.	1 Masonic Hall.
1 Convent.	1 Odd Fellows' Hall.
1 City Hospital.	1 Holly-Tree Inn.
1 Old Ladies' Home.	3 Halls.
1 Soldiers' Monument.	22 Schoolhouses.
1 Turner Hall.	1 Battery Building.
3 Fountains.	1 Skating Rink.

MANUFACTURING ESTABLISHMENTS.

1 Silver-plating.	2 Electric light.
2 Iron foundries.	3 Sash and blind shops.
2 Dyehouses.	1 Brewery.
4 Machine-shops.	1 Shoe-shop.
6 Clothing manufactories.	1 Gas-works.
6 Harness-shops.	4 Slaughter-houses.
1 Brush-shop.	1 Soap manufactory.
3 Carriage-shops.	2 Needle manufactories.
6 Cigar.	4 Beer-bottling.
1 Brass and copper foundry.	1 Book-bindery.
1 Locomotive works.	1 Paper-mill.

MARKETS.

7 Fish.	2 Meat (wholesale).
9 Meat and fish.	

STABLES.

- | | |
|-------------------|--------------|
| 15 Livery. | 688 Private. |
| 1 Horse-railroad. | |

OFFICES.

- | | |
|--------------|--------------|
| 11 Dentists. | 10 Printing. |
| 1 Telephone. | 1 Gas. |
| 1 Telegraph. | 4 Coal. |
| 2 Express. | |

SHOPS.

- | | |
|----------------|--------------------------------------|
| 27 Barber. | 2 Curryng. |
| 2 Wheelwright. | 6 Plumber and gas and
water pipe. |
| 9 Blacksmith. | 8 Paint. |
| 5 Carpenter. | 1 Gunsmith. |
| 1 Tinsmith. | |

STORES.

- | | |
|---------------------------|-----------------------------|
| 4 Auction. | 80 Grocery. |
| 23 Drug. | 5 Meal. |
| 9 Jewelry. | 3 Hardware. |
| 1 Fur. | 30 Boot and shoe. |
| 2 House-furnishing goods. | 7 Stove. |
| 20 Fancy goods. | 15 Gents' furnishing goods. |
| 1 Wholesale paper. | 10 Book. |
| 5 Wholesale produce. | 1 Leather and shoe-finders. |
| 15 Dry goods. | 3 Music. |
| 12 Candy. | 3 Upholstery. |
| 1 Cloak. | 6 Undertakers. |
| 15 Millinery. | 5 Sewing-machine. |
| 2 Tea. | 1 Feather-cleaner. |
| 5 Furniture. | 1 Rubber. |

SALOONS.

11 Dining.	62 Liquor.
6 Billiard.	

MISCELLANEOUS.

6 Club-rooms.	4 Greenhouses.
2 Bleacheries.	2 Band rooms.
8 Laundries.	13 Bakeries.
3 Ice-houses.	1 Waste.
9 Photographers.	

WATER FIXTURES, ETC.

7102 Families.	1714 Sill-cocks.
111 Boarding-houses.	426 Fire-hydrants.
8798 Faucets.	33 Stand-pipes.
1285 Wash-bowls.	20 Watering-troughs.
1888 Water-closets.	4 Drinking-fountains.
179 Wash-tubs.	1665 Horses.
586 Bath-tubs.	79 Cattle.
135 Urinals.	

MATERIAL ON HAND.

PIPE.

474 feet 20 in.	476 feet 8 in.
935 feet 14 in.	4400 feet 6 in.
1200 feet 12 in.	1476 feet 4 in.
1332 feet 10 in.	

GATES.

2 4 in.	2 8 in.
8 6 in.	1 10 in.

WHOLE SLEEVES.

4	14 in.	11	6 in.
8	12 in.	8	4 in.
1	10 in.		

CLAMP SLEEVES.

7	20 in.	19	8 in.
11	14 in.	21	6 in.
10	12 in.	21	4 in.
33	10 in.		

PLUGS.

2	14 in.	5	6 in.
1	12 in.	2	4 in.
5	10 in.		

BRANCHES.

2	double 6 on 12.	2	single 6 on 14.
2	double 6 on 10.	1	single 12 on 14.
2	double 6 on 8.	2	single 8 on 8.
3	double 6 on 6.	3	single 6 on 8.
		10	single 6 on 6.

REDUCERS.

1	14 to 12.	2	8 to 6.
1	6 to 4.		

BENDS.

2	10 in. 1-8.	2	6 in. 1-4.
2	6 in. S S.	2	6 in. 1-16.
1	14 in. 1-8.	1	6 in. 1-8.
1	12 in. 1-8.		

SERVICE PIPE.

$1\frac{1}{2}$ in. 318 feet.

$1\frac{1}{4}$ in. 324 feet.

1 in. 3200 feet.

$2\frac{1}{2}$ in. 88 feet.

2 in. 344 feet.

$\frac{3}{4}$ in. 770 feet.

35 pigs of lead.

REPORT
OF THE
CITY ENGINEER.

CITY ENGINEER'S DEPARTMENT.

1888.

CITY ENGINEER.

WINFRED H. BENNETT.

ASSISTANTS.

HARRIE M. YOUNG,

GEORGE W. WALES,

JOHN J. McDONOUGH.

TEMPORARY ASSISTANTS.

CHARLES H. BARTLETT,

CHARLES W. BICKFORD,

EDWARD H. DOHERTY.

The last three named received their salary from special appropriations.

REPORT OF THE CITY ENGINEER.

To His Honor the Mayor, and Gentlemen of the City Councils :

SIRS, — I have the honor of presenting my third annual report, being the tenth annual report of the work in the City Engineer's office, and the several highway districts of the city of Manchester, for the year ending December 31, 1888.

Expenses of the office for the year 1888 :

For salary of city engineer	\$1,000 00	
salary of three assistants	1,296 99	
supplies for the office	92 43	
repairing	34 70	
express	1 75	
stakes	31 70	
horse-shoeing and repairs of wagon and harness	21 85	
bill of 1887	33 28	
horse-car fares	5 70	
street numbers	18 45	
printing reports	24 95	
	<hr/>	
Total		\$2,561 80
Appropriation		2,500 00
		<hr/>
Amount overdrawn		\$61 80

Expenses for soldiers' monument :

For water	\$50 00
gas	42
	<hr/>
Total	\$50 42

The amount of work done in the office during the year is as follows :

Number of orders for surveys, street lines and grades	527
Number of orders for sewer and paving grades	126
Number of orders for profile levels	119
	<hr/>
Total number of orders	772

Levels for profiles for establishing grades, 188,348 feet, equal to 35.67 miles.

These profiles, having three lines of levels on each street, make a total distance actually

leveled of	565,044 feet.
Levels for sewer profiles	7,710 "
Levels for other center profiles	53,762 "
Levels in Pine Grove cemetery	1,100 "
Levels in Valley cemetery	800 "
Levels for accidents	700 "
Other levels	34,090 "
	<hr/>
Total levels taken	663,206 feet.

Equal to 125.61 miles.

Surveys of streets and street lines	54,285 feet.
Surveys in Pine Grove cemetery	8,160 "
Surveys in Valley cemetery	6,400 "
Surveys for accidents	600 "

Surveys for street numbers	16,922 feet.
Other surveys	8,600 "

Total surveys made 94,967 feet.
Equal to 17.96 miles.

Street lines marked on ground	59,832 feet.
Lines of lots and avenues, Pine Grove cemetery	10,880 "
Lines of lots and avenues, Valley cemetery	2,300 "
Lines of land sold	2,000 "

Total length lines marked on ground 75,012 feet.
Equal to 14.21 miles.

Grades set for sidewalks	17,551 feet.
Grades set for centers	8,304 "
Grades set for gutters	9,409 "
Grades set for horse-railroad tracks	200 "
Grades set in Pine Grove cemetery	3,000 "
Grades set in Valley cemetery	1,600 "
Grades set for curb	9,639 "
Grades set for sewers	13,154 "
Other grades	2,256 "

Total length of grades set 65,113 feet.
Equal to 12.33 miles.

BATTERS SET.

Lake-avenue engine-house.
Elliot Hospital building.
Valley cemetery, city tomb.
City Hall, public comfort.
Belmont-street culvert, at Cemetery brook.
Grove-street culvert, at Cemetery brook.
Elm street, retaining wall.

Old lots relaid in Valley cemetery	9
Old lots relaid in Pine Grove cemetery	40
New lots laid out in Pine Grove cemetery	142
	<hr/>
Total cemetery lots laid out	191
Street numbers assigned and put on	171
Street numbers replated	125
	<hr/>
Total numbers put on	296

This year, as in previous years, the city engineer has investigated and made surveys in all cases where suits were liable to be brought against the city. Cases investigated and reported to the Committee on Claims, 14.

PLANS AND PROFILES MADE FOR SIDEWALK GRADES.

Bridge street, from Russell to Hall street. Two plans.
Chestnut street, from Brook to Webster street. Two plans.

Elm street, from Short to Baker street. Three plans.
Hanover street, from Elm to Chestnut street.

Mast street, from Main street to west line of Eugene Brigham's land.

Total plans and profiles, 9.

SEWER PLANS AND PROFILES.

Amherst street, from Pine to Union street.

Amherst south back street, from Elm east back to Pine street.

Cedar street, from Union to Lincoln street. Two plans.

Clarke street, from Elm to Union street.

Lincoln street, from Cedar to Spruce street.

Monmouth street, from McGregor west back to Main street.

River street, and westerly across private land.
 Second street, from Granite to Ferry street.
 Total sewer plans and profiles, 9.

NUMBERING PLANS.

Beacon street, Spruce to Hanover street. Two plans.
 Bowman street, Mast to A street. Two plans.
 Central street, Elm to Canal street.
 Chestnut street, Appleton to Ray street. Two plans.
 Clarke street, Elm to Union street. Two plans.
 Clinton street, Main to West street.
 Douglas street, River to Quincy street. Three plans.
 Dover street, Clinton to Douglas street.
 Ferry street, River to Main street. Two plans.
 Fourth street, School street to N. W. R. R.
 Franklin street, Canal to Market street. Four plans.
 Granite street, Elm to Quincy street. Six plans.
 Laurel street, Highland street westerly.
 Main street, Granite to A street. Four plans.
 River street, Douglas street to N. W. R. R. Three
 plans.
 Second street, Granite street to N. W. R. R. Two
 plans.
 Walker street, River to Main street. Two plans.
 West street, Parker to Douglas street.
 West Hancock street, Main street to Merrimack river.
 Three plans.
 Total numbering plans, 43.

MISCELLANEOUS PLANS.

Amherst road, land of John C. Head, copy.
 Church street, plan of saloon.
 Concord street, at Dutton street, land of Chas. N.
 Heald, copy.

Concord street, at Dutton street, plan of lots, copy.
Two plans.

Concord street, land of Jane Young, copy.

Concord street, at Wilson, land of Samuel Bartlett,
copy.

Dean avenue, location of Mrs. Quigley's accident. Two
plans.

Hanover street, land of Dr. Bell, copy.

Lake avenue, Massabesic, Spruce, and Belmont streets,
square bounded by.

Lowell and Wilson streets, land of John Hall, copy.

Lowell street, land of Jason Weston, copy.

Lowell street, land of Wallace, copy.

Lowell street, land of Wilson and Weston, and Mrs.
Henry Clough, copy.

Park square, plan and section of fountain.

Pine Grove cemetery, plan of extension.

Pine Grove cemetery, plan and elevation of store-
house.

Pine Grove cemetery, profile of Acacia avenue.

Pine Grove cemetery, profile of Beech avenue.

Pine Grove cemetery, profile of Maple avenue.

Pine Grove cemetery, profile of Oakland avenue.

Pine Grove cemetery, profile of Willow avenue.

Pine Grove cemetery, profile of fence.

Public comfort, plan, section, and elevation.

Riddle estate, West Manchester, plan of lots.

Union, Bridge, Hall, and Manchester streets, square
bounded by.

Valley cemetery, plan of Frederick Smyth's lot.

Welch avenue, land of Chas. D. Welch, copy.

Total miscellaneous plans, 28.

WORKING PLANS NOT RETAINED IN OFFICE.

- Amherst road, Mast road southerly. Profile.
- Arlington street, Warren to Ashland street. Center profile.
- Ashland street, Bridge to Pearl street. Profile.
- Beech street, sketch and notes for paving.
- Beech street, Merrimack to Hanover street. Profile.
- Belmont-street extension, location of culvert.
- Cedar street, Union to Lincoln street. Center profile.
- Central street, Elm to Canal street. Numbering plan.
- Central street, Union to Beech street. Profile.
- City stable, design for. Eleven plans.
- Cypress street, Lake avenue to Massabesic street. Center profile.
- Electric-light locations, for Weston Company.
- Electric-light locations, for Brush Company.
- Electric-light locations, for Thompson-Houston Company.
- Electric-light locations, by committee.
- Elliot Hospital land, cross section.
- Elm street, east side, Merrimack to Manchester street. Profile.
- Ferry street, River to Main street. Profile.
- High south back street, Pine to Union street. Center profile.
- Lake avenue, plan of lots belonging to John Hosley.
- Lake avenue, engine-house. Twenty-four plans.
- Lowell street, Walnut to Maple street. Profile.
- Manchester south back street, Elm east back to Chestnut street. Profile.
- Merrimack street, Elm to Chestnut street. Profile.
- Merrimack square. Profile of diagonal walk.
- Pine street, Salmon to Salmon south back street. Center profile.

Pine street, Concord to Bridge street. Profile.

Pine Grove cemetery, lot No. 1471½.

Public comfort. Two plans.

Salmon south back street, Pine street easterly. Center profile.

Spruce street, Union to Massabesic street. Center profile.

Summer street, Wilson to Massabesic street.

Union street, Laurel to Manchester street. Profile.

Union street, Sagamore to Webster street. Profile.

Valley cemetery, city tomb. Eleven plans.

Valley cemetery, city tomb, design for grill.

Valley cemetery, city tomb, design for doors.

Valley cemetery, design for bridge.

Towlesville, comprising Amherst, Ashland, Concord, Maple, Dutton, Derry, Porter, and Chester streets, equaling eight plans.

East Manchester, comprising Massabesic, Belmont, Weston, Cypress, Jewett, Spruce, Summer, and Valley streets and Old Falls road, equaling nine plans.

Total working plans, 99.

TRACINGS.

Amherst south back street sewer, for government building superintendent.

Amoskeag Manufacturing Company's land and mill privileges in 1835.

Belmont street, culvert.

City of Manchester, improved sewerage. Three plans.

City farm, location of proposed public park.

City stable, design for. Eleven plans.

Cypress and Weston streets, for county commissioners.

Eastern section of city.

Elliot Hospital land, cross section, for architect.

Lake avenue, engine-house. Forty-seven plans.

Lake avenue, land of John Hosley.

Land of S. N. Bell, West Manchester.

Merrimack river, Amoskeag Falls to Hooksett Falls.

Merrimack river, Granite bridge to Cromwell's Falls.

Nutt road and Elm street.

Pine Grove cemetery, lots on Birch avenue.

Pine Grove cemetery, lot No. 1471½, for treasurer.

Pine Grove cemetery, lots for treasurer.

Pine Grove cemetery, lots in new section.

Pine Grove cemetery, lots in northwest corner, for superintendent.

Pine Grove cemetery, lots in eastern section, for superintendent.

Police station, stonework, for Bodwell suit.

Public comfort, for contractor.

Riddle estate, West Manchester, plan of lots.

Valley cemetery, city tomb. Three plans.

Valley cemetery, city tomb, design for grill.

Valley cemetery, city tomb, design for doors.

Weston street. Center profile.

Total tracings, 88.

BLUE PRINTS.

Belmont street, culvert.

City stable. Twenty-two plans.

Lake avenue, engine-house. Eighty-four plans.

Valley cemetery, city tomb. Two plans.

Total blue prints, 109.

MAPS.

One large map showing entire city.

Two large contour maps of city, for improved system of sewerage.

These maps have a superficial area of 146 square feet.

In connection with the contour maps, 256 profiles of streets have been made, covering a distance of seventy-one miles.

Twelve plans of streets laid out, and one plan of road discontinued, have been made in the City Clerk's book of records.

Total of all plans made, 656.

In connection with the year's work two large maps of the city have been started, showing the sewerage system as adopted.

Plans of all new highways laid out to December 31, 1888, have been made in the City Clerk's book of records.

The index and catalogue of plans have been brought up to December 31, 1888; the index to level books to December 31, 1888; and the index to transmit books to December 22, 1888.

GRADES ESTABLISHED.

The following grades have been established during the year :

Amory street, from Beauport to Dubuque street	540 feet.
Amherst street, from Maple to Ashland street	1,128 "
Beacon street, from Spruce to Hanover street	1,510 "
Beauport street, from Amory to Kelly street	. 650 "
Beauport street, from Conant to Sullivan street	1,263 "
Blaine street, from Second to Third street	. 185 "
Bridge street, from Walnut to Hall street	. 2,678 "
Carroll street, from Milford street to Amherst road	. . . . . 820 "
Cartier street, from Amory to Amory south back street	. . . . . 250 "
Cartier street, from Wayne to Putnam street	. 500 "
Cedar street, from Elm to Chestnut street	. 570 "

Cedar street; from Pine to Lincoln street	. 2,650 feet.
Cedar south back street, from Elm east back to Chestnut street	450 “
Chestnut street, from Brook to Webster street	. 2,324 “
Clarke street, from Elm to Union street	810 “
Conant street, from Main street westerly	700 “
Dean street, from Elm to Canal street	648 “
Elm street, from Clarke to Rowell street	2,666 “
Elm street, from Short to Baker street	3,475 “
Franklin street, from Granite to Merrimack street	950 “
High street, from Maple to Jane street	580 “
Laurel street, from Pine to Lincoln street	2,199 “
Laurel street, from Wilson to Hall street	471 “
Laurel street, from Belmont to Highland street	1,460 “
Massabesic street, from Lake avenue to Cypress street	2,510 “
Mast street, from Main street to Brigham's west line	1,050 “
Mast road, from Amherst road westerly	1,100 “
Old Falls road, from Belmont to Massabesic street	930 “
Pine street, from Merrimack to Amherst street	830 “
Putnam street, from Beauport to Dubuque street	540 “
River street, from Ferry street to M. & N. W. R. R.	816 “
Riddle street, from Milford to Mast street	888 “
Second street, from Granite to M. & N. W. R. R.	1,580 “
Spruce street, from Pine street to James Hall road	6,404 “
Tilton street, from Milford street northerly	485 “
West Hancock street, from Main street easterly	600 “

Total grades established 47,210 feet.

Equal to 8.94 miles.

NEW HIGHWAYS LAID OUT.

Amory street, Beauport to Dubuque street	50 feet wide.
Beauport street, Sullivan to Conant street	50 " "
Beech street, Gore street north 370 feet	50 " "
Blaine street, Third to Second street	50 " "
Cartier street, Amory to Amory south back street	50 " "
Cartier street, Wayne to Sullivan street	50 " "
Chestnut street, Hooksett road to Webster street	50 " "
Chestnut street, Clarke street north 256 feet	50 " "
Dubuque street, Wayne to Amory street	50 " "
Morgan street, Amory to Kelly street	50 " "
Putnam street, Beauport to Dubuque street	50 " "
Welch avenue, Elm street to Calef road	30 " "

ROADS DISCONTINUED.

Young road, Pine to Beech street . . . 990 feet long.

SCHEDULE OF SEWERS, JANUARY 1, 1889. — *Concluded.*

MATERIAL AND LENGTH OF SEWERS.

STREETS.	AKRON PIPE.						PORTLAND PIPE.			CEMENT PIPE.						EASTERN PIPE.		BRICK SEWERS.										IRON PIPE.	Total length in feet in each street.						
	8 in.	10 in.	12 in.	15 in.	18 in.	20 in.	24 in.	8 in.	12 in.	18 in.	9 in.	10 in.	12 in.	16 in.	18 in.	24 in.	16 in. by 24 in.	10 in.	12 in.	18 in.	24 in.	29 in.	36 in.	42 in.	44 in.	57 in.	17 in. by 26 in.			20 in. by 30 in.	24 in. by 36 in.	29 in. by 44 in.	30 in. by 46 in.	32 in. by 48 in.	40 in. by 44 in.	36 in.
Amount brought up.	5,117	23,431	46,307	7,640	1,440	2,110	1,860	90	2,725	770	14,844	1,475	21,807	1,330	460	.....	1,805	850	2,545	5,725	2,912	1,600	545	446	1,195	500	1,527	1,197	5,395	3,650	1,360	2,601	790	277½	196,590½
Reed lot.....				145																															145
River.....		1,443																																	1,443
River road.....																																			1,175
Russell.....	8	1,115																																	1,123
Sagamore.....	110			183																															293
Sagamore south back.....			406																																405
Salmon.....	4			849																															853
Salmon south back.....			246																																246
School.....		460	141											250																					851
Second.....	47		342											345																					734
South.....	9	328																																	467
Spruce.....														130																					130
Spruce, East.....		80				10																													90
Spruce south back.....		250	2,141																																2,721
Third.....																																			375
Union.....	58		125		1,395		1,250																												575
Union east back.....																																			5,923
Valley.....		825	1,060																																2,745
Walker.....			900																								900								1,260
Walnut.....																																			915
Walnut east back.....		440	397																																350
Washington.....																																			2,111
Warren.....			506																																320
Wayne.....			793	266																															506
Webster.....	153			1,448																															1,059
West.....		49		300																															2,292½
Wilson.....	154	150																																	919
Winter.....		1,250																																	654
Winter Place.....	8																																		1,250
Total feet, each size.	6,668	30,327	51,757	10,831	2,835	2,120	3,110	90	4,170	770	16,051	1,685	24,379	1,330	860	735	1,805	1,175	2,545	5,725	2,912	1,600	545	446	1,195	1,400	1,527	1,197	8,242	4,530	1,360	2,601	790	277½	196,590½
Total feet, each kind.				106,648					5,030					46,845				3,720									34,070						277½	Miles.	
" miles, " "				20.198					0.952					8.872				0.704									6.453					0.052	37.23		

SEWERS BUILT IN 1888.

STREET.	Location.	Material.	Size in Inches.	Length in feet.
Cedar.....	Union to Lincoln.	Akron.	20	1,840
Lincoln.....	Cedar to Spruce.....	"	20	270
Spruce, east	From Lincoln, easterly.	"	20	10
Bridge	From McGregor, easterly.....	"	15	97
McGregor.....	From Bridge, northerly... ..	"	15	112
McGregor west back....	From Main, southerly..	"	15	608
Main	From Milford, southerly.....	"	15	303
Merrinack.....	From Elm, easterly	"	15	440
Reed lot.....	McGregor to McGregor west back.	"	15	145
Appleton... ..	East of Chestnut street.....	"	12	62
Bay east back	Salmon to North.....	"	12	635
Chestnut.....	Appleton to Clarke.....	"	12	948
Chestnut.....	Across Ray brook.....	Iron.	12	12
Clarke	From Chestnut, westerly.....	Akron.	12	127
Concord.....	From Derry, westerly.....	"	12	155
High	From Pine, westerly.....	"	12	36
Lake avenue south back	From Wilson, westerly...	"	12	96
Lowell south back.....	From Chestnut, westerly.....	"	12	12
Main	From Monmouth, northerly	"	12	538
Pine.....	Concord to Lowell south back ..	"	12	159
Salmon south back....	Salmon to Salmon south back....	"	12	267
School, extension.....	From Pine, easterly.....	"	12	246
School, extension.....	Across Co.'s land to river.....	"	12	117
Second	Across Co.'s land to river.....	Iron.	12	24
Spruce south back.	Ferry to School south back.....	Akron.	12	342
Adams... ..	From Lincoln, easterly.....	"	12	191
Arlington	From Beauport, westerly... ..	"	10	146
Lowell south back.....	Warren to Ashland.....	"	10	370
Pearl.....	From Chestnut, westerly.....	"	10	30
River.....	From Ashland, westerly.....	"	10	124
Union east back ...	And across private land.....	"	10	867
Amherst.....	North of Sagamore street.....	"	10	75
Appleton.....	From Union, easterly.....	"	8	170
Lake avenue.....	West of Chestnut street.....	"	8	118
Monmouth.	From Wilson, easterly..	"	8	50
Pine.....	McGregor west back, westerly....	"	8	120
Sagamore	Salmon south back to Sagamore..	"	8	130
Second	From Pine, westerly	"	8	110
Wilson.....	Ferry to School south back.....	"	8	47
	Lake ave. to Lake ave. south back	"	8	134
				10,283

SUMMARY.

Total 20-inch Akron pipe	2,120 feet.
" 15-inch " "	1,705 "
" 12-inch " "	3,931 "
" 12-inch Iron "	36 "
" 10-inch Akron "	1,612 "
" 8-inch " "	879 "

10-inch Akron pipe in new cesspools . . .	170 feet.
8-inch " " " " . . .	999 "
12-inch " " culverts and drains . . .	70 "
8-inch " " " " " . . .	574 "
<hr/>	
Total length of new pipe laid in 1888	12,096 feet.
12-inch Portland pipe relaid	198 feet.
8-inch Akron pipe relaid for cesspools . . .	238 "
10-inch Akron pipe connections repaired . . .	2 "
8-inch " " " "	168 "
6-inch " " " "	32 "
<hr/>	
Total	638 feet.
Total pipe laid in 1888	12,734 "
Equal to 2.41 miles.	

Former reports have spoken in detail of the various demands upon our time, and it is unnecessary for me to repeat. I wish to speak, however, of some of the pressing needs of the office, made more apparent by the increasing growth of the work year by year.

The most important of these is the need of a fire-proof vault. We have now in the office eighty field-books and more than one thousand plans, besides records of one kind and another, representing ten years of labor, and valued at the lowest estimate at fifty thousand dollars. These are without protection of any kind should a fire ever break out in the building.

Though our drawing room is partially fire-proof, it would afford but little protection, as the entire building is a veritable tinder-box, filled with inflammable material. Even should the fire not destroy it, the damage to plans and books by water would be fully as great.

The year just passed marks the end of the first decade of the existence of this office. Starting ten years ago

with a few plans, and doing a few small jobs here and there, the office has been steadily growing, till the past year we have attended to everything from setting stakes for a cobble gutter to preparing plans for the handsome engine-house and ward-room on Lake avenue. While the work in the office has extended in all directions, the appropriation remains substantially the same as at first. It is obvious that this state of things is not in keeping with the liberal policy pursued by the city in other departments.

Nature has been playing some curious pranks with our streets, or else there have been some terrible blunders made by past engineers. There are places in this city where distances are given from one stone-bound to another that do not measure within four feet of the given distance. It has been our aim to have these mistakes honestly and justly corrected before it is too late.

During my first year in charge of the office, plans were laid for a complete survey of the city. These surveys have been extended as rapidly as possible, when not conflicting with our regular work. With the present force in the office, and the many demands upon our time by the city and by private individuals, little can be done towards completing the plans. If the appropriation could be enlarged, I should employ additional assistants, and complete the survey as soon as possible, as each year makes the work more difficult, owing to the loss of old fences and hubs, which in many streets are the only means of determining the lines.

SEWERS.

Early in the year, the Committee on Sewers and Drains, recognizing the need of a system of sewerage for the city, issued an order to prepare a plan whereby the entire city

would be provided with adequate sewerage for years to come. This was a larger and more extensive undertaking than any previous city engineer had been called upon to perform. The fact that it had to be done in connection with our regular work necessitated the employment of additional assistants, and devoting nearly every evening to it.

The plan was submitted to Mr. E. W. Bowditch, chief engineer of Boston, sewerage expert and consulting engineer, and the suggestions made by him were adopted.

The plan, as completed and accepted by your honorable board, embraces substantially the following: The principal main sewer begins near the present Valley-street outlet, only farther into the river; thence through Valley and Elm streets to Bridge street, varying in size, as the drainage area and grade demand, from seven-foot circular (brick) at the river to ten-inch circular pipe at Bridge street. The next main is the Bridge and Canal streets outlet, which will remain as at present, except a slight change in size. These sewers drain the settled portion of the city north of Auburn street and east of Canal street.

In the southern part of the city there are two large mains. One starts at Auburn and Elm streets; thence through Auburn, Pine, and Summer streets to Massabesic street. This sewer is to drain the valley east of Massabesic street, Hallsville, and the land north of Young street and east of the Valley Cemetery. The next main begins at Elm and Cedar streets, thence through Cedar street to Lincoln street, and drains the Wilson Hill, Wilson-street, and Lincoln-street sections.

Starting from Cedar street is the Union-street main, following the same course as the present sewer, but of sufficient size and proper grade to drain without overflow and damage to cellars, as at present.

These are the principal mains in the central portion of the city. In Bakersville there is a main starting at the river, thence through the proposed Somerville-street extension, as shown on plan, crossing Elm street low enough to drain Baker street, and continuing to Union street. This drains all the territory east of Elm street to the Concord & Portsmouth Railroad, and south of Valley street to Baker street.

If the growth of the city in this direction demands it, a second main will be built in a proposed street following the valley of the brook from the river to Calef road, and thence easterly, making the main a direct line to the river.

In West Manchester, the mains in McGregorville, Ferry street, and the section south of Piscataquog river follow substantially the same routes as at present, but will be relaid with larger pipe. The sewers in the Douglas-street section, that have caused so much trouble in the past, will all be relaid and connected with a main in Douglas street, running direct to Piscataquog river. A small main in West Hancock street, draining the surrounding territory, will empty into Merrimack river.

Amoskeag is provided with two small mains, one entering the river at Amoskeag Falls, the other near the eddy.

In connection with these main sewers, sub-mains and laterals have been provided for throughout the city, of sufficient size, and laid at such depths and grades, as to properly drain all cellars and cesspools.

In the city proper, provisions have been made for a low-level collecting sewer, running through Canal street, so that the sewage may all be discharged at one point. On the west side the same thing has been provided for by a proposed intercepting sewer in River street. Should it ever be necessary to dispose of the sewage by

precipitation or filtration, it can easily be done through the last mentioned outlets.

In conclusion, to insure the success of this plan, one thing is necessary, — *it should be followed out in every particular.*

It may seem unnecessary to-day to lay a 24-inch sewer in a certain street, when for the present an 8-inch sewer would do as well; but in future years, when all streets have been provided for as laid down on the plan, the wisdom of making the sewer 24 inches instead of 8 inches will be apparent. No sewer will be too large or too small, but all will work together as perfectly as the most carefully constructed machine.

In regard to connections, the present method of allowing any one to open the sewer for the purpose of connecting a private drain is radically wrong. No sewer should be allowed to be opened unless by some person employed by the sewer department, or under his direction. When such connection is made, a careful record should be entered on the books, giving location, depth, size, and grade, not only where it leaves the sewer, but also where it enters the building. By having this work done under the direction of a competent person, the common complaint that the sewers do not work properly will be stopped. Nine tenths of the cases, upon investigation, prove to be due entirely to improperly constructed house-drains.

The present city ordinance relating to sewer connections should be so amended as to admit of the appointment of an inspector of sewers, whose duty it should be to see that the rules are properly enforced.

SEWER PLANS.

The plans cover an area of about five thousand acres, and consist of one plan 5' by 9', including that part of

the city proper lying between Merrimack river, Mammoth road, Pine Grove Cemetery, and the State Industrial School; one plan of West Manchester, 5' by 9', including McGregorville and Amoskeag, and extending to the Goffstown line; and two hundred and fifty-six profiles of streets, covering a distance of seventy-one miles. About one hundred and twenty miles of profile levels have been taken and eight months' time consumed, in connection with the regular office work, in preparing the plans.

PUBLIC SQUARES.

William Sanborn, superintendent of District No. 2, has had charge of the work in the several public squares.

In Merrimack square, a cast-iron urinal has been placed in position and the approaches concreted. Two thousand and thirteen square yards of concrete have been laid for walks. The fill over the old pond has been completed.

In Hanover, Concord, Tremont, and Park squares, minor repairs have been made. The walk on the north side of Hanover square should be concreted the coming season, and the main walk repaired in places.

The interest taken in regard to Monument square seems to have died out. Nothing has been done except to trim a few trees and cut the grass and weeds, and strangers are as much at a loss to know how to reach it as ever. At a slight expense a driveway could be constructed from River road to the main entrance, allowing visitors to ride directly to the square, instead of walking some distance over plowed ground and stubble.

CEMETERIES.

Pine-Grove.—A great amount of work has been done here, and more than the usual number of lots laid out. The section east of Willow avenue has been divided into

lots upon the plan, and about two thirds of it staked out on the ground. We began staking this out in 1887, but stopped on account of the grading not being done. We were delayed this year in starting upon the work by reason of waiting for the grading to be completed. When one third of this section was graded, sixty lots were laid out; then, upon receiving complaints that there were not lots enough, the next section of sixty lots was staked out without waiting for the grading. This latter part will have to be restaked whenever the grading is completed. It would be a saving in expense to this office, if in the future all new sections were graded before staking out the lots. The section in the southwest corner is partially graded. The plans will be completed by the time it is ready for staking out.

Valley. — Line and grade have been given for improving the usual number of lots. Suggestions were also given regarding the grading in the valley and around the brook. A design was submitted and accepted for a carriage bridge across the brook, to replace the small foot-bridge.

When it was decided to have a new tomb, various locations were examined by the committee, and sketches were made for buildings particularly adapted for each site. Having agreed upon the present location, plans were made for a tomb appropriate to the place, and coming within the amount to be expended. After the plans were completed, the committee decided to make the tomb some twenty feet longer, besides making other changes in the manner of construction, one being in reducing the thickness of the back wall, the most important part of the building. The peculiar location of the tomb will necessitate the building of a retaining-wall and railing at the bank in front, for the security of the driveway. The

bank at the rear will also be a source of considerable trouble and expense in maintaining in proper shape.

BRIDGES.

The various bridges have had the planking repaired in places. McGregor bridge needs to be entirely replanked. The piers to the approaches should be rebuilt on account of settling and canting, due to frost and the pressure of the bank behind them.

When it becomes necessary to rebuild the Main-street bridge over Piscataquog river and the bridge across Black brook, it would be economy for the city to have them constructed of stone.

BUILDINGS.

Plans have been made in the office for the public comfort in the rear of the City Hall.

Plans were also made for the Lake-avenue engine-house and ward-room, and for the proposed city stable, in which work we received the assistance of Mr. John M. Kendall. The exterior of the engine-house is finished, and the inside work is rapidly advancing. The contract calls for its completion by March. In the plans for the city stable, the main building provides for the accommodation of nineteen horses, together with two box stalls, harness-room, and a commodious hay-loft. The L includes a carriage-room, tool-room, public office, and a private office for the superintendent of streets. The need of this building is clearly demonstrated, the street department having long ago outgrown its present quarters.

In addition to the above work, sketches were submitted for the addition to the Lincoln-street school building.

Several plans have been prepared for the electric light committee and various companies, and for the police telegraph committee. Many small jobs have been attended to, and suggestions given in regard to work, of which no mention is made in this report.

I wish to thank those who have kindly loaned plans, and for information which was of value to the city. In conclusion, I wish to acknowledge my indebtedness to your board for the unvarying kindness with which I have been treated.

Respectfully submitted.

WINFRED H. BENNETT,

City Engineer.

January 1, 1889.

REPORTS OF DISTRICT SURVEYORS.

Report of the work done in the various highway districts during the year 1888.

DISTRICT NO. 1.

ORISON WEBBER, SURVEYOR.

Graveled fifteen rods.

Repaired three culverts.

General repairs attended to where necessary.

DISTRICT NO. 2.

WILLIAM SANBORN, SUPERINTENDENT.

COBBLE PAVING.

Ashland street, from Bridge northerly	. 77.7 sq. yds.
Beech street, from Hanover to Central	. 576.6 "
Bridge street, from Union to Walnut	. 146.6 "
Cedar street, from Elm to Chestnut	. 87.5 "
Central street, from Beech westerly	. 210.7 "
Central street, from Chestnut to Pine	. 280.0 "
Granite street, from Franklin westerly	. 44.4 "
Hanover street, from Hall to Milton	. 177.7 "
High street, from Ashland easterly	. 40.0 "
Lake avenue, from Wilson easterly	. 273.3 "
Lowell street, from Walnut to Beech	. 146.6 "
Manchester street, from Chestnut to Pine	206.6 "
Pine street, from Hanover northerly	. 793.3 "
Total cobble paving	. . . 3,061.0 sq. yds.

COBBLE EDGING.

Ashland street, from Bridge northerly . . .	200 feet.
Beech street, from Hanover to Central . . .	1,630 "
Bridge street, from Union to Walnut . . .	440 "
Central street, from Chestnut to Pine . . .	420 "
Central street, from Beech westerly . . .	632 "
Hanover street, from Hall to Milton . . .	400 "
High street, from Ashland easterly . . .	120 "
Lake avenue, from Wilson easterly . . .	820 "
Lowell street, from Walnut to Beech . . .	440 "
Manchester street, from Pine westerly . . .	100 "
Pine street, from Hanover northerly . . .	2,080 "
	<hr/>
Total cobble edging	7,282 feet.

EDGE STONES.

Auburn street, from Elm east back easterly . . .	25 feet.
Belmont street, from Hanover northerly . . .	120 "
Cedar street, from Elm to Union	200 "
Central street, from Chestnut to Pine	103 "
Hanover street, from Belmont westerly	120 "
Lake avenue, from Elm east back easterly	50 "
Laurel street, from Lincoln westerly	20 "
Manchester south back street, from Elm east back easterly	56 "
Merrimack street, at Young's block	75 "
Pine street, from Concord to High	230 "
Spruce street, from Elm to Union	145 "
	<hr/>
Total edge stones set	1,144 feet.

EDGE STONES RESET.

Central street, from Chestnut westerly	25 feet.
Elm street, at City Hall	100 "

Elm street, at Merchants' Exchange	70 feet.
Granite street, at city yard	100 "
Union street, from Merrimack southerly	56 "
Spruce street	25 "
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Total edge stones reset	376 feet.

MACADAMIZING.

New.

Beech street, from Central to Hanover	2,858.66 sq. yds.
Bridge street, from Union to Walnut .	824.00 "
Central street, from Chestnut to Pine	1,011.00 "
Central street, from Beech westerly .	741.00 "
Lowell street, from Walnut to Beech .	754.00 "
Manchester street, from Chestnut to Pine	728.00 "
Pearl street, from Chestnut to Pine .	965.00 "
Pine street, from Manchester to Am- herst	1,562.66 "
Pine street, from Concord to Bridge .	2,039.00 "
Union street, from Laurel to Merri- mack	533.00 "
	<hr/>
Total new macadamizing	12,016.32 sq. yds.

Top-Dressed.

Central street, from Chestnut to Frank- lin	2,316.61 sq. yds.
Granite street, from Elm to Canal .	1,302.00 "
	<hr/>
Total top-dressed	3,618.61 sq. yds.

Number of loads of crushed stone used, 2,669.

Number of loads of bottom stone used, 794.

STREETS GRAVELED.

Amherst street, from Beech easterly	250 feet.
Ashland street, from Arlington to Bridge	200 "
Belmont street	100 "
Auburn street, near Maple	100 "
Central street, from Belmont to Milton	250 "
Chestnut street, from Webster northerly	490 "
Franklin street, from Granite southerly	620 "
Hanover street, from Maple easterly	275 "
High street, from Chestnut to Union	496 "
Hollis street, from Elm westerly	200 "
Lake avenue, from Wilson to Massabesic	630 "
Laurel street, from Union to Beech	582 "
Laurel street, from Maple to Belmont	1,738 "
Lincoln street, from Hanover to Laurel	512 "
Manchester street, from Belmont to Milton	250 "
Merrimack street, from Pine to Beech	600 "
Merrimack street, from Maple to Lincoln	550 "
Merrimack street, from Lincoln easterly	50 "
Nashua street, from Arlington to Bridge	290 "
Old Falls road, from Lake avenue to Spruce	300 "
Pearl street, from Chestnut to Pine	312 "
Pine street, from Blodget to Salmon	570 "
Salmon street, from Chestnut to Pine	200 "
Spruce street, from Elm to Chestnut	570 "
Union street, from Auburn to Laurel	840 "
Webster street, from Elm to Union	1400 "
Wilson street, from Hanover to Manchester	130 "
Total graveled	<u>12,505 feet.</u>

GRADING FOR CONCRETE.

Ash street, from Amherst to Concord	166.6 cu. yds.
Ash street, from Harrison northerly	133.3 "

Ash and Pearl streets	119.9	cu. yds.
Ashland street, from East High northerly	90.0	"
Auburn street, from Pine easterly	320.0	"
Auburn street, from Union to Beech	711.1	"
Auburn and Beech streets	621.6	"
Elm and Valley streets	444.4	"
Elm street, from Valley northerly	586.6	"
Elm street, from Merrill to Young	240.0	"
Hanover street, from Wilson westerly	90.0	"
Hanover square	266.6	"
Merrimack street, from Hall easterly	180.0	"
Merrimack square	666.6	"
Milton street, from Lake avenue northerly	133.3	"
North and Bay streets	180.0	"
Orange street, from Walnut to Beech	131.0	"
Orange street, from Oak to Russell	90.0	"
Pearl street, from Russell easterly	177.7	"
Pine street, from Hanover to Amherst	216.6	"
Webster street, from Elm westerly	213.3	"

Total grading for concrete 5,778.6 cu. yds.

This refers only to places where the fill has been a foot or more. In many places only a few yards have been used, scattered here and there.

SEWERS AND DRAINS.

20-inch Akron pipe	2,120	feet.
15-inch Akron pipe	440	"
12-inch Akron pipe	2,934	"
12-inch Portland pipe (relaid)	198	"
12-inch iron pipe	12	"
10-inch Akron pipe	599	"
8-inch Akron pipe	712	"

Total 7,015 feet.

CESSPOOL CONNECTIONS.

10-inch Akron pipe	172 feet.
8-inch Akron pipe	1,081 "
8-inch Akron pipe (relaid)	360 "
6-inch Akron pipe (relaid)	32 "
	<hr/>
Total	1,645 feet.
Total pipe laid	8,660 "
Equal to 1.64 miles.	

PIPE ON HAND.

Pipe on hand corner of Spruce and Wilson streets, 20-inch Akron	1,445 feet.
Pipe on hand at city yard, 24-inch	8 feet.
" " 15-inch	27 "
" " 12-inch	96 "
" " 10-inch	41 "
" " 8-inch	362 "
	<hr/>
Total	1,979 feet.

11 Y branches, 6 by 15 inches.

6 Y branches, 8 by 12 inches.

22 Y branches, 8 by 10 inches.

10 12-inch curves.

Catch-basins built, 66; repaired, 20; manholes built, 8.

CROSSINGS.

Concrete, new, 26; top-dressed, 22; patched, 4.

CONCRETE.

Crossings, new	751.8 sq. yds.
Crossings patched	16.1 "
Crossings top-dressed	645.2 "
City Hall	41.7 "

City yard	233.0 sq. yds.
Merrimack square	2,013.0 "
Park square	393.0 "
Tremont square	1,076.4 "
Webster-street engine-house	574.7 "
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Total	5,744.9 sq. yds.

Roadways Repaired.

Granite street, canal bridge	393.0 sq. yds.
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Gutters Repaired.

Beech street, at A. M. Eastman's	33.3 sq. yds.
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CONTRACT WORK.

Belmont-street culvert: Warren Harvey, contractor.
Grove-street culvert: J. A. Brown, contractor.
Webster street, 5 culverts: John Perham, contractor.
Webster street, turnpiking: John Perham, contractor.

PIPE CULVERTS.

Ashland street, at East High, 12-inch Akron	40 feet.
Pearl street, at Warren, 12-inch Akron	70 "
	<hr/>
Total	110 feet.

DISTRICT NO. 3.

FRANK A. EMERSON, SURVEYOR.*

Built bank wall on Elm street at Mr. Colby's.
 Turnpiked and graveled roads where needed.
 Minor repairs where necessary.

EDWIN N. BAKER, SURVEYOR.†

General repairs attended to.

* To December 4, 1888. † From December 4, 1888.

DISTRICT NO. 4.

ISAAC WHITTEMORE, SURVEYOR.

No report.

DISTRICT NO. 5.

MARK E. HARVEY, SURVEYOR.

Turnpiked	2,321 feet.
Graveled	3,967 "
Graded (cut)	6,124 cu. ft.

CULVERTS.

Built one new stone culvert (side)	22' × 1' × 1'
Rebuilt one (stone)	22' × 18" × 18"
Cleared and rebuilt part of two (stone).	

Rebuilt part of one abutment of the small bridge near the old "Harvey Mill", using 11.2 perch of stone; also rubbled the bed of the brook at this place, using ten cart-loads of stone.

Cut bushes on eight miles of road, both sides.

Built 131 feet of new railing.

Repaired railings, removed stones from road, and made all general repairs where needed.

DISTRICT NO. 6.

ALBERT J. PEASLEE, SURVEYOR.

Graveled	900 feet.
Turnpiked	2,900 "

One stone culvert built and two repaired.

Replanked Webster-road bridge, over Cohas brook, at water-works dam.

Lowered 140 feet of paved gutter 13 inches, on Cohas avenue, near reservoir, using material removed on road.

Water-bars repaired, ditches cleaned, and other repairs attended to throughout the district.

DISTRICT NO. 7.

GEORGE M. BEAN, SURVEYOR.

No report.

DISTRICT NO. 8.

JOHN PROCTOR, SURVEYOR.

Proctor road, lengthened large culvert twenty feet, small culvert ten feet.

Straightened road in many places and filled hollows.

Hanover-street road, graveled 300 feet at McGregor hill and Eaton hill.

Hanover-street road and Candia road, turnpiked and graded one mile.

Hanover street, filled at sides, using 75 cubic yards of earth.

Cut bushes throughout district; built 50 feet of wall.

Made all necessary repairs.

DISTRICT NO. 9.

NELSON W. PAIGE, SURVEYOR.

No report.

DISTRICT NO. 10.

CHARLES O. PHELPS, SUPERINTENDENT.

Cobble gutter paving	125 sq. yds.
Curbstone set	239 feet.

CONCRETE.

Four crossings	102.36 sq. yds.
Main-street, at engine-house	32.00 "
Douglas and Main, sidewalk repaired	5.33 "
	<hr/>
Total	139.69 sq. yds.

One thousand three hundred and six square yards of concrete have been laid by private individuals.

STREETS GRAVELED.

Amory street, Main westerly	350 feet.
Beauport street, Amory southerly	360 "
Blaine street, Main easterly	500 "
Bridge street	450 "
Carroll street, Milford northerly	650 "
Hancock street, Main easterly	400 "
Main street, Mast southerly	900 "
Milford street, Tilton westerly	700 "
Riddle street, Milford northerly	860 "
Third street, Blaine northerly	300 "
Tilton street, Milford northerly	450 "
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Total graveled	5,920 feet.

STREETS GRADED.

Beauport street, Adams southerly	675 feet.	332 cu. yds.
Blaine street, Maine easterly	1,100 "	1,336 "
Carroll street, Milford northerly	650 "	789 "
Cartier street, Amory southerly	190 "	246 "
Cartier street, Wayne southerly	475 "	376 "
Conant street, Main westerly	387 "	183 "

Douglas street, Barr westerly .	500 feet.	93 cu. yds.
Ferry street, Main easterly .	633 "	461 "
McGregor street, Amory north- erly.	800 "	132 "
McGregor west back street .	500 "	64 "
Monmouth street	208 "	126 "
Riddle street, Milford southerly	860 "	1,044 "
Third street, Blaine northerly .	330 "	143 "
Tilton street, Milford northerly .	450 "	100 "
West Hancock street, Main east- erly	650 "	123 "
Totals	8,408 feet.	5,548 cu. yds.

GRADING FOR CONCRETE.

Amory street, Cartier northerly	234 feet.	67 cu. yds.
Bowman street, Milford southerly	150 "	43 "
Bridge street	400 "	37 "
Carroll street, Milford northerly	617 "	176 "
Cartier street, Amory southerly	190 "	54 "
Ferry street, Main easterly .	633 "	145 "
Main street, Milford southerly .	100 "	20 "
Main street, Amory northerly .	100 "	38 "
Main street, Monmouth north- erly	216 "	124 "
Milford street, Bowman westerly	75 "	22 "
Monmouth street	50 "	43 "
Third street, Ferry southerly .	264 "	151 "
West street, Douglas northerly .	100 "	27 "
Totals	3,129 ft.	947 cu. yds.

SEWERS AND DRAINS.

15-inch Akron pipe	1,265 feet.
12-inch " "	1,067 "
12-inch iron pipe	24 "
10-inch Akron pipe	1,013 "
8-inch " "	613 "
8-inch " " relaid	46 "
	<hr/>
Total sewers	4,028 feet.

Catch-basins built, 17; manholes, 11; lamp-holes, 1.

Streets turnpiked with road-machine, gutters cleaned, and minor repairs attended to.

DISTRICT NO. 11.

FRANK D. HANSCOM, SURVEYOR.

Macadamized 331 yards.

Graveled 1,500 feet in length and 15 feet wide. Turnpiked 3 miles.

Built one culvert 20' \times 16" \times 16", and two culverts 8' \times 1' \times 1', each.

Replanked both bridges over Black brook.

Removed stones from roads, filled mud-holes, repaired railings, reset guide-boards, and made all necessary repairs.

Owing to the extra expense attendant upon breaking out roads during the winter, very little of the appropriation was left for needed improvements.

I would call the attention of the city government to the dangerous condition of the road at the eddy, especially during seasons of high water. It is necessary to keep constant watch there at such times, to guard against accidents.

DISTRICT NO. 12.

JOHN H. WILLEY, SURVEYOR.

Bald Hill road, turnpiked one half mile, cut bushes, and removed large stones from roadway.

New Bridge street, blasted and removed large boulders from road.

Mammoth road, graveled where needed, removed small stones and several large boulders.

General repairs throughout the district, where needed.

DISTRICT NO. 13.

WILLIAM CAMPBELL, SURVEYOR.

Graded one half mile by filling in with stone chips; graveled the same seventy rods. Repaired two culverts. Cut two miles of brush. Filled mud-holes, repaired water-bars, and attended to all necessary repairs.

REPORT
OF THE
SCHOOL COMMITTEE.

SCHOOL DEPARTMENT

ORGANIZATION FOR 1888.

SCHOOL COMMITTEE.

JOHN HOSLEY, Mayor, *ex officio*, Chairman.

EDWARD L. KIMBALL,

President of the Common Council, *ex officio*.

Ward 1. — Charles H. Manning.

John G. Hutchinson.

Ward 2. — Benjamin C. Dean.

William C. Clarke.

Ward 3. — Nathan P. Hunt.

James E. Dodge.

Ward 4. — Samuel D. Lord.

Stephen W. Clarke.

Ward 5. — Thomas F. Collins.

John J. Holland.

Ward 6. — William H. Huse.

Abial C. Flanders.

Ward 7. — Marshall P. Hall.

Edward B. Woodbury.

Ward 8. — George W. Nutter.

Luther C. Baldwin.

VICE-CHAIRMAN OF THE BOARD.

BENJAMIN C. DEAN.

CLERK OF THE BOARD.

JAMES E. DODGE.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

TRUANT OFFICERS.

SAMUEL BROOKS.*

GEORGE M. L. LANE. †

STANDING COMMITTEES.

Finance. — The Mayor, Messrs. S. W. Clarke, Kimball, Dodge, Holland.

Salaries. — Messrs. Woodbury, Collins, Hall.

Repairs, Furniture, and Supplies. — Messrs. Manning, Flanders, Nutter.

Text-Books, Apparatus, and Studies. — Messrs. Dean, Hunt, W. C. Clarke.

Drawing. — Messrs. Hall, Huse, Baldwin.

Music. — Messrs. Lord, Huse, Baldwin.

Fuel and Heating. — Mr. Dodge, the Mayor, Messrs. Kimball, Manning, Flanders.

Examination of Teachers. — Messrs. Hunt, Dean, S. W. Clarke.

Attendance. — Messrs. Collins, Hutchinson, Woodbury.

Health. — Messrs. Nutter, Holland, Hutchinson.

SUB-COMMITTEES.

High School. — Messrs. Manning, Dean, Hall, S. W. Clarke, Hunt.

Ash and Bridge Streets. — Messrs. Dean, Hunt, W. C. Clarke.

* Two terms. † One term.

Lincoln Street. — Messrs. Lord, Huse, S. W. Clarke.

Spring Street. — Messrs. Hall, Holland, Manning.

Franklin Street. — Messrs. Dodge, Woodbury, Hutchinson.

Lowell Street. — Messrs. Hutchinson, Flanders, Collins.

Training School and Wilson Hill. — Messrs. Hunt, Dean, Dodge.

Beech Street. — Messrs. Collins, Flanders, Woodbury.

West Manchester Grammar. — Messrs. S. W. Clarke, Manning, Baldwin.

School Street and South Main Street. — Messrs. Baldwin, Nutter, Hall.

Webster Street, Blodget Street, Amoskeag, and Stark District. — Messrs. W. C. Clarke, Lord, Dodge.

Bakersville. — Messrs. Flanders, Holland, Huse.

Hallsville and Youngsville. — Messrs. Huse, Baldwin, Hutchinson.

Mosquito Pond and Webster's Mills. — Messrs. Holland, Flanders, Nutter.

Goffe's Falls and Harvey District. — Messrs. Nutter, Collins, Hutchinson.

Evening Schools. — Messrs. Woodbury, Collins, Lord.

IN BOARD OF SCHOOL COMMITTEE.

December 31, 1888.

The Superintendent presented his annual report to the committee, and it was accepted.

Charles H. Manning presented the annual report prepared by him at the request of the board.

Voted, That the report by Mr. Manning be accepted, and adopted as the report of the board, and that it be transmitted to the City Councils, together with the report of the Superintendent.

JAMES E. DODGE, *Clerk*.

REPORT OF THE SCHOOL COMMITTEE.

To the Honorable City Councils:

GENTLEMEN, — We would respectfully present this, the fiftieth annual report of the condition and needs of the public schools of this city.

Such statistical information as can best be tabulated will be found, as in our report for last year, in the Appendix, under the following heads:

1. General Statistics.
2. Relating to School Buildings.
3. “ “ Schools.
4. “ “ Teachers.
5. “ “ Pupils.
6. “ “ Truancy.
7. “ “ Revenue and Expenditures.

COURSE OF STUDY.

Early in the year the matter of changes in the course of study in the High School was referred to the sub-committee of that school, who, however, thought it best not to report till after the close of the spring term; and after consultation with the superintendent, as well as both the retiring and incoming principals of that school, a course was recommended by that sub-committee and adopted by the board, which slightly modified the then existing courses, changing the business course from two

years to three, but so arranged that any one desiring to remain in the school but two years could receive substantially the same benefits as formerly. The full college course was arranged so that pupils can be fitted for any of the colleges in the country. No other changes of note have been made in any of the day-school courses.

A complete course in both mechanical and architectural drawing for the evening school has been arranged by the sub-committee on that school, and is now in successful operation.

Drawing is taught in all the schools, and we feel that there should be a special teacher in this branch, in order that more uniform methods may be used and better results obtained, with corresponding greater benefit to the pupils. In the High School a good course of technical drawing should be established, and this can be successfully conducted only by a specialist.

TEACHERS.

At the close of the spring term, Mr. E. R. Goodwin, the efficient principal of our High School, having received a more advantageous offer elsewhere, resigned his position, and Mr. Albert Somes was elected to the vacancy, and so far has fully met the expectations of the committee.

The principal of the North Main Street Grammar School failing of a re-election, his place was filled by Mr. George Winch, who is meeting with excellent success.

Death has removed during the year two of our most efficient assistants in the grammar schools, Miss Lenora C. Gilford, of the Franklin-street school, and Mrs. Mary J. Fife, of the Lincoln-street school.

The special instructor in elocution having been in ill-health, he has not been able to resume his work this year,

and none other has been secured to take his place, which is a serious loss to the schools.

Other changes will be more fully noted in the report of the superintendent.

SCHOOL BUILDINGS.

In the matter of school accommodation the city has little to be proud of, as most of the buildings are old, and one or two are in a very dilapidated condition.

The high-school building has no large hall for holding general exercises in, all such having to be held in the main assembly-room, a room dark on three sides and well calculated to ruin the eyesight of three quarters of the pupils obliged to study at their desks. Provision should be made for two more recitation-rooms, and those on the first floor, to the west of the main assembly-room, thrown into it, thus lighting it from the west, the most important side for light in our dim winter afternoons.

This school should also be furnished with a gymnasium, which could be used also as a drill shed for the Cadet Company, which should be encouraged and also be brought under control of the school authorities. That the girls as well as the boys of this school stand in need of physical training, is only too painfully apparent to any one who will carefully scrutinize a class as it passes to or from a recitation.

The Franklin-street building should either be rebuilt or extensively altered and repaired, as the internal arrangement could hardly be worse, as regards light and ventilation. The School-street building needs extensive renovation inside, if it is to be continued in use, and the sanitary arrangements entirely changed. For this work a special appropriation of at least twenty-five hundred

dollars should be made, and the work done during the next summer vacation.

The need of new buildings in West Manchester and Hallsville is even more pressing than when we called your attention to the fact a year ago. We recommend the purchase of the lot of land on the corner of Mast and Bowman Streets, containing about sixty-two thousand square feet, which can be had for the sum of six thousand dollars. At Hallsville there are several lots available, and it would be well to secure one of them immediately.

During the summer the Amoskeag schoolhouse was replastered throughout, new floor laid, new outside doors hung, and the building and fence painted. An annex building was added to the Lincoln-street house, and all the water-closets removed from the basement to this building, the fixtures being almost entirely renewed. The high-school fence was rebuilt on three sides; the east side being comparatively new, needed but small repairs.

Steam-heating has been substituted for the furnaces at the Training School, with good results. Nearly all the double desks have been altered to single ones, at a comparatively small expense. This was done in the interest of good discipline.

EVENING SCHOOLS.

The evening schools continued in the spring term till about March 10; but the fall term, owing to the political excitement, it was deemed wise to delay opening till November 12. They are now in excellent working order, as can be judged by the tabulated statement in the Appendix.

The interest in the Evening Drawing School has been fully sustained this year, the accommodation being in-

sufficient for all applying. The work accomplished is very encouraging, and we can safely report this school as an established success and well worthy of your liberal support.

TRUANT OFFICER.

There has been a change in truant officer, Mr. G. M. L. Lane having been chosen at the annual election. A report of the work of this officer will be found in the Appendix.

In conclusion, we would say that, though what we have accomplished for the schools of the city may fall far below our desires, we have endeavored to do the best we could with the means placed at our disposal, and trust our work has met with your approval.

CHARLES H. MANNING,
For the Committee.

SUPERINTENDENT'S REPORT.

To the Manchester School Board:

GENTLEMEN,—I respectfully offer the following as the annual report of the Superintendent of Public Instruction for the year 1888:

ORGANIZATION OF THE SCHOOLS.

Throughout the year six teachers have been employed in the High School, twenty in the grammar schools, and fifteen in the middle schools. There have been twenty-nine primary schools, taught by twenty-six teachers. This is accounted for from the fact that the principal of the Training School, who for convenience is reckoned among the middle-school teachers, has charge of three primary schools where no regular teachers are employed. There have also been two partially graded schools* employing three teachers, and six ungraded schools† with one teacher for each. This is equivalent to seventy-eight distinct schools of a single room each, taught by an average of seventy-six teachers. The whole number of schools and of teachers is the same as for each last year, and the only difference in the form of organization is, that a primary school at the Main-street house, taught by Mrs. Josephine H. Newton, has become of middle-school grade; because, when the pupils were ready for promo-

* The upper room at Amoskeag and the Hallsville school.

† Country suburban.

tion, there was not room for them in the then existing Main-street middle schools.

ATTENDANCE.

By an inspection of the attendance table for "Day Schools," found upon the eighth page (G) of the appendix to this report, it will be seen that there has been a slight general increase over last year in the attendance upon the various public schools. I am also pleased to record that there has been a little diminution from last year in the number of tardinesses. Though the decrease is only about one third of a tardiness to each pupil in the average attendance, in the aggregate there are not so many instances of tardiness by 752.

The average tardinesses on the average attendance have this year been, per pupil : in the high school 4, last year 4.6; in the grammar schools 2, last year 2.6; in the middle schools 3.2, last year the same; in the primary schools 2.4, last year 2.1; in the partially graded schools 2.7, last year 2.9; in the ungraded schools 2.7, last year 4.1. The change is for the better in every instance, except for the primary schools; and failure of improvement in their average is largely due to the excessive instances of tardiness that occurred in primary schools Nos. 11 and 30, in each of which there were over two hundred cases. Last year the primary schools were in the van; this year, the grammar schools are there.

The waste of time, labor, money, and of the teachers' energies and enthusiasm, on account of non-membership, irregularity of attendance, and lack of punctuality, is the one great, overmastering discouragement of every school system. Were it not for the constant and courageous fight that our teachers make to overcome these evils, there would be still far greater losses. As it is, I would

have parents realize, if possible, the great waste occasioned largely by their inattention or indifference.

The enrollment for this year has been 3,712 pupils; the number of schools maintained, 78. This gives an average of nearly 48 pupils to the room. The rooms, for the most part, have the seats; and not even an increase of salary would make our teachers so happy as to see (without effort upon their part) every one of their seats every day filled by a pupil never tardy! But out of the enrollment of 3,712, the average daily attendance has been only 2,500. Here is shown a loss, to nearly one third of those enrolled, of the instruction for them provided; and, to those in attendance, there remains the damaging effect occasioned by 6,635 instances of tardiness. If to the losses thus manifest there be added the indirect harm and demoralization that so great a number of absences and tardinesses work upon the schools, it must be seen that the instruction afforded the public is not being fully utilized by many more than half of those who have children of school age and are patrons of the public schools.

This is no new condition of things, nor is it peculiar to our city. It is the crying evil in every system of public schools; but I have said so much upon the subject in former reports, that I offer for the thoughtful consideration of parents, with whom largely rests the responsibility for the evil and in whom chiefly is the power to overcome it, the following extracts from the latest annual report of our worthy State Superintendent of Public Instruction :

“Irregular attendance is the burden of nearly all school reports, and has been since my remembrance. Tardiness, absenteeism, and dismissals are the pests of the school. They are like rust and mildew, like the countless insects

that mar the beauty and devour the fruits of the field, like the winged and creeping things that infest our homes and torment our lives. . . . We fondly flatter ourselves that we have perfected by infinite pains a system of popular education which will perpetuate liberty and insure public prosperity, but our system is disarranged and our labors baffled by neglect or indifference. . . . In every town there are parents, who, either too ignorant to appreciate or too selfish to regard the interests of society or the welfare of their children, will, for the paltry value of a child's labor, or to gratify its love of play, become the conscious or unconscious agents in disturbing the discipline, breaking down the classification, and destroying the usefulness of schools, by causing or allowing their children to be continually irregular in their attendance. The waste of school funds and the loss of intellectual and moral power to the community from this source are incalculable, for the good and the bad suffer alike from this unconscious criminality. As things are, it is impossible for teachers or school boards to remove the evil.

. . . We cannot anticipate a complete and permanent cure, as it is one of those troubles that spring from the imperfection of society. It will depart with the general improvement of humanity. The character of the school will not rise far above the level of the people."

DAY SCHOOLS.

The work of the day schools during the past year has, for the most part, been highly satisfactory. Teachers have been faithful in an attempt to discharge their duties properly, and pupils commendably regular and punctual in their attendance have made good progress. About the usual per cent of the average membership has been in attendance; and by daily inspection and occasional

examination of more or less schools, I have found the pupils in general industriously reaping the advantages by you provided, and by the corps of teachers presented with such wisdom and skill as is attained only by those specially trained or by those of a somewhat extended and thoughtful experience.

The citizens, too, of our several school precincts are, with a single exception, I think, generally well satisfied with the schools provided for their children. The patrons of the Webster-street school, however, seem to think there should be better facilities afforded them; and the point is made, that with three classes of grammar grade in a room as good instruction cannot be afforded as in other schools of similar grade where there are but two classes. But there have hardly been pupils enough in this school to justify the employment of more teachers.

The Webster-street house was first opened in September, 1882, both to better accommodate the people living at the North End and to relieve the over-crowded condition of the Ash-street schools. A school of middle grade and one of primary grade were organized for the fall term. The former had an average membership of 25 pupils; and the latter, of 21. The following will show the subsequent growth of the

WEBSTER-STREET SCHOOL.

Average Number Belonging.

1883. Grammar and middle grades	26
Primary grade	30
	<hr/>
Total	56

1884. Grammar grade *	. . . . .	29
Middle “	. . . . .	33
Primary “	. . . . .	35
Total	. . . . .	<hr/>97
1885. Grammar grade .	. . . . .	29
Second * grammar grade	. . . . .	20
Middle grade	. . . . .	34
Primary “	. . . . .	26
Total	. . . . .	<hr/>109
1886. Grammar grade	. . . . .	26
Second grammar grade	. . . . .	22
Middle grade	. . . . .	36
Primary “	. . . . .	25
Total	. . . . .	<hr/>109
1887. Grammar grade	. . . . .	30
Second grammar grade	. . . . .	30
Middle grade	. . . . .	39
Primary “	. . . . .	26
Total	. . . . .	<hr/>125
1888. Grammar grade .	. . . . .	30
Second grammar grade	. . . . .	35
Middle grade	. . . . .	28
Primary “	. . . . .	24
Total	. . . . .	<hr/>117

At next promotion time, February 1, another class will be ready for the grammar grade. There will then again be need of three classes in each grammar division, unless

* Organized from the grammar classes at the opening of the fall term.

another division is organized. Three divisions would accommodate the six classes upon the general plan of having two classes to a room; and, as nearly as I can now determine, the number for the respective schools would be as follows: Master's room, first and second divisions, 30; third division, 21; fourth division, 20; middle school, 27; and primary school, 22; or, 120 pupils for 5 teachers; and an average of 24 pupils per teacher. The little variation in number likely to occur would probably increase rather than decrease the estimates. In view of the improvement that would be afforded by the employment of the right additional teacher, I some weeks since suggested to the chairman of the sub-committee of this school a consideration of the advisability of effecting such a change upon occasion of making next promotions.

The average number of pupils belonging to the grammar schools per teacher, this year, has been as follows: At the Lincoln-street and Ash-street schools, each, 43; at the Spring-street and Main-street schools, each, 39; at the Franklin-street and Webster-street schools, each, 32. Only the last named of these schools has more than two classes to any division. The foregoing unequal distribution of pupils is unfortunate; but it cannot be helped, so far as the Webster-street school is concerned, without requiring pupils to go far from home to school. There is a plan under consideration by the appropriate sub-committees for the union, at the proper time, of the one grammar division at the Spring-street house with the grammar school on Franklin street. Such a change would bring the latter school approximately near the other large schools, in respect to numbers. The change would be agreeable to the master of the Franklin-street school, who would like to see his first and second divi-

sions well filled; and the discontinuance of the Spring-street grammar division would release a teacher there, who might be transferred to the Webster-street school, or wherever else more needed. The effect of the consolidation upon the Spring-street pupils would be merely to anticipate their transfer by one year.

PROMOTIONS.

The subject of greatest general interest among parents appears to be the advancement of their children from class to class.

As long as they are regularly advanced, all is satisfactory; but when any fail of such promotion, those of their parents who are in the habit of acting from first impulses usually blame the teacher. Such do not seem to think that three or four weeks' non-membership (though but eighteen weeks are required for doing the entire work of a class), or any amount of irregularity in punctuality or attendance, or so weak a condition of scholarship when last promotions were made that the pupil in question was then advanced only through the benefit of a doubt, may have had anything to do in causing deficiencies which have finally culminated in the loss of promotion; nor, if none of the foregoing conditions prevail, do such parents seem to remember anything about the admonitions sent them, from time to time, in the form of periodical reports bearing a low record in scholarship (the cause of which might be justly inferred, in many instances, from a correspondingly low deportment mark showing repeated misconduct, inattention, or neglect), the teacher thus signifying to the parent the improbability of the pupil's advancement, unless great improvement should be made. Now and then, indeed, a parent has been found so very unreasonable as to claim the promo-

tion of a pupil whose scholarship record had not only been uniformly low, but whose conduct had been such as to cause the teacher to feel either the necessity or the propriety of reporting to the parent in regard to him more especially, by use of printed blanks prepared for the purpose, or otherwise.

Very general satisfaction, however, has prevailed among parents with reference to the treatment of their children in regard to promotions; but it is deemed well to set forth somewhat particularly the practice of our schools in the matter of determining promotions, and the relation that the results of the written reviews sustain thereto. The present is also deemed an opportune time for such a statement, because our practice has not before been definitely published, and it appears advisable that it should be so presented that it may be fully understood both by parents and by their representatives, who, from time to time, become members of the School Board.

I deem it important, at the outset, to make clear our form of school organization, and therefore proceed to say that all grades below that of the High School may be seen in any of our larger grammar-school buildings which contain eight schools. A "Lower Primary School" and a "Higher Primary School," also a "Lower Middle School" and a "Higher Middle School," occupy the four rooms on the first floor; and the four divisions of the grammar school, known as "First Division," "Second Division," etc., occupy the four rooms on the second floor. Beginners may enter the "Lower Primary" at the age of five, and they generally remain there a year and a half. Promotions are made in all schools below the upper class of "First Division" (grammar) grade, semi-annually. Thus we have three classes, or three distinct grades, in each primary school; for pupils also remain a year and a half

in the "Higher Primary." In each of the six rooms above the primary schools the work is regularly done in one year, there being two classes, or two distinct grades, to a room. It will be seen from the foregoing that there are nine years in the elementary course; but a few pupils complete it in eight years, or less, by reason of individual promotions at irregular times. Teachers, however, are not allowed to require of pupils below high-school grade any preparation of lessons at home; yet some are annually found ready to enter the High School at thirteen, and occasionally one at twelve.

Principals of grammar schools have no assistant teacher in their rooms, and they are therefore held responsible, in the matter of instruction, for only the grammar-school divisions. The primary and middle schools are under the direction of the superintendent, in the matter of their studies, without intermediate supervision. Principals, however, have charge of the personal conduct of pupils of the lower schools, in general; and sometimes, in particular, as when they are out of order in the hallways, basements, or yard, and whenever assistance is needed by the class-teacher on account of the violent opposition of a pupil.

No formal written tests are submitted primary pupils by their teachers; nor are any required of middle-school pupils unless the questions are furnished their teachers by the superintendent, and he especially requests the application of such tests, — a thing that usually happens once a year, during the semester of his choice; but most middle-school teachers give a set of written reviews of their own construction, or selection, during the semester their classes are not thus tested by the superintendent. They do this of their own accord; because, first, they desire the benefit, for both themselves and their pupils, of those peculiar

revelations which the written review alone reveals in regard to possible defects or neglects in the character of the instruction afforded, or in regard to the otherwise undiscoverable misapprehension, by pupils, of important facts believed to have been thoroughly taught; and, secondly, because they desire that pupils under their charge may have this much practice in writing reviews before entering the grammar school, where they are regularly submitted and critically marked.

Written reviews are required of all grammar and high school classes during each quarter of the school year, or at intervals of nine or ten weeks.

Three weeks are required for the presentation of a set of written reviews, for an exercise in only one subject is allowed during any week; and it is expected, for the most part, that the exercise upon any subject will be completed within the limits of a half-day, and chiefly during the period usually allowed for recitation upon that subject. Language, including an exercise in spelling and one in grammar* (or some exercise in the use of language), may, however, be given upon the same half-day; arithmetic, upon a half-day of the next week; and geography or history, upon a half-day of the following week.

It is thus seen that the regular work of the schools is but slightly, and not harmfully, disturbed by the submission of the formal exercises in written review; for they occur only at long intervals, but one a week, and then the subject is made that of the recitation period during which it occurs. These written reviews are carefully prepared by either the teacher or the superintendent, and the results attained therein by pupils are critically examined

* Or spelling and any one of the other studies, at the discretion of the teacher.

and marked by the teacher. At some subsequent recitation period, regularly allotted the subject, results are returned to the pupils, and while the papers are in their hands a recitation is made covering the essential points treated; and any misunderstood marking is also explained.

The papers are then re-collected and kept on file at least a month after next promotions are made. It is for several reasons believed that important advantages are attained by a regular return to the superintendent of all these re-collected papers, together with a copy of the questions submitted, and my more recent practice has been to require such a return. The retention of pupils' papers until promotions are satisfactorily adjusted is important; because, in cases of difficulty, such papers will usually furnish convincing evidence to the parent that no injustice has been done, when his child, failing of promotion, may claim that others of the class of no better scholarship have been promoted, intimating, if not directly charging, that the teacher has been partial and marked accordingly. When, therefore, the written work upon which the markings are based is accessible, and when a comparison of papers satisfies a parent that not only has the teacher been impartial, but also that his child has no case, the effect is salutary upon all concerned, and feelings of similar dissatisfaction are not likely frequently to arise. When, in such cases, a parent becomes unreasonable, especially when (as is commonly the case, if at all) he becomes so through the undue influence of his child, a satisfactory disposal of the difficulty has usually been found by an offer upon the part of the superintendent to submit a fair and impartial test.

It may be said in conclusion, upon this point, that since it has come to be understood that the written work of pupils is retained until promotions are settled, there have

been very few charges that teachers unfairly mark the scholarship; and in no case is it recalled that any parent who has once investigated the matter has repeated the charge.

From what has been said, it is seen that no formal written reviews are submitted pupils in the primary schools, and, during each period intervening between the times of making promotions, but one set of written reviews is submitted in the middle schools; while, for a like period, only two sets are presented in the grammar schools; and in the High School, likewise, but two sets are given each half-year.

This much, at least, of written review work is deemed desirable as a purely educational factor, but I will not digress to discuss the merits of a subject that has been so generally and broadly considered. Any one caring to know my own views, however, may find them somewhat extendedly given in my last annual report.

The estimates made of results attained in written reviews, as numerically expressed, are recorded and made use of in our schools, above the middle-school grade, as vehicles sufficiently definite and reliable for conveying to parents adequate ideas of their children's progress and standing at school. They are also used as means of assistance by teachers in their efforts to determine promotions impartially.

The form of report which pupils take to their parents, quarterly, gives information in regard to attendance, deportment, and scholarship. Deportment and scholarship are marked upon the following scale: 100 signifies highest; 90, excellent; 80, good; 70, fair; 60, indifferent; 50, poor; and lower numbers denote different degrees of failure. Of course, these numbers may be, and they generally are, regarded as per cents.

To discountenance the tendency among children, however, critically to compare one another's standing, no provision is made on the report card for carrying out the "average" or "rank"; and to cause both a liberal and just interpretation of the numerical representation, the following, addressed to parents and guardians, appears upon the back of the card:

"The per cents given to represent a pupil's standing at school can be justly compared only with those of another in the same class; for it is necessary to a fair comparison that it should be made only with reference to those who are subject to the same treatment, who have exactly the same questions in written reviews, which are submitted in all respects in exactly the same way, and the answers to which are impartially marked from exactly the same standpoint by the same teacher.

"Eighty-six or eighty-seven per cent from one teacher may represent no better standing than eighty per cent from another; because of the difference among teachers in respect to the character of their tests, the manner of submitting them, and the different degrees of stringency or liberality exercised in marking results. Hence the difference of a few per cents, especially when found by a comparison of reports made by *different teachers*, has no certain meaning; and a pupil may have a lower per cent under one teacher than another, though in reality he may have done quite as well when he received the lesser per cent. *It is therefore important that the significance of the scale of marking be carefully observed*, it being noted in particular that any per cent from 90 to 99, inclusive, denotes "excellent"; and any from 80 to 89, inclusive, denotes "good"; and so on down the scale.

"This interpretation of the scale of marking is believed necessary, in order to offset the varying differences among

teachers attendant upon their submission and marking of either recitations or written reviews.”

My standing directions to teachers, in regard to making promotions, are simply as follows :

“ Make promotions on the last half-day of the spring term, also on the last afternoon of the fourth week of the winter term, in accordance with the following: It is designed and desired to make promotions as general as the good of the pupils will warrant; but it is not intended to advance those not sufficiently fitted to enter with profit upon the work of the next class, except as hereinafter provided. You are therefore directed to promote or advance: first, those who are well qualified to enter upon the work of the next class; second, those who have belonged to the same class a year,* and have been commendably regular in their attendance and attentive to their work; third, those two years older than the standard age of their grade, provided they have been quite regular in attendance and have made a laudable effort to do their work properly.

“ (This last direction, however, does not apply to pupils who are retarded in their progress because of their inability to read English sufficiently well to go on with the work of the next class.)

“ Do not feel it necessary to be rigidly governed by any marked designation of scholarship results; but, rather, consider every pupil with reference to individual ability and fitness for advancement, as estimated from all that you may personally know in regard to him.

“ The following may be regarded as standard ages (of first classes) for the various grades: Lower primary, $6\frac{1}{2}$; higher primary, 8; lower middle, 9; higher middle, 10;

* Such will have been over the work for that class, or grade, a second time, really three or four times, if reviews be reckoned.

fourth division, 11; third division, 12; second division, 13.

“Assistant teachers will comply with the decision of their principal in regard to all cases of promotion not provided for in the foregoing, and other teachers will, in doubtful cases, confer with the superintendent.”

In accordance with the foregoing, primary and middle school teachers usually determine a week or two before the time for making the changes whom of their pupils they will promote solely upon their own responsibility; and then they consult the superintendent in regard to the promotion of any about the propriety of whose advancement they entertain much doubt.

The superintendent, if in doubt what to advise after conferring with the teacher, takes occasion to make a personal examination of each of her pupils about whom she has thus consulted. This is done in connection with recitations of the whole class, so that pupils in question shall not be aware of what is being attempted. The recitations for this purpose are upon only special or nearly all subjects in the pupil's curriculum, oral or informally partly written, according to circumstances. These special cases are then determined in accordance with the combined judgment of the teacher and superintendent; or, if the teacher unduly hesitates, the superintendent decides them upon his own responsibility.

After several years' trial of determining promotions in the lower grades upon the recommendation of the teachers, without any dependence upon results attained in formal written reviews, and even without any submission of them in the primary schools, I think that on an average not more than twenty-five per cent of the teachers have felt themselves in need of advice in regard

to special cases. By beginning a week, or more if necessary, before promotion day, the superintendent can personally investigate the few instances demanding special examination, and still have time to inspect the work, somewhat critically, of the entire school of any new teachers.

In our grammar schools the teachers tabulate the average results of the written reviews, arranging them in the order of their rank, the names of the pupils being prefixed. Then, without any regard to the per cents, the teacher looks slowly and very carefully down the list, intent only upon pausing as soon as the name of a pupil is reached who *in the general judgment of the teacher* ought not to be advanced. Above such, if any be found, a line is drawn. All above that line are thus marked for promotion. The teacher then looks below the line to see whether any there named ought to be advanced. Occasionally one or two such are thus found, and designated by the plus sign for promotion. Exceptions of this sort are usually of two kinds: one represents the comparatively new pupil who has not been trained to express himself in writing, but who at recitation has shown a good knowledge of the subjects and has perhaps surpassed all in degree of general improvement; the other represents a pupil who cannot learn to spell, and on this account solely, has an average which would rob him of promotion when he ought not to be kept back.

But how, it may be asked, shall the pupil with a higher average than the two exceptions instanced, who is perhaps first below the division line of the list, be satisfied? He will not question the propriety of advancing the new pupil circumstanced as represented; and, to satisfy him in regard to the other, it may be shown that for the purpose of determining promotions properly by the scale of

marking (a thing which prior to a consideration of his case had not been attempted with his class), the arrangement of his marks as compared with those of the one poor in spelling should be as follows :

Himself.				Studies.		Poor Speller.						
$\frac{1}{4}$	of	52	per cent =	13	Arithmetic	$\frac{1}{4}$	of	88	per cent =	22		
$\frac{1}{4}$	“	60	“	“	15	Language	$\frac{1}{4}$	“	80	“	“	20
$\frac{1}{5}$	“	70	“	“	14	Geography	$\frac{1}{5}$	“	70	“	“	14
$\frac{1}{5}$	“	80	“	“	16	History	$\frac{1}{5}$	“	60	“	“	12
$\frac{1}{10}$	“	88	“	“	9	Spelling	$\frac{1}{10}$	“	52	“	“	5
Average, 67 per cent.						Average, 73 per cent.						

He will now see that “Poor Speller” has an average of 6 per cent more than “Himself,” and his parents at least will recognize the propriety of his having a better knowledge of the more important studies before being advanced; for it would appear that he had not done even fairly* in either arithmetic or language.

If promotions were to be made chiefly dependent upon some standard per cent, the averages of the class list should be made up in the first place in accordance with the *principle* shown in the foregoing “arrangement,” by allowing greater values for the more important studies.

But by the description given before the presentation of the “arrangement,” it is seen how the per cents of attainment in written reviews are used in our schools merely as aids by teachers in enabling them to determine promotions upon their personal estimate of the fitness of each pupil for advancement, from all they may in any way know about him; for no uniform nor any established per cent is taken as a basis for advancement, each teacher being expected to know, to indicate, and to advance the worthy.

* 70 represents a fair attainment.

There is no deviation from the practices already described, except that the averages upon the results attained during the last year in the grammar schools are found in accordance with the principle, previously illustrated, of allowing the greater values for the more important studies. This is done merely because it has been found in practice that when the lists are thus made up, the recommendations made by the various masters for the promotion of pupils to the High School almost invariably find their lowest limit at the same per cent;* and the high school sub-committee, to whom the admission of pupils has been referred with power, have deemed it best to be ready annually to announce some per cent as the basis of admission for the year. Since this basis is yearly made to conform to the lowest per cent attained by any pupil who is recommended for admission to the High School by any master, the effect is the same as that attained by the practice first outlined; and the fact must therefore be apparent, that promotions are practically made throughout all our schools upon the recommendations of the teachers.

HIGH SCHOOL.

The High School has been both unfortunate and fortunate, during the past year; unfortunate in again undergoing a change in its principalship, and fortunate in having the position so promptly and so worthily filled.

The selection of Mr. Goodwin for the principalship of the High School at Lawrence, after an inspection of his work here, sufficiently attests his merits; and Lawrence thereby again compliments the character of Manchester's teachers, by so soon selecting from among them another master at such an increase of salary as to secure his services.

* Without consultation of the masters with one another.

Principal *Somes* has had charge of the High School only one term; but by his gentlemanly and agreeable courtesies, by his evident understanding of the essential characteristics necessary for a good school, and by his quiet and consistent determination to secure them, he seems already to have largely won the confidence and co-operation of both teachers and pupils in his effort to attain a high ideal for the school. I shall be greatly surprised if his continued devotion to the working out of his plan does not secure the hearty co-operation of parents and much improve the school.

The following modest report from Mr. *Somes* is self-explanatory:

“MANCHESTER HIGH SCHOOL,
December 21, 1888.

Mr. William E. Buck, Superintendent of Schools:

SIR,—In accordance with your request, I submit a report of the condition of the High School.

The number of pupils attending the last term was one hundred and ninety-one. Of these, forty-four were in the first, or senior, class; thirty-two in the second class; fifty-two in the third class; and sixty-three in the fourth class, which entered the school at the beginning of the fall term.

The attendance has been good, though the percentage has been considerably reduced by the prolonged absence of a few scholars who have been kept out of school by illness. The school is now as large as can well be accommodated in the building. We have had, during the last term, more scholars than desks in the assembly-room, and no more desks can be put into that room.

The school is very well supplied with apparatus of various kinds for use in teaching, though some pieces are needed, for which I have placed a request in the hands of the sub-committee. Nothing less than a physical laboratory will enable us to teach physics in the most approved way.

A special teacher of elocution is needed in the school, and there is work which cannot be well done except by such a teacher. If it is not possible to employ a teacher of elocution all the time, cannot some city near Manchester be found that would unite with this city in paying the salary of a competent teacher who would teach a portion of the time in each place?

The regular work of the school seems to me to be done in a very satisfactory way, and in some of the general exercises we have made changes that will, we expect, bring more satisfactory results. We have done a reasonable term's work in all departments, and the general tendency of the school in work and deportment has been towards improvement.

Respectfully,

ALBERT SOMES, *Master.*"

TRAINING SCHOOL.

The city Training School for teachers has been in good condition throughout the year. There have been twenty different sub-teachers (see Appendix, page K) in the school within the year. Of these, six graduated in January and two in June, so the school still has its full quota of twelve; and of the eight graduated during the year, seven have already been elected as regular teachers.*

Miss Wing is a competent, faithful, and painstaking principal; and the city is fortunate in having retained her services, through the persuasion of the sub-committee of the school; for she was solicited to accept a similar position in a thriving Rhode Island city at a tempting increase of salary.

I am glad to feel that the time has apparently passed when it becomes necessary to show the utility of this

* The eighth has since been so elected.

school, in order to perpetuate its distinctive form of organization.

“MANCHESTER TRAINING SCHOOL FOR TEACHERS,
December 31, 1888.

Mr. William E. Buck, Superintendent of Schools :

SIR,—In accordance with your request, I submit a report of the work of the Manchester Training School.

September 12, 1887, I took charge of your school. It consisted of one hundred and fifty pupils and six pupil-teachers. These teachers had partly finished the course of instruction and formed the senior class. In order that I might become better acquainted with my new surroundings, the junior class, seven in number, was not admitted until October, thus making me responsible for thirteen pupil-teachers.

With this organization, the senior teachers, who were expected to graduate the following February, could give no time in school hours to study or recitations upon the professional subjects necessary to complete their course. The junior teachers, new to the work, must receive instruction, both in subjects they were to teach and in methods of teaching, before they could have any work with the children. Time was lost, and the organization seemed to be not an advantageous one in many ways.

After consultation, the superintendent and committee consented to the trial of the following plan: Of the six teachers who graduated in February, 1888, two were retained in the school at a salary of twenty dollars a month. These, with two juniors who were promoted, formed a new senior class. The four remaining juniors formed a middle class, and a new junior class of four entered.

The course for the pupil-teachers includes training and instruction for one year and a half. With the present arrangement, a class will graduate in February and one in June of each year, and a new class will enter at these times. There will then be, at the beginning of each term,

eight teachers who are in some degree familiar with the workings of the school. Little more than the usual break incidental to closing a term and beginning a new one is felt. If after a fair trial any appear to lack ability to become a teacher, she is advised to sever her connection with the school, and may be compelled so to do, at the discretion of the committee.

The normal work is to be completed the first year. The senior teacher is to be responsible, as far as practicable, for the room she is in charge of. She is assisted by a teacher from the middle and one from the junior classes. To secure practice in each of the grades, the work of the junior teacher is changed to a different room at the middle of the fall term, also at the time of each promotion. Substitutes are taken from the middle class, in order to secure the best results for all concerned.

People who are not familiar with the work of the school fear that the children are being practiced upon by inexperienced teachers. The fear is groundless. A pupil-teacher is not given a class until she has had instruction in methods, observed the teaching of the seniors, criticised and reported work done by the principal with the children; and afterwards she is under the constant supervision of the principal. The children enjoy the enthusiasm of these young teachers fresh from the High School, and respond accordingly. Means are constantly employed to save loss of time and energy.

A plan of work for the week is made out by each pupil-teacher, and criticised by the principal. One hour and a half a day is used in giving instruction to the pupil-teachers in subject-matter, methods, and planning work. The principal devotes the rest of the time to supervising, criticising, and in actual teaching with the children. The object of the school is to fit teachers for the work of organizing, governing, and teaching in the public schools.

The course of study for the normal class is as follows (forty-five minutes a day being devoted to recitation):

First Six Months. Reading, Writing, Language, Oral Instruction, Elementary Botany, Elementary Physiology and Hygiene, with reference to effects of stimulants and

narcotics, Elementary Geography, Arithmetic, Drawing, Clay Modeling, Care of Schoolroom and Children, Reading of Educational Papers and Magazines, followed by discussions of matter read.

Second Six Months. Psychology, with reference to the Development of the Child-mind, Art of Teaching, School Government, School Organization, History of Pedagogy, School Laws of New Hampshire, Reading of Educational Papers and Magazines, followed by discussion of matter read.

Third Six Months. Reading of Educational Papers, Magazines, Educational Writings, followed by discussion of matter read; Care of Registers, Reports for Month, Term, and Year.

CAROLINE E. WING, *Principal.*"

EVENING SCHOOLS.

There has been an effort to improve the evening schools. A few years since the different sexes were housed in separate buildings. This change reduced the numbers, but secured an improved class of attendants. The greatest annoyance connected with the evening schools has been the early withdrawal of a large part of the annual enrollment, and the irregularity in attendance of those pretending subsequent membership; so largely, indeed, have been these disturbances that the average attendance has never been more than one fourth or one third of the enrollment. The speedy large withdrawals were attributed to unsuitable seating arrangements, the attempt to accommodate adults at primary and middle school desks. This defect was remedied at the Lowell-street and Clinton-street houses; but there has not been, nevertheless, much difference among the schools, as a whole, in respect to the relative amount of withdrawals. It was thought that perhaps by the employment of teachers constantly engaged in the work, and consequently more familiar with the

better methods of instruction, the evening-school pupils could be enough interested to become regular in attendance; but even by the employment of some of our best day-school teachers, the evil of irregular attendance has not been much reduced.

We are therefore forced to the conclusion, in the light of these facts and some others ascertained by inquiries of the teachers, that the evils mentioned are largely due to outside influences, and chiefly to the habits formed by such as have been inclined either early to withdraw or irregularly to attend. Such, rather than seek opportunities for self-improvement, are inclined to waste their time and substance in parading the streets, attending cheap shows, and squandering their earnings in less reputable places. For the most part, they never attended our day schools, nor do they even understand much of our language. How much the greater, then, is their need of the advantages of the evening schools, where the better element of their own nationality learns both how to read and make a proper use of time.

The question, then, that naturally arises is, "What can the School Board do toward preventing the formation of the improper habits named, upon the part of the youth of this city who are so circumstanced that they are likely to be gradually and unconsciously led into the evil ways of those with whom they associate in their employment?" I reply by advising that all children *over fourteen** years of age, for the time being not in attendance upon the day schools, may attend the evening schools. Those between thirteen and fourteen are required by law to attend school twenty-four weeks annually before they can be employed in any manufacturing establishment; while those between fourteen and sixteen need only attend twelve weeks before

* None under sixteen heretofore admitted to the evening schools.

such employment. Those between fourteen and sixteen may therefore work in the mills forty weeks out of fifty-two. The impairment to habits of thought and conduct inculcated by the school, which is wrought upon unsophisticated children by acquaintances formed in the mill and upon the street, who are often only too fond of opening youthful eyes to certain ways of the world, can be fully realized only by those who have been teachers of the class of children most largely employed in the mills, both before and after their employment there.

The hours of daily employment for mill operatives are somewhat less than formerly; and my more familiar acquaintance with the extent to which the youth of our city are allowed upon the streets during the long winter evenings, and the knowledge I have of the conduct of many while there, cause me to conclude that for them to attend the evening schools would not be worse for their health than their accustomed course of conduct. By attendance upon the evening schools they would probably thereby be withdrawn from many of the evil influences of the street; and if admitted before improper habits become characteristic, they would be likely to attend several winters, constitute the more stable portion of the evening schools, and considerably extend their own education, which is frequently quite meager with many of this class, even at the age of fourteen, owing to the fact that they often first enter our day schools at the age of eight, ten, or twelve, from countries where the English language had not been taught them.

The evening schools have been improved since their re-opening, last fall, by a gain in the average efficiency of the teachers employed, and by the use of free text-books, which have made better classification and improved methods of instruction possible.

These schools have also been more economically conducted than heretofore, as another consequence of the better classification, by lessening the number of teachers required. There may also be further improvement in this direction next winter, by uniting the two schools for boys, and locating the one for boys (who live both sides of the river) in the four upper rooms at the Franklin-street house. The girls' school on Spring street could then be moved to the Lowell-street house, and the girls' school on School street to the Clinton-street house. By these changes all the evening schools would occupy rooms where the seats are sufficiently high for adults, and no more of the rooms occupied by day schools would thereby be used for evening schools than by the present arrangement.

The most important as well as the most difficult problem for the further improvement of the evening schools, yet remains to be solved. This is, how to increase the ratio of the average membership to at least seventy per cent of the entire enrollment, and secure commendable regularity of attendance.

The following plan is the best that I can now suggest. Let those who may wish to attend the evening schools each deposit with the principal, at time of registration, twenty-five cents, with the understanding that the money shall be forfeited to the evening-school fund: *first*, if the pupil fails to enter the school within a week after registration or withdraws therefrom at any time except at the close of a school month; *second*, whenever a pupil has been five times absent, or ten times tardy, for other reasons than providential detention, the same to be settled to the satisfaction of the principal. Forfeiture of the deposit should constitute forfeiture of membership in the school; and no re-instatement of a pupil who has for-

feited his membership should be allowed to occur, unless he shall first make another similar deposit subject to like conditions.

Such small fines may appear trivial; but it is only desired to correct the prevailing evils relating to the attendance upon the evening schools, and in doing this care must be exercised not to provide such conditions as will deter the poor and deserving from attendance. But without some effectual plan for approximately determining early in the term the number that will be in attendance upon the evening schools, the city is likely to continue being put to much unnecessary expense in providing for the many who register and attend with great irregularity only for a few weeks, and then withdraw without giving notice. Such attendance results in no profit to the individual, and has a highly injurious effect upon the general attendance. The excessive enrollment, moreover, makes necessary the maintenance of a large corps of teachers until it can be ascertained what will be the approximate average attendance. The plan that I have outlined, would, I think, speedily determine this, and also effect regularity of attendance. If so, the evening schools would thereby not only be less expensive, relatively, but the good they could do under the more favorable conditions would be of still much greater account.

For statistics pertaining to the evening schools, see the Appendix, pages G, H, and I.

TEACHERS.

The whole number of different teachers regularly employed in the day schools, for the year 1888, has been eighty-five. Their respective positions may be learned from the "Attendance Table" in the Appendix (pages C,

D, E, and F); but the various changes made within the year can be more readily understood by an inspection of the arrangement showing "Changes in the Corps of Teachers" (Appendix, page K).

Nine teachers have left the schools during the year by resignation, one by expiration of term of service, and two have died. One school on Lowell street was discontinued, and the teacher transferred to the Spring-street house. Ten of the other positions were duly filled by the election of new teachers, two males and eight females. The latter are all graduates of our city Training School. The only present vacancy is at the Stark District school.*

It is gratifying to feel, especially considering the excellence of several of the teachers who have withdrawn during the year, that you have succeeded in filling the vacancies in a way that has strengthened rather than weakened the corps of teachers as a whole. Without the right teacher in a school, there is no power to make it good.

OBITUARIES.

By the fell destroyer of all mortals, two worthy teachers were stricken down last June in the midst of their labors; and by the deaths of Mrs. Mary J. Fife and Miss Lenora C. Gilford the city was summarily and sorrowfully deprived of the duly appreciated services of two faithful servants.

Mrs. Fife came to the city when a young girl, and obtained her education in our schools, including a course at the High School. She taught, at a very early age, several of the city suburban schools, then studied at Bradford (Mass.) Academy, after which she resumed, and for many years followed, teaching in our graded

* Filled at opening of the new year.

schools until the time of her death. She was an excellent teacher of several subjects, and a noble-hearted, worthy woman. Her school usually took a prominent part in the Lincoln-street-school exhibitions, and the patrons of that school will long remember with great satisfaction the fine physical exercises of her pride, the "Third Division."

Miss Gilford was a native and constant resident of this city. She passed through all grades of our city schools, including the city Training School for teachers. In her examination for a teacher's certificate she showed herself an excellent scholar, as also in all her subsequent work as a teacher. She first taught primary classes, and therein early exhibited both great tact in management and a high degree of skill in teaching. So successful, indeed, was she, that it was not long before she was promoted to the first assistantship at the Franklin-street school. There she also gave excellent satisfaction. Miss Gilford was both a student and an earnest and painstaking worker. She devoted her time, thought, and, as it might appear, even her life, to her chosen profession.

The following, presented by the sub-committee of the Franklin-street school, and unanimously adopted by the School Board, was abundantly deserved:

"WHEREAS, It has pleased God to remove Miss Lenora C. Gilford from Manchester's corps of teachers,

Resolved, That in her death we deeply deplore the loss of a highly accomplished and successful teacher, whose valuable work in the several positions occupied by her is fully appreciated by the members of this body; and that we hereby extend our most profound sympathy to the family of the deceased."

CONCLUSION.

Thanking you, gentlemen of the School Board, for your cordial support of my work, the patrons of the public schools for numerous kindly courtesies, and the teachers for their friendly and earnest co-operation for the common good, I respectfully submit this report.

WILLIAM E. BUCK,
Superintendent.

December 27, 1888.

APPENDIX.

- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. PUPILS.
- VI. TRUANCY.
- VII. FINANCE.
- VIII. SCHOOL YEAR, 1888.
- IX. HIGH SCHOOL GRADUATING CLASS.
- X. ORGANIZATION OF COMMITTEES, 1889.
- XI. LIST OF TEACHERS, 1889.
- XII. SCHOOL YEAR, 1889.

APPENDIX.

STATISTICS.

I. — POPULATION.

Population of the city by last census, 1884	. 37,600
Estimated population, 1888	. . . . . 40,000
Legal school age, 5 to 21.	

II. — SCHOOLHOUSES.

Number of schoolhouses in use	. . . . . 23
Number of schoolhouses not in use	. . . . . 1

(Bridge-street house, corner of Union.)

Number of schoolrooms used for day schools 78
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(Four of the same, and six others, used for evening schools. Rooms unoccupied by city for day schools are, two at Spring-street house, three at Lowell-street, three at Beech-street, and two at Bridge-street, the last two being unfit.)

Number of rooms used for High School classes	. . . . . 6
Number of rooms used for Grammar schools	. . . . . 20
Number of rooms used for Middle schools	. . . . . 15
Number of rooms used for Primary schools	. . . . . 29
Number of rooms used for Partially Graded schools	2
Number of rooms used for Ungraded schools 6

III. — SCHOOLS.

(All for both sexes.)

Number of High schools 1
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Number of combined Grammar and lower grade (Middle and Primary) schools	7
Number of combined Middle and Primary schools (Merrimack-street or Training School)	1
Number of schools all Primary grade	6
Number of Partially Graded schools	2
Number of Ungraded schools	6

IV. — TEACHERS.

Male teachers in the High School	2
Female teachers in the High School	4
Male teachers in the Grammar schools	5
Female teachers in the Grammar schools	15
Female teachers in the Middle schools	15
Female teachers in the Primary schools	26
Female teachers in the Partially Graded schools	3
Female teachers in the Ungraded schools	6
Special teachers: One male in music the entire year, (four days a week)	1
Average number of male teachers*	7
Average number of female teachers	69
(No increase or decrease from last year.)	
Male teachers in the Evening schools	4
Female teachers in the Evening schools	15
Average number of male teachers in the Evening schools	4
Average number of female teachers in the Evening schools	7
Male teachers in the Evening Drawing schools	4
Average number of male teachers in the Evening Drawing schools	2

* Exclusive of the special teacher.

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1888.

SCHOOLS.	Whole No. Enrolled.	Whole No. Belonging.*		Average No. Belonging.	Average Daily Attendance.	Percent of Daily Attendance.	TEACHERS.
		Boys.	Girls.				
High School.....	257	86	110	185	176	95.1	{ Edward R. Goodwin, Master, 2 terms. Albert Somes, Master, 1 term. G. I. Hopkins, Sub-master. Lucretia E. Manahan, Mary A. Buzzell, } Assistants. Rocilla M. Tuson, Mary Stanton,
GRAMMAR SCHOOLS.							
Franklin-street, First Division	46	16	17	26	25	96.1	{ F. C. Baldwin, Master. Lenora C. Gilford, +2 terms. } Assistants.
“ Second “	43	14	18	27	25	92.6	{ Anna O. Heath, 1 term, Jennie M. Chandler, Carrie E. Reid, } Assistants.
“ Third “	69	21	18	32	31	94.9	
“ Fourth “	70	24	28	42	40	95.2	
Franklin-street totals .....	.....	75	81	127	121	95.0	
Spring-street, Third and Fourth Divisions.....	76	26	32	39	35	91.2	{ Anna O. Heath, 2 terms. Lizzie P. Gove, 1 term. Frank S. Sutcliffe, Master. Annie W. Patten, Mary J. Fife, + 2 terms, } Assistants. Belle R. Daniels, 1 term, Helle R. Daniels, 2 terms, Mary F. Barnes, 1 term,
Lincoln-street, First Division.....	69	27	30	44	42	95.4	
“ Second “	63	18	31	39	37	94.9	
“ Third “	68	20	21	39	37	94.9	
“ Fourth “	80	24	29	49	45	91.8	
Lincoln-street totals.....	.....	89	111	171	161	94.0	
Ash-street, First Division.....	68	18	27	37	35	94.6	{ J. W. Stetson, Master. Annie A. Webster, \$ } Assistants. Mary E. Bunton, Bertha L. Dean,
“ Second “	69	25	23	41	38	92.7	
“ Third “	75	25	28	48	45	93.7	
“ Fourth “	81	19	38	48	44	91.7	
Ash-street totals.....	.....	87	116	174	162	93.0	

Main-street, First Division.....	46	15	18	33	31	94.3	{ J. Edward Pickering, Master, 2 terms. George Winch, Master, 1 term.
" Second "	61	16	29	35	32	91.4	Cora M. Dearborn, { Assistants. Mary J. Hickey, { Barbara B. Joy, }
" Third "	72	25	25	43	38	88.4	
" Fourth "	84	28	29	44	40	90.9	
Main-street totals.....		84	101	155	141	91.0	
Webster-street, First and Second Divisions.....	47	14	21	30	29	96.6	William F. Gibson, Master.
" Third and Fourth "	49	23	24	35	33	94.3	Alta C. Willand, Assistant.
Webster-street totals		37	45	65	62	95.0	
Bakersville, Grammar grades.....	36	15	14	23	21	91.3	Lizzie A. Burns.
GRAMMAR-SCHOOL TOTALS	413	500	754	703	703	93.2	
MIDDLE SCHOOLS.							
Webster-street, Higher and Lower.....	41	13	14	28	25	89.3	{ Maria N. Bower, 2 terms. Eva F. Tuson, 1 term.
Ash-street, Higher.....	67	24	24	42	38	91.2	Nancy S. Bunton.
" Lower	66	21	25	36	33	91.7	Kittie J. Ferren.
Spring-street, Higher.....	60	16	24	32	29	90.6	{ Lizzie P. Gove, 2 terms. Emma L. McLaren, 1 term.
" Lower	71	29	20	39	35	89.7	Fannie D. Moulton.
Lincoln-street Higher.....	89	26	33	50	45	90.0	{ Mary F. Barnes, 2 terms. Nettie F. Ainsworth, 1 term.
" Mixed.....	78	34	20	44	40	90.9	{ Nettie F. Ainsworth, 2 terms. Mary E. Lord, 1 term.
" Lower.....	73	30	24	45	43	93.5	{ Eva F. Tuson, 2 terms. Cora B. Gilford, 1 term.
Merrimack-street, Lower.....	66	28	24	38	35	92.1	C. E. Wing, Principal.
Franklin-street, Higher	67	28	20	38	35	92.1	C. Augusta Abbott.
" Lower.....	49	15	15	24	21	87.5	H. G. Flanders.
Main-street, Higher.....	80	25	29	43	37	85.4	Flora M. Senter.
" Lower.....	81	27	32	48	42	87.5	Ellen E. McKean.
" Lower.....	69	22	27	42	37	88.1	Josephine H. Newton.
Bakersville, Higher and Lower.....	41	19	16	24	21	87.5	Lelia A. Brooks.
MIDDLE-SCHOOL TOTALS	357	347	574	516	516	89.9	

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
 † Miss Gilford was absent the greater part of the spring term, and her place supplied by her sister, Cora B.
 ‡ Mrs. Fife was absent the greater part of the spring term, and her place supplied by Miss Mary E. Lord, who had previously had temporary charge of a class on Clinton street from Main street.
 § Miss Webster was absent the greater part of the spring term, and her place supplied by Miss Kate Halliday.

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS. — *Continued.*

PRIMARY SCHOOLS.	Whole No. Enrolled.	Whole No. Belonging.*		Average No. Belonging.	Average Daily Attendance.	Per cent of Daily Attendance.	TEACHERS.
		Boys.	Girls.				
Amoskeag, Higher and Lower.....	73	40	27	40	35	87.5	Mary G. Tynan.
Webster-street, Higher and Lower	39	23	16	24	21	87.5	{ Carrie I. Stevens, 2 terms. Lettie M. Smith, 1 term.
Blodget-street, Higher	61	18	26	33	28	84.8	Gertrude H. Brooks.
" Lower	71	28	36	37	33	89.2	Georgianna Dow.
Ash-street, Higher.....	74	18	33	49	45	91.8	Mary F. Nutt.
" Lower.....	85	33	45	45	41	91.1	Clara E. Woods.
Lowell-street, Higher.....	68	25	18	19	17	84.2	Helen M. Morrill.
" Lower.....	53	25	26	17	16	90.9	Alice E. Page, 2 terms.
Spring street, Higher.....	75	33	23	44	40	88.8	Nellie I. Sanderson.
" Lower.....	67	27	32	36	32	88.8	Lucia E. Esty.
Spring-street, Lower.....	55	28	24	33	26	78.8	{ Belle M. Kelley, 1 term. Emma L. McLaren, 1 term.
Wilson Hill, Lower.....	66	23	27	42	38	90.4	{ Alice E. Page, 1 term. Huldah C. Graupner.
" Lower.....	85	46	31	41	37	87.8	Ella Hope.
Lincoln street, Higher.....	74	29	20	40	40	92.5	Georgia A. Wymen.
Beech-street, Lower.....	56	27	25	29	25	86.2	Augusta S. Downs.
Merrinack-street, Higher.....	53	21	13	25	22	90.3	{ C. E. Wing, 1 term. } Principal.
" Lower.....	84	28	12	35	31	88.6	{ } Nellie M. James.
Franklin-street, Higher.....	78	34	36	30	26	86.3	Ella F. Sanborn.
" Lower.....	63	24	29	40	36	90.0	Nettie C. Woodman.
" Lower.....	83	34	40	37	32	86.5	Mary W. Mitchell.
Main-street, Higher	81	20	28	42	36	85.7	{ Susie H. Frame, 2 terms. Mary J. Walsh, 1 term.
School-street, Higher and Lower	72	32	30	45	40	88.8	Kate T. Clarke.
" Lower.....	84	24	25	48	41	85.4	Mary A. Southard.
" Lower.....	88	49	35	47	39	83.0	
" Lower.....	89	38	47	43	35	51.4	

South-Main-street, Higher.....	57	24	18	38	35	87.8	Della E. Haines.
" Lower.....	61	30	29	36	31	86.0	Sarah B. Paige.
Bakersville, Higher.....	48	12	14	26	23	88.5	Izetta S. Locke.
" Lower.....	66	27	37	37	33	89.6	Edith M. Stebbins.
PRIMARY-SCHOOL TOTALS.....	820	802	1058	930	87.9		
PARTIALLY GRADED SCHOOLS.							
Amoskeag, Grammar and Middle.....	52	13	23	34	30	88.2	Etta J. Carley.
Hallsville, all grades.....	60	31	26	43	37	86.1	{ Olive J. Randall (Higher classes). { Susie G. Woodman (Lower classes).
PARTIALLY GRADED SCHOOL TOTALS.....	44	49	77	67	87.0		
UNGRADED SCHOOLS.							
Stark District.....	24	4	18	15	12	80.0	{ F. Maude Joy, 2 terms. { Maria N. Bower, 1 term.
Goite's Falls.....	67	32	35	43	41	95.3	{ Georgie A. Nute. { Ella F. Barker.
Harvey District.....	32	13	17	16	15	93.7	{ Lillian C. Hall, 2 terms. { Kate Townseud, 1 term.
Youngsville.....	38	20	14	22	20	90.9	{ Nina B. Croning, 2 terms. { Genevieve B. Knight, 1 term.
Webster's Mills.....	15	7	8	10	8	80.0	{ Olive A. Rowe.
Mosquito Pond.....	16	10	6	14	12	85.7	
UNGRADED-SCHOOL TOTALS.....	86	98	120	108	90.0		
Aggregate totals for 1888.....	†	1,806	2,768	2,500	90.3		
Aggregate totals for 1887.....	†	1,817	2,711	2,408	90.8		

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
 † Totals here would involve a multitude of errors. Many pupils would be reckoned two or three times, on account of numerous transfers from one school to another, made at the July promotion, at times of removal to other districts, etc., etc.

DAY SCHOOLS.

The following is a summary of the attendance upon the several grades of public day schools for the year ending December 14, 1888 :

SCHOOLS.	Whole number different pupils.		Average No. belonging.	Average daily Attendance.	Per ct. of daily Attendance.
	Boys.	Girls.			
High.....	86	110	185	176	95.1
Grammar.....	413	500	754	703	93.2
Middle.....	357	347	574	516	89.9
Primary.....	820	802	1,058	930	87.9
Partially Graded.....	44	49	77	67	87.0
Ungraded.....	86	98	120	108	90.0
Totals, 1888.....	1,806	1,906	2,768	2,500	90.3
Totals, 1887.....	1,817	1,853	2,711	2,468	90.8

EVENING SCHOOLS.

TABLE SHOWING AVERAGE ATTENDANCE, 1888.

MONTHS.	Lowell-st. School.	Spring-st. School.	School-street School.		Clinton-st. School.	Goffe's Falls.	
	Males.	Females.	Males.	Females.	Males.	Males.	Females.
January.....	30	20	10	10	..	9	5
February.....	23	13	10	10	..	8	5
November....	65	59	..	15	19	7	7
December....	50	43	..	14	19	7	7

	1888.	1887.
Number of evenings open	70	114
Number in attendance ten evenings or more .	456	382
Aggregate average attendance	116	98
Average number of teachers in service . . .	11	11

See report of the superintendent, under "Evening Schools," for further information in regard to them.

TEACHERS.

Charles E. Cochran, Principal of Lowell-street school, for boys.

Assistants, — Anna J. Dana, Cora F. Sanborn, Etta S. Dana, and Edith M. Stebbins.

J. H. Campbell, Principal of Spring-street school, for girls.

Assistants, — Lizzie D. Hartford, Alice H. Boyd, Emma J. Ela, Maggie Linen, Alice M. Stebbins, and Nellie M. Atwood.

Frank C. Livingston, Principal of School-street school, for both sexes.

Assistants, — Annie E. McElroy, M. Alma Fracker, and Sarah B. Paige.

Fred C. Baldwin, Principal of Clinton-street school,* for boys.

Assistant, — Mary A. Southard.

Georgie A. Nute, teacher of the Goffe's Falls school.

* In existence during the fall only.

EVENING DRAWING SCHOOLS.

AVERAGE ATTENDANCE, 1888.

MONTHS.	Machine Drawing Class.	Architectural Drawing Class.	Total.
January	29	15	44
February.....	28	17	45
November.....	34	15	49
December	29	13	42

	1888.	1887.
Number of evenings open	97	36
Aggregate average attendance	45	56
Average number of teachers	2	4

TEACHERS.

John M. Kendall, Henry A. Herrick, Henry W. Allen, and Alphonso H. Sanborn.

GENERAL SUMMARY.

The following table presents the main features of interest pertaining to the attendance upon the public schools for the last ten years :

DATE.	Enrolled in Public Day Schools.	Whole No. Belonging.		Average Number Belonging.	Average Daily Attendance.	Percentage of Daily Attendance.	Average Attendance at Evening Schools.*	Graduated from Grammar Schools.*	Passed City Schools for High.	Entered High from City Schools.†	Graduated from High School.	Average No. Teachers Employed.
		Boys.	Girls.									
1879....	3,798	1,924	1,874	2,859	2,648	92.6	145	77	77	52	48	71
1880....	4,136	2,166	1,970	2,970	2,727	92.0	91	75	75	61	38	77
1881....	4,235	2,200	2,035	2,858	2,602	91.0	110	64	62	54	39	75
1882....	4,095	2,086	2,009	2,957	2,712	91.7	164	76	65	57	53	73
1883....	4,062	2,061	2,001	2,848	2,612	91.4	103	97	75	66	27	71
1884....	3,918	1,924	1,994	2,872	2,645	92.1	95	85	71	49	38	72
1885....	3,806	1,891	1,915	2,725	2,430	90.6	96	98	89	71	35	72
1886....	3,632	1,812	1,820	2,698	2,475	91.9	79	78	71	53	42	74
1887....	3,670	1,817	1,853	2,711	2,468	90.8	98	98	95	61	42	76
1888....	3,712	1,806	1,906	2,768	2,500	90.3	116	88	80	58	45	76

*Including Grammar classes in suburban schools.

† Usually some pupils have annually entered from other schools. This year one has so entered.

CHANGES IN CORPS OF TEACHERS.

The whole number of different teachers regularly employed in the day schools during the year has been 85. Their respective positions may be learned from the attendance table on pages C, D, E, and F of the Appendix, but the various changes made within the year can be more readily understood by an inspection of the following:

Teachers.	Date of effect of resignation.	Teachers.	Date of effect of resignation.
Belle M. Kelley.	Mar. 24.	F. Maud Joy.	June 30.
Lenora C. Gilford.*	June 23.	Lillian C. Hall	June 30.
Mary J. Fife.	* June 26	Nina B. Croning	June 30.
Edwin R. Goodwin.	June 30.	J. Edw'd Pickering†	Aug. 1.
Carrie I. Stevens.	June 30.	Mary E. Lord.	Dec. 10.
Susie H. Frame.	June 30.	Maria N. Bower.	Dec. 15.

* Died. † Expiration of term of service.

Teachers.	Date of beginning service.	Teachers.	Date of effect of transfer.
Emma L. McLaren.	April 16.	Maria N. Bower.	Sept. 10.
Albert Somes.	Sept. 10.	Eva F. Tuson.	Sept. 10.
George Winch.	Sept. 10.	Anna O. Heath.	Oct. 8.
Cora B. Gilford.	Sept. 10.	Lizzie P. Gove.	Oct. 8.
Lettie M. Smith.	Sept. 10.	Emma L. M'Laren.	Oct. 8.
Mary J. Walsh.	Sept. 10.	Alice E. Page. ||	Oct. 8.
Kate Townsend.	Sept. 10.	Belle R. Daniels.	Oct. 8.
Genevieve B. Knight.	Sept. 10.	Mary F. Barnes.	Oct. 8.
Mary E. Lord. †	Oct. 8.	Nettie F. Ainsworth.	Oct. 8.
Theodora Richards'n. §		Susie G. Woodman	Dec. 10.

TRAINING SCHOOL SUB-TEACHERS, 1888.

Cora B. Gilford. **	Inez M. Warren. ††
Genevieve B. Knight. **	Abbie R. West. ††
Emma L. McLaren. **	Emma B. Abbott. ††
Theodora Richardson. **	Alverta P. Barrett. ††
Lettie M. Smith. **	Maude L. Kent. ††
Mary J. Walsh. **	Millie S. Morse. ††
Nellie M. Atwood. ††	Mabel J. Brickett. §§
Kate Townsend. ††	Annie B. Goodwin. §§
Nettie B. Fogg. ††	Emma M. Streeter. §§
Lillian Little. ††	Bertha A. Young. §§

† Had temporary charge of a class in early part of the year, on Clinton street. Substituted at Lincoln street, subsequently; elected there October 5.

§ Elected December 7, to begin service at Hallsville at opening of the new year.

|| Miss Page's school on Lowell street was discontinued October 5.

** Graduated January 27.

†† Entered September, 1887, and expected to graduate January 25, 1889, except that Misses Atwood and Townsend graduated June 29, having taught before entering.

‡ Entered February 6, 1888.

§§ Entered September 10, 1888.

VI.—WORK OF TRUANT OFFICER.

DATE.	Absentees reported from.		No. voluntarily returned to.		No. reported caused to attend.		No. found sick and unable to attend.	No. otherwise unavoidably detained.	No. not found at all for	
	City Schools.	Parochial Schools.	City Schools.	Parochial Schools.	City Schools.	Parochial Schools.			City Schools.	Parochial.
January.....	23	67	1	11	18	36	14	8	..	..
February.....	49	53	3	1	38	44	7	8	..	1
March... ..	60	48	8	7	30	27	26	9	..	..
April.....	19	22	2	1	14	14	8	5	..	1
May... ..	23	50	5	2	13	39	4	9	..	..
June.....	30	50	5	1	16	38	16	4	..	1
September....	17	23	..	3	6	20	5	5	..	1
October.....	23	19	1	..	12	15	7	7	..	..
November....	28	31	5	..	14	25	11	3	..	1
December....	24	14	3	..	12	9	8	4	2	..
Total.....	296	377	33	26	173	267	106	62	2	5

DATE.	Truants not enrolled found on streets.	No. truants caused to attend.		No. of school age found on streets in school hours.	No. of parents visited.	No. temporarily confined at police station.	No. of employment certificates granted.
		City Schools.	Parochial.				
January.....	17	8	9	56	88	5	112
February.....	14	7	7	126	139	..	23
March.....	16	8	8	161	187	3	37
April.....	12	4	4	74	115	1	63
May.....	3	4	5	93	100	4	88
June.....	12	2	2	70	90	4	33
September.....	6	..	..	42	56	2	63
October.....	..	..	3	55	51	3	100
November.....	6	1	7	81	99	4	38
December.....	13	..	6	48	72	3	63
Total.....	99	34	51	806	997	29	620

VII. — FINANCE. — APPROPRIATIONS FOR TEN YEARS.

YEAR.	Salaries Of Teachers.	Books and Stationery.	Care of Rooms.	Contingent Expenses.	Fuel.	Furniture and Supplies.	Printing and Advertising.	Repairs.	Evening Schools.	Tuition.	Totals.
1879.....	\$36,253.39	\$601.12	\$2,400.00	\$500.00	\$3,269.70	\$773.36	\$375.00	\$3,100.81	\$1,213.13	\$707.59	\$48,486.51
1880.....	38,500.00	600.00	2,500.00	1,075.00	3,004.54	1,077.25	450.00	5,175.05	1,987.77	598.08	54,369.61
1881.....	39,171.40	669.91	2,710.27	1,001.14	3,312.56	1,017.17	724.62	5,379.71	1,374.75	795.65	56,097.08
1882.....	40,755.69	610.02	2,815.38	977.97	3,265.09	1,271.93	658.57	6,700.76	1,784.95	*1,009.02	59,849.38
1883.....	39,190.73	682.04	2,986.09	901.43	3,411.54	1,630.38	781.62	3,589.78	1,193.08	†262.57	54,629.26
1884.....	39,065.24	397.27	2,989.17	1,881.38	3,473.80	1,508.05	780.08	4,048.98	1,496.66	234.63	53,325.23
1885.....	40,472.82	600.41	3,120.01	1,196.02	3,029.80	1,000.04	829.30	3,278.16	1,654.28	316.58	55,497.42
1886.....	41,653.79	716.04	3,211.05	1,083.71	3,387.79	1,146.01	729.77	3,541.33	1,578.24	344.64	57,392.37
1887.....	42,627.98	654.31	3,211.31	828.40	3,219.18	1,137.30	528.92	4,027.92	2,307.61	230.51	58,773.44
1888.....	43,500.00	588.68	3,262.24	1,237.55	3,317.98	1,282.80	454.01	4,435.75	1,600.00	81.48	60,360.44

EXPENDITURES FOR TEN YEARS.

1879.....	\$34,776.06	474.23	\$2,297.83	\$982.34	1,819.19	\$414.64	\$369.04	\$3,785.70	\$1,225.36	\$368.89	\$46,144.32
1880.....	36,628.60	440.09	2,229.73	974.86	2,889.75	383.08	400.38	5,038.10	1,057.05	124.35	50,051.64
1881.....	37,503.40	599.89	2,494.89	823.17	3,036.26	745.24	566.05	4,959.72	1,374.75	.....	52,103.37
1882.....	39,755.69	515.42	2,574.33	969.95	3,090.75	1,111.53	462.56	6,599.52	1,784.95	222.57	57,007.27
1883.....	39,579.49	725.62	2,868.47	1,462.37	2,225.75	888.34	544.54	3,736.23	1,474.89	.....	53,505.70
1884.....	39,592.42	396.86	3,019.16	985.36	1,844.00	1,508.01	450.78	4,270.79	1,252.38	157.34	53,477.10
1885.....	39,819.03	484.37	3,108.96	1,012.31	2,642.01	884.03	499.53	3,236.83	1,476.04	.....	53,133.11
1886.....	41,689.32	486.73	3,249.24	1,139.81	3,168.61	1,009.59	400.85	3,663.41	1,370.63	312.23	56,440.42
1887.....	42,627.98	565.63	3,215.19	1,092.31	3,506.21	856.25	474.91	3,742.21	2,410.68	†283.89	58,679.26
1888.....	43,401.33	554.68	3,262.24	1,237.55	3,317.98	1,221.56	346.52	4,435.75	1,224.93	†202.41	59,684.02

* \$700 of tuition transferred to repairs at end of year.
 † \$227.69 of tuition transferred to evening schools at end of year.
 ‡ Overdrawn.

(M)

COST OF THE PUBLIC SCHOOLS FOR SIX YEARS.

DATE.	* Average No. pupils.	Cost of Schools.	Cost per Scholar.	City Valuation.	City Tax.	School Tax.
1883.....	2,990	\$53,505.70	\$17.89	\$20,055,986	\$332,741	\$.0026
1884.....	3,005	53,477.10	17.80	20,613,032	360,732	.0026
1885.....	2,860	53,133.11	18.58	21,137,464	345,200	.0025
1886.....	2,810	56,440.42	20.08	21,379,384	347,268	.0026
1887.....	2,925	58,679.26	20.06	21,905,476	373,139	.0026
1888.....	2,990	59,684.02	19.96	22,162,928	432,914	.0026

* Pupils of both day and evening schools included.

VIII. — SCHOOL YEAR.

Winter term of twelve weeks opened January 2, closed March 23. Vacation of three weeks.

Spring term of eleven weeks opened April 16, closed June 29. Vacation of ten weeks.

Fall term of fourteen weeks opened September 10, closed December 14. Vacation of two weeks.

Number of school days in the year, as provided above by the school board, 185.

Average number days the schools were taught, 172.

(Being closed several holidays, days of "Teachers' Institutes," and half-days on account of bad weather or insufficient heat.)

IX. — HIGH SCHOOL GRADUATING CLASS.

William Argyle Abbott.	Maude Gertrude Fifield.
Warner Mitchell Allen.	Susie Gilman Fogg.
Harry Elmer Andrews.	Hattie Belle Folsom.
Vennie Shepard Bartlett.	Annie Belle Goodwin.
George Whitney Bartlett.	Etta Bell Goodwin.
Harry Ernest Blanchard.	Lillian Josephine Gray.
Harriet Lewis Blake.	Margaret P. Harrington.
Seddie Berry.	Mary Augusta Hawley.
Mabel Josephine Brickett.	Ethel Gertrude Lamprey.
Maud Ashley Briggs.	Maude Amelia Leighton.
Clara Ellen Brown.	Julian Samuel Lord.
Minnie Maud Brown.	Gilman McAllister.
George Byron Carr.	John Bernard McGuiness.
Arthur Henry Caswell.	Alice Alberta Mears.
Mary Frances Chandler.	Emma Abbie Putney.
Nathaniel Ward Colby.	Harry Messer Quimby.
Nora Sallie Dearborn.	Ernest Augustus Royal.
Arthur Boynton Dickey.	Sarah Gertrude Sawyer.
Jennie Gertrude Dixon.	William Henry Saxton.
Edith Smith Dole.	Imogene Inona Stearns.
Helen Parker Drake.	Carrie Melvin Story.
Minnie Florence Eastman.	Mary Emma Streeter.
	Bertha Alice Young.

X. — ORGANIZATION, 1889.

SCHOOL COMMITTEE.

DAVID B. VARNEY, Mayor, *ex-officio*, *Chairman*.

CHARLES A. CARPENTER,

President of the Common Council, *ex-officio*.

Ward 1. — Charles H. Manning.

John L. Sanborn.

Ward 2. — Benjamin C. Dean.
William C. Clarke.

Ward 3. — Nathan P. Hunt.
James E. Dodge.

Ward 4. — Frederick C. Crosby.
Stephen W. Clarke.

Ward 5. — John F. Cahill.
James P. Slattery.

Ward 6. — John C. Balch.
Frank T. E. Richardson.

Ward 7. — Edward B. Woodbury.
Marshall P. Hall.

Ward 8. — Luther C. Baldwin.
William K. Robbins.

VICE-CHAIRMAN OF THE BOARD.

BENJAMIN C. DEAN.

CLERK OF THE BOARD.

JAMES E. DODGE.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

TRUANT OFFICER.

GEORGE M. L. LANE.

STANDING COMMITTEES.

Finance. — The Mayor, Messrs. S. W. Clarke, Carpenter, Dodge, Slattery.

Salaries. — Messrs. Woodbury, Hall, Robbins.

Repairs, Furniture, and Supplies. — Messrs. Manning, Balch, Sanborn.

(P)

Text-Books, Apparatus, and Studies. — Messrs. Dean, Hunt, W. C. Clarke.

Drawing. — Messrs. Hall, Baldwin, Richardson.

Music. — Messrs. Richardson, W. C. Clarke, Crosby.

Fuel and Heating. — Mr. Dodge, the Mayor, Messrs. Manning, Carpenter, Balch.

Examination of Teachers. — Messrs. Hunt, Dean, S. W. Clarke.

SUB-COMMITTEES.

High School. — Messrs. Manning, Dean, Hall, Hunt, S. W. Clarke.

Ash and Bridge Streets. — Messrs. Dean, Hunt, W. C. Clarke.

Lincoln Street. — Messrs. S. W. Clarke, Woodbury, Richardson.

Spring Street and Lowell Street. — Messrs. Hall, Manning, Sanborn.

Franklin Street. — Messrs. Woodbury, Dodge, Sanborn.

Training School and Wilson Hill. — Messrs. Hunt, Dean, Dodge.

Beech Street. — Messrs. Sanborn, Cahill, Crosby.

West Manchester Grammar. — Messrs. Baldwin, S. W. Clarke, Balch.

School Street and South Main Street. — Messrs. Robbins, Slattery, Baldwin

Webster Street, Blodget Street, Amoskeag, and Stark District. — Messrs. W. C. Clarke, Robbins, Slattery.

Bakersville. — Messrs. Balch, Hall, Woodbury.

Hallsville and Youngsville. — Messrs. Crosby, Balch, Cahill.

Mosquito Pond and Webster's Mills. — Messrs. Cahill, Robbins, Slattery.

Goffe's Falls and Harvey District. — Messrs. Dodge, Baldwin, Crosby.

Evening Schools. — Messrs. Richardson, Manning, W. C. Clarke.

XI. — LIST OF TEACHERS.

HIGH SCHOOL. — BEECH STREET.

Master. — Albert Somes.

Sub-Master. — George I. Hopkins.

Assistants. — Lucretia E. Manahan.

Mary A. Buzzell.

Rocilla M. Tuson.

Mary Stanton.

FRANKLIN-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Principal. — Fred C. Baldwin.

Assistants. — Annie O. Heath.

Jennie M. Chandler.

Carrie E. Reid.

First Floor. — Lower Grades.

Higher Middle. — C. Augusta Abbott.

Lower Middle. — Hattie G. Flanders.

Higher Primary. — Nellie M. James.

Lower Primary. — Ella F. Sanborn.

SPRING-STREET SCHOOLS.

Second Floor. — Mixed Grades.

Principal. — Lizzie P. Gove.

Higher Middle. — Emma L. McLaren.

First Floor. — Lower Grades.

Lower Middle. — Fannie D. Moulton.
 Higher Primary. — Nellie I. Sanderson.
 Lower Primary. — Lucia E. Esty.
 Lower Primary. — Alice E. Page.

LINCOLN-STREET SCHOOLS.

Second Floor — Grammar Grades.

Principal. — Frank S. Sutcliffe.
 Assistants. — Annie W. Patten.
 Isabelle R. Daniels.
 Mary F. Barnes.

First Floor. — Lower Grades.

Grammar and Middle. — Nettie F. Ainsworth.
 Higher Middle. — Susie G. Woodman.
 Lower Middle. — Cora B. Gilford.
 Higher Primary. — Georgie A. Wyman.

ASH-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Principal. — J. Walter Stetson.
 Assistants. — Annie A. Webster.
 Mary E. Bunton.
 Bertha L. Dean.

First Floor. — Lower Grades.

Higher Middle. — Nancy S. Bunton.
 Lower Middle. — Kittie J. Ferren.
 Higher Primary. — Mary F. Nutt.
 Lower Primary. — Clara E. Woods.

MAIN-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Principal. — George Winch.

Assistants. — Cora M. Dearborn.

Mary J. Hickey.

Barbara B. Joy.

First Floor. — Lower Grades.

Higher Middle. — Flora M. Senter.

Mixed Middle. — Ellen E. McKean.

Lower Middle. — Josephine H. Newton.

Lower Middle. — Nettie C. Woodman.

WEBSTER-STREET SCHOOLS.

Second Floor. — Grammar Grades.

Principal. — William F. Gibson.

Assistant. — Alta C. Willand.

First Floor. — Lower Grades.

Mixed Middle. — Eva F. Tuson.

Mixed Primary. — Lettie M. Smith.

BAKERSVILLE SCHOOLS.

Second Floor. — Mixed Grades.

Principal. — Lizzie A. Burns.

Mixed Middle. — Lelia A. Brooks.

First Floor. — Lower Grades.

Higher Primary. — S. Izetta Locke.

Lower Primary. — Edith M. Stebbins.

BLODGET-STREET SCHOOLS.

Second Floor.

Higher Primary. — Gertrude H. Brooks.

First Floor.

Lower Primary. — Georgianna Dow.

LOWELL-STREET SCHOOLS (CORNER CHESTNUT).

Second Floor.

Used for evening schools.

First Floor.

Mixed Primary. — Helen M. Morrill.

MERRIMACK-STREET SCHOOLS (CORNER UNION).

Training School.

Principal. — Caroline E. Wing.

A Lower Middle school, a Higher and two Lower Primary schools, embracing first four years of school work. Principal is assisted by members of Training class.

WILSON HILL.

Lower Primary. — Huldah C. Graupner.

Lower Primary. — Ella Hope.

BEECH-STREET SCHOOL (CORNER SPRUCE).

First Floor.

Lower Primary. — Augusta S. Downs.

SCHOOL-STREET SCHOOLS.

Second Floor.

Higher Primary. — Mary W. Mitchell.
 Lower Primary. — Mary J. Walsh.

First Floor.

Lower Primary. — Kate T. Clarke.
 Lower Primary. — Mary A. Southard.

SOUTH-MAIN-STREET SCHOOLS.

Higher Primary. — Della E. Haines.
 Lower Primary. — Sarah B. Paige.

PARTIALLY GRADED SCHOOLS.

Amoskeag. — Etta J. Carley, Principal.
 Mary G. Tynan, Primary Department.
 Hallsville. — Olive J. Randall, Principal. .
 Theodora Richardson, Assistant.

UNGRADED SCHOOLS.

No 1, Stark District. — Nellie M. Atwood.
 2, Goffe's Falls. — Georgie A. Nute.
 3, Harvey District. — Ella F. Barker.
 4, Youngsville. — Kate Townsend.
 5, Webster's Mills. — Genevieve B. Knight.
 6, Mosquito Pond — Olive A. Rowe.

SPECIAL TEACHER.

Music. — J. J. Kimball.

EVENING SCHOOLS.

(Open from October to March, five evenings each week.)

Lowell-street Building.

Three schools for boys.

Spring-street Building.

Three schools for girls.

Clinton-street Building.

A school for boys.

School-street Building.

A school for girls.

Goffe's Falls.

A school for both sexes.

EVENING DRAWING SCHOOL.

(Open from October to March.)

Spring-street Building.

Machine-drawing classes meet on Monday and Thursday evenings.

Architectural-drawing classes meet on Tuesday and Friday evenings.

GRADUATES OF TRAINING SCHOOL JAN. 25, 1889, NOT AT GIVEN DATE EMPLOYED AS REGULAR TEACHERS.

Nettie B. Fogg.*

Inez M. Warren.*

Lillian Little.*

Abbie R. West.*

*Certificated for middle and primary grades.

(W)

MEMBERS OF TRAINING SCHOOL, 1889. — ENTERED FEB. 6,
1888.

Emma B. Abbott.	Maude L. Kent.
Alverta P. Barrett.	Millie S. Morse.

ENTERED SEPT. 10, 1888.

Mabel J. Brickett.	Emma M. Streeter.
Annie B. Goodwin.	Bertha A. Young.

ENTERED JAN. 28, 1889.

Mary E. Moulton.

OTHERS, NOT HERE EMPLOYED IN TEACHING, WHO HAVE
CERTIFICATES OF QUALIFICATION.

Maud Bell, Fanny L. Perry, Fannie E. Smith, Martha T. Learnard, Lizzie M. McAfee, Hattie J. Hoyt, Eleanor H. Kirk, Evelina Davis, William S. Harris, Charles W. Bickford, Cora F. Sanborn, Hattie N. Gage, Grace Irwin, and Carrie L. Barker. All certificated for Grammar and lower grades.

Fannie L. Sanborn, Helen W. Poor, Belle F. Small, Hattie M. Ellis, Hattie E. Merrill, and Alithea M. Hutchins. Certificated for Middle and Primary grades.

JANITORS.

Webster Street and Blodget Street.

Michael Finley, Pearl, near Chestnut.

High School, Ash Street, and Wilson Hill.

John S. Avery, 404 Merrimack.

Franklin Street and Lincoln Street.

William Stevens, 418 Central.

Spring Street and Lowell Street.

William H. Morrill, 45 Pennacook.

Merrimack Street and Spruce Street.

Edward P. Cogswell, 218 Central.

Piscataquog Schools (Main Street, School Street, and South Main Street).

Albert T. Barr, 73 A, West Manchester.

Bakersville School.

H. C. Dickey, Bakersville.

XII. — SCHOOL YEAR, 1889.

Winter term of twelve weeks opens December 31, 1888, closes March 22, 1889. Vacation of three weeks.

Spring term of eleven weeks opens April 15, closes June 28. Vacation of ten weeks.

Fall term of fourteen weeks opens September 9, closes December 13. Vacation of two weeks.

REPORT
OF THE
CITY SOLICITOR.

REPORT OF THE CITY SOLICITOR.

To His Honor the Mayor, and Gentlemen of the City Councils :

The City Solicitor would respectfully submit the following report :

There are now pending against the city, upon the law docket of the Supreme Court for Hillsborough county, the following cases :

FRANK S. BODWELL *vs.* MANCHESTER.

This case has already been heard by E. S. Cutter, referee, in a two days' trial. This is a claim for additional compensation for stonework upon the police station in 1884. The report of the referee has not yet been made. Something was due the plaintiff. The question tried was, "How much?"

NANCY O. SAVORY *vs.* MANCHESTER.

A suit for \$2,500, for damages alleged to have been occasioned by the icy condition of Middle street, January 27, 1886.

ARTHUR L. CLARK *vs.* MANCHESTER.

This is a suit for \$7,000, for injuries received by falling into a bulkhead on Elm street, in front of the Music Hall building, December 2, 1887, the iron grating having been left off the opening. The plaintiff has since died, as it is claimed, of his injuries, and his administrator.

comes in to prosecute the case. The city will look to the owners of the block, or to the parties who removed the grating and caused the defect, in case a verdict is had against the city. Proper notices have been made to all parties in any way connected with the cause of the defect.

HENRY LANG *vs.* MANCHESTER.

A claim of one thousand dollars for an injury to the plaintiff's wrist, received by falling, on account of the alleged icy condition of Pearl street, February 1, 1888. In this case notice has been served upon the owners of the buildings whose projecting eaves caused any defect there may have been, to appear and defend the suit.

ELIZABETH W. MILLER *vs.* MANCHESTER.

The plaintiff sues to recover the amount paid to enter a sewer in Bakersville, from which her pipe was afterwards disconnected.

JOHN G. KELSEA *vs.* MANCHESTER.

A suit for damages for a sprained ankle received in 1887, alleged to have been caused by a hole in the sidewalk on Massabesic street.

CLARA MOORE *vs.* MANCHESTER.

In this case the plaintiff seeks to recover \$7,000, for injuries alleged to have been caused by falling upon the ice upon Orange street, December 20, 1886.

MARY KILDEA *vs.* MANCHESTER.

This is a suit for \$3,000, for injuries alleged to have been caused by falling upon the temporary sidewalk around the lot on which the Manchester House formerly sat, while that building was being moved, on June 19,

1888. The proper parties have been summoned to appear and defend the case.

EMELINE C. CALL *vs.* MANCHESTER.

This plaintiff asks for \$3,000, for injuries claimed to have been caused by a fall, owing to an alleged defect in Lowell street, July 18, 1888.

In Merrimack county there is one suit:

SARAH B. BEAN *vs.* MANCHESTER.

A suit to recover \$7,000, for injuries received by plaintiff by being thrown from her carriage, December 1, 1886, alleged to have been caused by a hole in the Young road in Hallsville.

There are also upon the sessions docket of Hillsborough county two petitions: One of Luther W. Hall, for additional land damages caused by laying out East Spruce street a number of years ago; the other of the P. C. Cheney Company and others, for a new highway in West Manchester.

Upon the equity docket is the petition of Fred P. Danforth, filed September 3, 1886, for damages alleged to have been caused his land by repairing Lake avenue.

In the United States Circuit Court for this district the case of Manchester *vs.* the Western Union Telegraph Company, to recover the amount of the verdict against the city in the case of Mary Sykes *vs.* Manchester, is still pending.

During the past year the following cases have been disposed of:

Jessie Quigley *vs.* Manchester was tried by a jury at the March term, and a verdict for the plaintiff of \$1,075 and costs was found, and has been paid.

Elvira H. Jillson *vs.* Manchester, and James Neal *vs.*

Manchester, were both disposed of without trial, the city paying a part of the amount agreed upon, and the owners of the buildings in front of which each plaintiff fell, paying a part, and the sidewalk was thoroughly repaired, and similar accidents in the future prevented.

The petitions of Gust Foster and others, for an extension of Cypress street, and of Samuel Amsden and others, for an extension of Manchester street, were tried before the county commissioners. In the first, the petition was denied; in the second, the street was extended, as asked for, from Belmont to Milton street.

In the case of *State vs. Manchester*, an indictment was found against the city for not building Webster street as laid out. This case was disposed of by the building of the street during the summer.

In the "Knibbs valve" suit against the city in the United States Circuit Court, which case, in common with that of all the other cities of New Hampshire, was managed entirely by Hon. W. L. Foster of Concord, final judgment was rendered in favor of the city.

In addition to these court cases, the solicitor would state that he has devoted his time, as requested, to the various details of the office. He has attended every meeting of the Committee on Claims, has investigated such accidents as have been brought to his notice, has attended the sessions of the police court whenever requested to do so by the marshal, and has given advice to various city officials whenever called upon by them. He has found his relations with all the members of the city government to be of the most pleasant character, and would tender his thanks to your honorable body for all your courtesy and kindness.

EDWIN F. JONES,
City Solicitor.

REPORT
OF THE
OVERSEERS OF THE POOR.

REPORT
OF THE
OVERSEERS OF THE POOR.

To the Mayor, Aldermen, and Common Council of the City of Manchester :

In compliance with the ordinances of said city, the Overseers of the Poor herewith present their annual report for the year 1888.

The whole number of paupers supported at the City Farm during the year has been twenty, at a cost of one dollar and forty cents per week for each pauper.

The whole number of families that have received more or less assistance off the farm during the year has been one hundred and twenty, consisting of three hundred and sixty persons, all of whom have a settlement in this city ; five of this number died during the year.

The whole number of persons supported at the State Industrial School during the year has been six, at a cost of one dollar and fifty cents per week for each person. The whole number of persons supported at the County Farm during the year has been five, consisting of one woman, insane; two men, insane; and two small children, at a cost of two dollars per week for each adult, and one dollar per week for each child, for board, clothing, and care for each person.

The overseers have given and allowed eight hundred and eighty orders for support of paupers off the farm during the year, consisting chiefly of groceries, fuel, medicine, and emergencies.

The amount allowed to the several wards is as follows :

Ward 1	.	.	.	.	.	\$101	17
Ward 2	.	.	.	.	.	348	97
Ward 3	.	.	.	.	.	983	51
Ward 4	.	.	.	.	.	763	11
Ward 5	.	.	.	.	.	1,886	33
Ward 6	.	.	.	.	.	438	75
Ward 7	.	.	.	.	.	169	00
Ward 8	.	.	.	.	.	300	44
							<hr/>	\$4,991 28

BILLS ALLOWED FOR EMERGENCY CASES.

Industrial School, board of inmates	\$2,447	14
County of Hillsborough, support of John J. Murray	104	00
County of Hillsborough, support of Asenath H. White	104	00
County of Hillsborough, support of Patrick Keefe	70	00
County of Hillsborough, support of Sheehan and Emerson, two babes	62	00
Mrs. E. B. Fellows, support of Willis Gray, a child	67	00
Women's Aid Hospital, support of Henry Fisher	77	50
Josie Haff, support of insane husband	95	17
A. E. Morse, burial of Celia Jackson	10	00

Town of Candia, support of Mrs. George H. Johnson	\$34 76	
Town of Enfield, support of George W. Berry	18 40	
Lewis K. Mead, medicine delivered to police station	8 80	
Mary Wilson, conveyance by rail of Robert C. Dow to Vermont	5 00	
E. T. James, conveyance of Joseph Foss to city farm	1 50	
City of Portsmouth, support of William Cooms	11 25	
F. L. Wallace & Co., burial of John H. Day	25 50	
Town of New Boston, support of Joseph Foss	35 05	
Temple & Farrington, stationery	14 40	
O. D. Kimball, printing	15 25	
	<hr/>	\$3,206 72
Total amount allowed		<hr/> <hr/> \$8,198 00
Cash received from county of Hills- borough for boarding inmates of Industrial School	\$2,065 07	
Cash received from city of Concord for support of Willie Gray	56 00	
Cash received from county of Hills- borough for burial of Celia Jack- son	10 00	
	<hr/>	
Total cash received		\$2,131 07
Total cost for the year		<hr/> <hr/> \$6,066 93

All of which is respectfully submitted.

WILLIAM H. MAXWELL, Ward 1, *Clerk*,
THOMAS L. QUIMBY, Ward 2,
JAMES SUTCLIFFE, Ward 3,
HORACE GORDON, Ward 4,
FRANK J. MORRISON, Ward 5,
CHARLES FRANCIS, Ward 6,
WILLIAM MARSHALL, Ward 7,
HORATIO FRADD, Ward 8,

Overseers of the Poor for the City of Manchester.

REPORT

OF THE

JOINT STANDING COMMITTEE ON CITY FARM.

R E P O R T

OF THE

JOINT STANDING COMMITTEE ON CITY FARM.

To His Honor the Mayor, and Gentlemen of the City Councils:

In presenting our report for the year ending December 31, 1888, your committee feel gratified that they close their official duties with so good a showing.

There have been no expensive improvements made during the past year, although a great deal has been done for the general good of the buildings, farm, and tools. During the winter months, one hundred and seventy-six cords of hard wood were cut and drawn to the sheds, where it was prepared for the stove and piled under cover. The wagons, sleds, and tools were all carefully examined, repaired, and painted at the farm, ready for use, two new hay-racks were made, and considerable work done in breaking roads.

Under the management of the superintendent, the old wall from the road to the drain, by the vegetable garden, has been removed, making available a strip of land about twenty feet wide and the length of the vegetable garden; this, with the field beyond, has been plowed, and with the garden sowed to vegetables. The wall in the lane at the back of the barn, begun by Superintendent Willey in the fall of 1887, has been finished.

The small number of cattle at the farm does away with the necessity of a silo, and the silo has been changed into a vegetable cellar.

The old sink-drain under the house cellar has been taken up, and new pipes put in, being a much needed repair. The boiler chimney has been topped out about four feet, thus increasing the draft, so there has been no trouble, as heretofore, in running the fire under the boiler. The plastering was all taken off the walls of the kitchen, and new put on; the walls were then painted, so they can be easily washed. Five rooms in the house were newly papered and, with the hall, were painted.

A dumb-waiter has been put in the passageway between the dining-room and kitchen. Steam-pipes have been placed in boilers in the wash-room, for the purpose of heating the water without building fires purposely, thus providing hot water at all times, and saving the expense of separate fires. A bath-tub has been put in for the use of the superintendent and family. A tapestry carpet was purchased for the parlor.

The premises have been whitewashed several times, the barn patched twice, and it needs shingling now. All the buildings should be painted at once.

A valuable horse that was purchased for \$250, died within three months, from inflammation of the bowels. A new democrat wagon has been bought. Four cows have been added to the farm. Two heifers, which were appraised \$30, have been raised during the year.

Your committee and the superintendent expressed themselves, in their last report, as proposing to make a better showing in the vegetable department than had previously been done, and we think this has been done. As is shown by the sale-book of the superintendent, quite a sum has been realized from the sale of vegetables.

These have been disposed of at the stores, and peddled on the streets.

At the time of our appraisal, December 20, 1888, we found the vegetables as follows, being those remaining after selling and consuming from harvest to that date:

Potatoes	275 bushels.
Onions	95 "
Carrots	125 "
Parsnips	40 "
Beets	55 "
Turnips	125 "
Heads of cabbage	1,500

There were also fifty tons of English hay, and sixty-seven barrels of apples, besides a good showing of meadow hay, corn-fodder, and beans.

The potato crop was greatly injured by drouth, followed by extreme cold, wet weather. The crop was very promising early in the season, well topped out, and appeared remarkably fine until spoiled by the exceptionally bad weather. Four hundred and fifty Hubbard squashes were touched by early frost, and spoiled. There were 583 gallons of vinegar, and 7,748 gallons of cider in the process of making vinegar, at the farm.

Following is a recapitulation of our appraisal:

Live-stock	\$1,564 50
Wagons, carts, and team furnishings	830 75
Hay, grain, and produce	2,621 27
Farm implements, etc.	1,235 58
Household furniture, etc.	1,735 25
Provisions and fuel	894 84
	<hr/>
Total	\$8,882 19

Statement of accounts for year ending December 31, 1888:

Total cash paid out	\$5,859 97
Interest	1,000 00
	<hr/>
	\$6,859 97
Total receipts of farm	2,334 51
	<hr/>
	\$4,525 46
Bills receivable	34 00
	<hr/>
	\$4,491 46
Permanent improvements	305 33
	<hr/>
	\$4,186 13
Difference in stock (more)	1,815 90
	<hr/>
	\$2,370 23

Total cash paid city treasurer, \$1,817.97.

Total number of weeks' board of prisoners and paupers, 1,688 $\frac{3}{7}$.

Average cost of board of each individual, per week, \$1.40 $\frac{2}{5}$.

Your committee have visited the farm frequently during the year, and have watched with a great deal of satisfaction the management of Superintendent John H. Willey, and we willingly testify to his ability for the position he has held, and we believe the affairs of the farm have been conducted honestly, economically and successfully.

The position of matron is one requiring especial qualifications, and is fully equal in responsibility to that of the superintendent, and we have found Mrs. Willey equal in

every particular to the requirements of the office, and we regret that Mr. and Mrs. Willey are not candidates for re-election.

Respectfully submitted.

L. P. REYNOLDS,
GEO. S. CLOUGH,
THOS. P. RILEY,
GUY F. WHITTEN,

Joint Standing Committee on City Farm.

REPORTS
OF THE
COMMITTEE ON CEMETERIES.

R E P O R T
OF THE
TRUSTEES OF CEMETERIES.

VALLEY CEMETERY.

The Sub-Trustees of the Valley Cemetery respectfully submit the following report for the year 1888 :

The City Councils having, for several years past, their attention called to the absolute necessity of a more commodious receiving-tomb, made an appropriation for that purpose, and ordered its location in the Valley Cemetery, and your committee have built as follows: In side hill, north of the brook, between Chestnut and Pine streets ; inside dimensions, 16 by 75 feet, and 10 feet in height ; rear and end walls, 24 inches, stone, laid in best Portland cement ; front wall cut stone, laid in courses of 15 and 16 inches in depth, backed with a 12-inch brick wall ; roof, 24 wrought iron beams, 8 inches in depth, 17 feet 4 inches in length, weighing 22 pounds to the foot, and laid 32 inches apart, with brick arches covered with asphalt, tar, and concrete, with 8 inches of soil on top ; doors of half-inch steel ; bottom concreted, with a three-inch drainage-pipe from inside to the brook, and have raised the roadway nearly four feet. Owing to the lateness in the year when the work was commenced — August 6 — and the rainy weather

(which we consider worthy of record, as in the one hundred and ten days to November 23, thirty-five days were rainy, and twenty-two and nine tenths inches of rain fell, according to Mr. Lord's account), we were unable to complete the outside drainage and grading, but it will be done early in the spring. There are on hand and paid for seventy loads of loam and two thousand brick.

Your committee are under great obligations to City Engineer Bennett, who made all the plans and specifications, and all the work subject to his approval, and also to Mr. Sullivan, of Concord, Hon. Alpheus Gay, and Hon. Frank Dowst, of this city, for suggestions and advice.

RECEIPTS.

Appropriation	\$4,000 00	
Transfer	240 80	
	<hr/>	\$4,240 80

EXPENDITURES.

Paid J. W. Kimball, excavating	\$160 50
J. W. Kimball, teaming and loam	70 85
Frank S. Bodwell, stone and labor	1,338 24
Martin Fitzgerald, stone and labor	1,080 00
B. W. Robinson, brickwork	150 44
Pettee & Adams, cement and lime	197 80
Head & Dowst, 28,000 brick	210 40
A. H. Lowell, iron and labor	409 41
C. H. Robie, concreting	150 82
E. J. Williams, tarring roof	51 10
George C. Gilmore, labor	120 50

Paid Michael Kane, labor	\$84 75	
Daniel Sullivan, labor	84 00	
L. M. Aldrich, material and labor	30 86	
Pike & Heald, material and labor	26 90	
Samuel Cooper, drawings	22 50	
Union Publishing Co.	6 25	
J. Hodge, lumber	12 27	
Warren Harvey, lumber	6 00	
D. O. Furnald, expense	5 12	
Charles W. Quimby, expense	1 00	
J. B. Varick Co.	7 15	
Killey & Wadleigh	1 86	
White M. F. Co.	3 46	
Patrick Long, labor	3 00	
Aleck Shine, labor	3 75	
John Corey, labor	1 87	
		————— \$4,240 80

Respectfully submitted.

GEORGE C. GILMORE,
CHARLES W. QUIMBY,
Building Committee of Sub-Trustees.

During the year, Mr. C. H. G. Foss, the superintendent, has continued the improvement of the valley by grading the banks of the brook and walling it with stone, and it is now finished nearly or quite one half its length in the grounds. A new bridge for carriage travel has been built, and the old foot-bridge moved higher up the stream, and the lot-owners generally are showing commendable interest by having more taken care of, watered, and trimmed up. The water service has been extended to many private lots, and the graveling of the paths and roads continued.

Shrubs, flowers, and trees have been set out, and several ladies have asked to have distinct plots assigned them to ornament and care for at their pleasure, which has been cheerfully granted.

RECEIPTS.

Appropriation for 1888		\$1,500 00
Earnings, care of lots	\$370 00	
materials and labor	273 05	
for water	190 00	
for opening graves	162 00	
for tomb fees	184 25	
for material sold	125 00	
for extending water	81 70	
for grass sold	14 00	
	<hr/>	\$1,400 00
Total		<hr/> <hr/> \$2,900 00

EXPENDITURES.

Paid C. H. G. Foss, superintendent	\$705 25
C. W. Noyes, labor	314 12
Luther Leavitt, labor	111 62
James Barrett, labor	293 01
Jaques Bilodeau, labor	117 99
Seventeen Associates, gravel	130 91
George Whitford, teaming	39 20
District No. 2	32 75
J. W. Kimball, loam and teaming	158 36
L. M. Aldrich, new bridge	70 04
A. C. Wallace, new bridge	39 50
F. S. Bodwell, new bridge	42 00
J. J. Abbott, new bridge	10 35
N. E. Fullerton	26 50

Paid Marshall & Underhill . . .	\$20 88
Hiram H. Gurney . . .	24 75
W. B. Abbott, painting . . .	54 35
John Gannon, Jr., painting . . .	99 55
Water Commissioners . . .	133 80
Thomas A. Lane, pipe and labor	89 75
O. D. Carpenter, labor . . .	8 20
Manchester Hardware Co. . .	14 30
J. B. Varick Co.	32 27
W. H. Vickery	2 95
Palmer & Garmon	7 00
D. O. Furnald	15 00
Temple & Farrington	12 44
J. Hodge	8 70
Pike & Heald	29 37
Higgins Brothers	10 00
Campbell & Williams	4 25
Heath & Stevens	7 80
F. S. Worthen & Son	17 85
H. H. Huntress	7 00
J. Francis	28 62
Peter O. Woodman	3 60
Taylor & Flanders	3 75
C. C. Webster	8 25
F. X. Chenette	10 25
Clark Brothers	13 50
George W. Rodgers	6 16
Thomas Barrett	34 78
G. L. Moore	1 00
B. W. Robinson	5 00
J. Doherty	1 50
J. Mahoney	15 75
J. McLaughlin	5 00

Paid P. A. Meade	\$5 00
George W. Dodge	3 00
William Neil	10 62
M. Harrington	6 00
John Abraham	9 37
James Clifford	8 75
Pettee & Adams	3 10
J. F. Woodbury & Co.	75
C. H. Hutchinson	1 11
J. A. Coverly	3 00
C. Manseau	1 50
	<hr/>
Total	\$2,881 17
Balance on hand December 31, 1888	18 83
	<hr/>
	\$2,900 00

Submitted to full board, February 5, and approved.

CHARLES QUIMBY,
 JOSEPH QUIRIN,
 GEORGE C. GILMORE,
 BUSHROD W. HILL,
 DAVID O. FURNALD,
Sub-Trustees Valley Cemetery.

PINE GROVE CEMETERY.

The Sub-Trustees record with pleasure the continued prosperity of the Pine Grove Cemetery, and an increasing demand for the superior facilities which the improvements of recent years have placed within the reach of the public.

Especial efforts have been made during the past year to beautify and improve the portions of the cemetery not

heretofore plotted for burial lots; to lay out thereon new lots, diversified in size and construction so as to answer the demands of persons of varying tastes and means; to provide new avenues, and to refit the old ones, for the constantly increasing use for which they are required.

Many permanent improvements heretofore referred to in the reports of the sub-trustees are still unaccomplished, and it has been thought best, the past year, to attempt nothing beyond a judicious expenditure of what was necessary to perform satisfactorily the work referred to, and to provide for the desires of the rapidly increasing list of lot-owners all that is required or possible to beautify and adorn this sacred place, and stimulate them to assist in the desirable work by their personal care of what is their immediate charge.

A statement, somewhat in detail, of what has been accomplished may not be uninteresting, or devoid of benefit to the future interests of the cemetery.

AVENUES.

In the report of last year, attention was called to new avenues in the southern portion of the old grounds, making available an attractive crown of land in the southwest corner, which, during the past year, has been reclaimed and graded; the low places having been raised by the placing of nearly four hundred loads of earth from the highest point, and from other places in that vicinity where perfection of grade was required. This tract is ready to be laid into lots in the early spring, and will prove one of the most beautiful and attractive locations, for lawn or ordinary lots, in the entire grounds. Adjacent to it, new avenues have been built and old ones extended, so as to utilize and make available the sites for most desirable lots, which will speedily be finished upon them.

Woodside avenue has been extended nearly a thousand feet, to Acacia, and thoroughly graded the entire length. Riverside avenue has been extended nearly five hundred, and South avenue four hundred feet. Poplar avenue has been laid and graded from Linnet to Woodside avenue, and all the others have received more than ordinary care.

The necessary work upon the avenues and paths can hardly be appreciated, and the increasing distances of both, with the new tracts of land constantly being put upon the market, occasion an item of expenditure among the largest in the list.

NEW LOTS.

Early in the spring the demand for lots was unusually large, and that adequate provision might be made to satisfy the wants of the public in this regard, seventy-two lawn lots were laid out south of the same grade of lots on the east side of the cemetery. For the accomplishment of this indispensable service, about two hundred loads of filling were required, and much labor to bring the plot to the desirable grade. The addition has lots of pronounced popularity, and they were disposed of nearly as fast as completed. Another plot has been laid out immediately south of this, of the same general character, and will be put into lawn lots upon the opening of the spring.

GENERAL IMPROVEMENTS.

During the year a large amount of clearing, in places where objectionable pines prevented the use of the land for burial and the erection of valuable granite or marble monuments, has been accomplished, and nearly two hundred dollars have been received from the sale of the

lumber taken therefrom. Stumps in large numbers have been taken out, principally from the west side, and generally throughout the yard.

WATER-WORKS.

Poplar avenue, as extended the past year, has been supplied with water-pipe for a distance of nearly two hundred feet, for the accommodation of lot owners in that vicinity, and six hydrants have been placed in position for the same purpose. Other extensions will be required with the opening spring, requiring a larger outlay than for many years. Less fault was found with the lack of sufficient water facilities for new lots, on account of the lesser need of water than usual, by reason of frequent rains, which made the use of city water less necessary, and this fact also accounts for the apparent falling off in water-rates.

SEWAGE.

Time has demonstrated the absolute success of the system of sewerage introduced in 1886, and the sub-trustees recommend that the necessary expenditures for continuing this beneficial work may be provided for in the appropriations soon to be made.

HILLSIDE LAWN.

The eminent success of the attempt to make of this symmetrical elevation and graceful slope of land a special feature in the general attractiveness of this beautiful cemetery, has been fully demonstrated. Magnificent monuments of unexcelled workmanship and artistic beauty are rapidly and significantly testifying to the wisdom of this assignment. During the past year seventeen of these lots have been sold. The cemetery fund,

set apart for the future care and preservation of these lots, now amounts to over seven thousand dollars, two thousand of which has been received during the past year. The income of this fund has been expended by the superintendent for the purposes for which its expenditure is required to be made, under the direction of the sub-trustees.

APPROPRIATIONS.

Permanent improvements must be provided for by the city government, in its wise apportionment of the public funds. The sub-trustees are very grateful for judicious investments in this city of our dead since its foundation. We have no doubt that the necessities of the present and immediate future will receive equally commendable consideration and liberality. We suggest, therefore, much-needed permanent improvements, as follows :

IRON FENCE.

At least one half of the old lot, and the entire new territory designated as the "Straw lot," are either entirely uninclosed or insulting the public with decay and ruin, never more than a poor apology for an ordinary fence. In 1886 the last new fence was placed on the grounds, for which one thousand three hundred dollars was paid.

LOAM AND MUCK.

The cemetery requires a much larger expenditure for these indispensable articles to facilitate the growth of sward, flowers, and shrubs, and keep public parks and private lots in attractive condition, than has heretofore been made.

Another unfavorable season prevented the digging of muck from the new lot, but the old supply is not ex-

hausted. It is hoped that work may be continued the coming season in excavating for the artificial pond, which is ultimately to be one of the attractions of the "Straw lot," and a twofold result be thus accomplished.

PLANS AND RECORDS.

The suggestions of last year's report are herein renewed, and the necessity of a liberal expenditure for this indispensable necessity urged upon the city government. Each year sends landmarks and recollections farther into oblivion, and soon it will be impossible to resuscitate or identify original boundaries of avenues, paths, or lots, if not preserved by thorough and well-conceived work.

NURSERY.

What remains of the original possessions of this inclosure should be taken therefrom and used for beautifying the grounds, in accordance with the original design, and the nursery replenished with a new supply of infant stock. Only a small amount of money will be required to furnish the germs for a flood of beauty.

SUPERINTENDENT.

The rapid growth of this cemetery for several years, the extended plans for its future development, which from time to time have been made, the partial progression in various directions, the personal wants of lot-owners, and the necessity of a general acquaintance with the practical requirements of the cemetery, make the duties of the superintendent especially arduous and trying. The sub-trustees have endeavored in every possible way to protect him from the caprices and whims of persons who overrate his authority, and are offended if he refuses to

grant them all the indulgence they desire, as of necessity he must. They have also been mindful of the rights and privileges of lot owners, undertakers, monument manufacturers, and the public generally, and have provided, in the by-laws and rules, abundant means to reform all abuses, to cause to be performed all services which applicants have a right to demand, and to correct any violation of duty, misdemeanor, or want of attention and courtesy on the part of any officer or employee. The superintendent is the servant of the sub-trustees alone, not of the public, or any branch of it, and he is compelled to enforce every rule and regulation laid down for his guidance, and to submit, for instruction all requests not especially provided for thereby. The public are invited to present their complaints to the sub-trustees in writing, and we guarantee an investigation and a decision according to the best judgment of the board. The board can properly take into consideration, in forming their estimate of the faithfulness of the superintendent and the other employés, the fact that no formal complaint has been made, and nothing has been brought to the attention of the trustees except idle rumors. The trustees commend the superintendent, and his assistants at the yard, for their faithful services and courteous deportment, so far as they are aware, by their own observation, or responsible criticism; at the same time they announce their readiness to pass impartial judgment upon all complaints or charges which may properly be made to them.

The sub-trustees close this report with the expression of their assurance that the Pine Grove Cemetery was never in a more prosperous condition; that its prospects were never more hopeful, nor its possibilities more propitious. It is the pride of those whose claims upon it are

the most sacred, and it should have its share of the official patronage and public commendation.

H. D. GORDON,
GEO. W. BACON,
HENRY H. HUSE,
JAMES A. WESTON,
JOSEPH L. STEVENS,

Sub-Trustees of the Pine Grove Cemetery.

To their report the sub-trustees append the following statistical tables, which they have prepared, with the hope that the information may be gratifying to the lot owners and the friends of the Pine Grove Cemetery:

SUPERINTENDENT'S ACCOUNT.	1888.	1887.
Received for advance payments on lots sold.....	\$626.00	\$426.00
“ “ interments.....	436.00	391.00
“ “ water and care of lots.....	395.93	211.50
“ “ grading lots.....	422.26	335.50
“ “ loam sold.....	.....	29.00
“ “ extra labor on lots.....	21.05	5.25
“ “ wood and timber.....	272.53	386.55
“ “ removal of bodies.....	91.00	16.15
Total receipts.....	\$2,264.77	\$1,800.95
Deduct minor expenses.....	3.70	2.85
Balance paid city treasurer.....	\$2,261.07	\$1,798.10

MISCELLANEOUS.	1888.	1887.
Number lots regraded.....	25	20
“ “ monuments erected.....	20	25
Lots sold on “ Hillside Lawn ”.....	17	10
“ “ unsold on “ Hillside Lawn ”.....	53	73
“ “ sold with lawn restrictions.....	51	27
“ “ with lawn restrictions, unsold.....	50	73
Ordinary lots sold.....	13	15
“ “ unsold.....	17	20
Total number of lots sold.....	84	52
Number of interments.....	232	210
“ “ of interments on public grounds.....	49	50
Whole number buried in public grounds.....	1,015	1,006

RECEIPTS.	1888.	1887.
Balance on hand, January 1, 1888.....	\$2,819.24	\$1,762.40
Appropriation for 1888.....	1,000.00	2,500.00
Advance payments for lots sold.....	626.00	426.00
Sale of lots by treasurer.....	2,040.40	1,591.80
Balance of superintendent's receipts less \$3.70.....	1,635.15	1,372.10
Totals.....	\$8,120.79	\$7,652.30
Total receipts from all sources.....	\$8,124.49	\$7,655.15

CURRENT EXPENSES.	1888.	1887.
Salary of superintendent at \$2.....	\$730.00	\$728.00
Labor and teaming....	1,751.68	2,251.16
Material and tools.....	132.40	84.74
Printing and stationery.....	20.66	68.02
Flowers and shrubs.....	36.40	84.75
Water-rates.....	300.00	300.00
Telephone.....	53.50	50.65
Totals.....	\$4,024.64	\$3,567.32

PERMANENT IMPROVEMENTS.	1888.	1887.
Water extension.....	\$122.93	.....
Storehouse.....	166.10	\$591.30
Furnishing house.....	55.43	76.47
Loam and turf.....	218.48	40.02
Laying out "Straw lot," and iron fence.....	.....	550.15
Totals.....	\$562.94	\$1,257.94

SUMMARY.

Balance Jan. 1, 1888, and appropriation	\$3,819 24
Receipts from cemetery during the year	4,301 55
Total receipts	\$8,120 79
Expenditures for the year 1888	\$4,587 58
Balance on hand Dec. 31, 1888	3,533 21
Total	\$8,120 79

TREASURER'S REPORT.

To the Trustees of Cemeteries :

GENTLEMEN,—I herewith present to you my annual report of the money received by me during the year ending December 31, 1888, on account of cemeteries.

PINE GROVE CEMETERY.

Number of lots sold and deeds delivered during the year 1888, seventy-five.

Cash received for the same	\$2,666 40
Cash received from superintendent	1,635 15
Total	<u>\$4,301 55</u>

VALLEY CEMETERY.

Cash received from superintendent \$1,400 00

I have in my possession twenty-seven deeds ready for delivery, the most of which will soon be taken. There are a few lots, however, which have been bargained for and a small deposit made, where the parties appear to have left town, and I can get no reply to repeated notices which I have sent. I hardly think in these cases the contract will ever be completed on their part, and the deed taken.

All money received by me has been turned into the city treasury, for which I have the proper vouchers from the City Clerk.

Most respectfully submitted.

SYLVANUS B. PUTNAM,
Treasurer of Trustees of Cemeteries.

MANCHESTER, January, 1889.

I hereby certify that I have examined the accounts of Sylvanus B. Putnam, treasurer of the trustees of cemeteries, and find the same correctly cast and properly vouched.

NATHAN P. KIDDER,
City Auditor.

REPORT

OF THE

TRUSTEES OF THE CEMETERY FUND.

To the City Councils of the City of Manchester :

GENTLEMEN,—The Trustees of the Cemetery Fund have the honor to present herewith their ninth annual report, embracing the report of their treasurer, which shows the financial operations for the year ending December 31, 1888, and the condition of the fund at the present time.

The lots embraced in the following table have been endowed for perpetual care :

VALLEY CEMETERY.

When paid.	Name of Owner.	No. lot.	Location.	Amt.
1880. July 1..	James Hall.....	14	East ave.....	\$200
1883. Mar. 6..	George W. Bailey, estate.....	210	Birch ave.....	500
1884. May 31..	Thomas C. Shepherd, estate.....	339	Cedar walk....	300
June 13..	Mrs. Emeline McNab.....	185	Chestnut ave....	100
Dec. 8..	Harris J. Poor.....	22, 23	Path B & C....	100
1885. June 8..	Betsy B. Dame, estate.....	152	Path K.....	150
Oct. 29..	William B. Webster, estate.....	.....	.....	100
1886. June 21..	Hannah Kenniston, estate.....	424	Pleasant ave....	200
Aug. 27..	Mrs. E. B. Merrill.....	305	Pine ave.....	100
Sept. 18..	George F. Spaulding.....			
Dec. 31..	James A. Weston.....	88	Chestnut ave....	300
1887. June 11..	I. S. and J. P. Craig.....	597	Sylvan path....	100
1888. Feb. 25..	William and Mary Shepherd, estate.	341	Cedar path....	300
May 19..	Ami Whidden, estate.....	256	Path O.....	100
				\$2,550

PINE GROVE CEMETERY.

When paid.		Name of Owner.	No. lot.	Location.	Amt.
1883.	June 23..	Mrs. H. G. Connor	2066	Laurel avenue	\$158 12
	" 23..	Charles Osbrey, estate.....	2101	Laurel ave.....	70 11
	Dec. 13..	Phinehas Adams.....	{ 2061 2062 2063 }	Laurel ave.....	343 60
1884.	May 21.	Thomas S. Foot.....	2065	Laurel ave.....	146 56
	July 1..	B. F. Martin ..	2064	Laurel ave.....	121 42
1885.	Jan. 1..	Mrs. C. W. Stanley.....	2069	Laurel ave.....	158 24
	Aug. 6..	Harvey B. Sawyer.....	2099	Lawn ave.....	102 22
	Sept. 15.	Gilman Clough.....	2068	Laurel ave.....	158 28
	" 15..	Lewis A. Clough.....	2067	Laurel ave.....	157 34
	Oct. 17.	George F. Lincoln.....	2071	Magnolia ave.....	158 20
	Dec. 2..	Daniel F. Straw.....	2072	Magnolia ave.....	158 20
	" 8..	Alpheus Gay.....	2073	Magnolia ave.....	158 20
1886.	Jan. 1..	Heury C. M-r-rill.....	2070	Magnolia ave.....	158 20
	June 18..	Mary Ann Martin..... } Fannie M. Chandler..... }	2060	Woodbine ave.....	134 16
	July 21..	C. F. Bonney.....	2028	Woodbine ave.....	133 80
	" 23..	Jeremiah Austin.....	2058	Woodbine ave.....	140 10
	Aug. 16..	Mrs. A. J. Dow.....	2057	Woodbine ave.....	149 82
	Dec. 21..	Charles H. Robie.....	2074	Magnolia ave.....	165 88
	" 31..	James A. Weston.....	{ 2076 2075 2049 2048 }	Magnolia ave..... Woodbine ave..... Woodbine ave.....	617 44
1887.	April 6..	John Hoyt ..	2055	Woodbine ave.....	154 22
	" 19..	Elizabeth S. Crosby.....	2102	Lawn ave.....	93 20
	" 21..	M. A. Follansbee.....	2056	Woodbine ave.....	162 50
		S. R. Tewksbury.....	{ 2001 2026 }	Floral ave..... Woodbine ave.....	275 57
	June 17..	James Kennard, estate.....	1513	Highland ave.....	500 00
	July 1..	George G. Shute.....	2053	Woodbine ave.....	149 00
	" 1..	Richard S. Eastman.....	2054	Woodbine ave.....	150 06
	Aug. 1..	Caroline P. Brown.....	645	Chessom ave.....	100 00
	Nov. 22..	Ann E. Aldrich.....	2052	Woodbine ave.....	149 00
1888.	Jan. 6..	John C. Young	2002	Cedar ave.....	160 00
	May 1..	Rebecca W. Smith.....	717	Chestnut ave.....	100 00
	" 8..	Joseph C. Fifield.....	2045	Birch ave.....	151 63
	July 7..	James A. Fracker.....	2051	Woodbine ave.....	149 00
	" 31..	I. D. Palmer	2047	Birch ave.....	148 90
	Aug. 23..	Noah S. Clark	2042	Woodbine ave.....	153 90
	Sept. 19..	Mrs. Robert Moore.....	522	Vernal and May paths.	140 00
	" 24..	Henry W. Moore..... } Edith Taylor..... }	709	Chestnut ave.....	160 00
	Nov. 9..	Joseph B. Wiggin.....	2043	Walks.....	145 44
	" 9..	Mabel M. Cheney.....	2036	Woodbine ave.....	126 70
	Dec. 29..	John C. French.....	2050	Woodbine ave.....	164 12
					\$6,723 13

PISCATAQUOG CEMETERY.

March 27, 1884. Gilman Riddle..... \$200 00

The trustees desire to call attention to the meager sum that most of the proprietors of lots have provided for the perpetual care and maintenance of their lots, and more

especially in cases where the grounds are fitted with granite curbing, and have upon them marble head-stones and monuments that in time will need repairing or replacing. The perishable nature of many kinds of marble in general use has come to be well understood; therefore, a proper sum should always be on hand to replace any structure that may be destroyed from natural decay or from accidental causes. To meet these contingencies, and pay the ordinary annual expenses, the trustees venture to remark that, for a lot of average size, and fitted up in the ordinary manner, the interest of at least three hundred dollars will be required to cover the cost of proper care and maintenance during a series of years; for larger lots, having expensive monuments or costly works of art upon them, a larger sum would be necessary.

It is a pleasure to state that a marked improvement in the condition of the lots during the past year has been very apparent, and it is confidently believed that still greater progress in this direction will be made in the future.

Respectfully submitted.

JOHN HOSLEY, *Mayor*,
P. C. CHENEY,
JAMES A. WESTON,
Trustees of Cemetery Fund.

January 1, 1889.

TREASURER'S REPORT.

To the Trustees of the Cemetery Fund:

GENTLEMEN, — I herewith transmit to you the sixth annual report of the funds received and the expenses paid to December 31, 1888.

VALLEY CEMETERY.

Amount of permanent fund on hand as per last report . . .	\$2,150 00	
Received during the year from:		
Estate of William and Mary Shepherd	300 00	
A. G. Fairbanks, administrator	100 00	
	<hr style="width: 100%;"/>	\$2,550 00
Income on hand as per last report	\$105.95	
Received since last report . . .	116 25	
	<hr style="width: 100%;"/>	
Total income		\$222 20
Expenses paid as follows:		
Valley cemetery, care of lots . . .	\$50 75	
Cash on hand	171 45	
	<hr style="width: 100%;"/>	
Total		\$222 20

PINE GROVE CEMETERY.

Amount of permanent fund on hand as per last report . . .	\$5,123 44
Received during the year from:	
John C. Young heirs	160 00
Rebecca W. Smith	100 00

Joseph C. Fifield	\$151 63	
James A. Fracker	149 00	
I. D. Palmer	148 90	
Noah S. Clark	153 90	
Mrs. Robert Moore	140 00	
Henry W. Moore and Edith Taylor	160 00	
Joseph B. Wiggin heirs	145 44	
Mabel M. Cheney	126 70	
John C. French	164 12	
	<hr/>	
Total		\$6,723 13
Income on hand as per last report	\$164 23	
Received since last report	255 62	
	<hr/>	
Total income		\$419 85
Expenses paid as follows:		
Eben T. James	\$29 51	
Sidney A. Blood	11 06	
Byron A. Stearns	3 55	
Pine Grove cemetery, care of lots	87 00	
Cash on hand	288 73	
	<hr/>	
Total expenses		\$419 85

PISCATAQUOG CEMETERY.

Amount of permanent fund as per last report		\$200 00
Cash on hand as per last report	\$10 00	
Interest received since last report	10 00	
	<hr/>	
Total cash on hand		\$20 00

Most respectfully submitted.

SYLVANUS B. PUTNAM,
Treasurer of Trustees of Cemetery Fund.

This is to certify that I have examined the books of accounts of Sylvanus B. Putnam, treasurer of the trustees of the cemetery fund, embracing the receipts and expenditures for the year ending December 31, 1888 and that I find the same correct and properly vouched.

I have also examined the securities in which said fund is invested, and find as follows :

VALLEY CEMETERY.

Bonds of the city of Manchester,	
N. H., 5 per cent	\$2,550 00
	<hr/>
Amount of permanent fund	\$2,550 00

PINE GROVE CEMETERY.

Bonds of the city of Manchester,	
N. H., 5 per cent	\$6,700 00
Cash	23 13
	<hr/>
Amount of permanent fund	\$6,723 13

PISCATAQUOG CEMETERY.

Bonds of the city of Manchester,	
N. H., 5 per cent	\$200 00
	<hr/>
Amount of permanent fund	\$200 00

NATHAN P. KIDDER,
City Auditor.

REPORT

OF THE

CHIEF ENGINEER OF FIRE DEPARTMENT.

R E P O R T
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

ENGINEER'S OFFICE, VINE STREET,
MANCHESTER, N. H., December 31, 1888.

To His Honor the Mayor, and Gentlemen of the City Councils :

In compliance with the laws and ordinances of the city I herewith submit the annual report of the Manchester Fire Department for the year ending December 31, 1888.

The report will be found to contain detailed statements of the fires and alarms the department has responded to during the year, with causes thereof, and losses and insurance paid, as nearly as could be ascertained; a register of the officers and men, with rank, occupation, residence, and number of badge; list of fire-alarm stations and keys, location of hydrants, etc.

The department, as a whole or in part, have responded to twenty-two bell and twenty-five "still" alarms. Many of the "stills" have amounted to nothing but burning chimneys, with no damage, and were needless; yet they prevented the calling out of the department by a bell alarm, which excited individuals are prone to do.

The aggregate losses, within the city limits, to which any portion of the department has responded, amount to \$33,902.04, on which there has been paid \$19,182.33 in-

surance, leaving a net loss, over and above insurance, of \$14,719.71, the heaviest loss being that of the Print Works laboratory, on which there was no insurance.

THE FORCE

has been subject to quite a number of changes during the year. On February 8, Merrimack Hose Company No. 4 was changed to Merrimack Steam Fire-Engine Company No. 3, and two men were added by transfer; one from Steamer Company No. 1, and one from Hose Company No. 1. On April 16, Gen. Stark Steam Fire-Engine Company No. 5 was organized to man the new third-class steamer built by the Manchester Locomotive Works, and assigned to the new engine-house at the North End, corner of Webster and Chestnut streets. Most of these men were transferred from companies at the central station. A combination carriage, carrying a hose-reel, light ladders and two hand chemical extinguishers to run in connection with this steamer, was built to order by Galen Bowditch, Charlestown, Mass., and will prove a very serviceable piece of apparatus for this section of the city. In accordance with a change in the city ordinances, on the third of July Pennacook Hose Company No. 1 was reduced from twenty to twelve men, and Excelsior Hook-and-Ladder Company No. 1, from twenty-five to twenty men.

The present organization of the department includes one hundred and twenty-three members, as follows:

- 1 Chief Engineer.
- 4 Assistant Engineers.
- 5 Steam Fire-engine Companies, — 14 men each.
- 2 Horse Hose Companies, — 12 men each.
- 1 Chemical Engine Company, — 4 men.
- 1 Hook-and-Ladder Company, — 20 men.

In addition to the above is a volunteer hand-hose company, formerly of twenty men, but at present of only sixteen.

THE BUILDINGS

occupied by the department, aside from some minor repairs needed, are in good condition, those at the central station demanding the most attention. The plumbing in this building is very defective, and the sewer gas and stench that permeate the tenements, either from the bad plumbing or lack of suitable sewerage, or both, are of a nature that would hardly be allowed to exist in any but a public building. The stable connected therewith is poorly ventilated, and its roof should be thoroughly overhauled and regravelled at an early date.

The new building on Lake avenue, when completed, will be a model of convenience, a credit to the city, and a structure that the inhabitants of ward six may well feel proud of; and yet I feel the time will come when its voters will see that they would be better accommodated by having a ward-room and an engine-house entirely separate from one another. The time is coming when we shall, in all probability, have a paid department, and in constructing new buildings care should be exercised for the convenience of such a system.

THE APPARATUS

as at present located, consists of—

2 Steam Fire-engines, Central Fire Station.

1 Steam Fire-engine and Horse Hose Carriage attached, North Main street, 'Squog.

1 Steam Fire-engine and Horse Hose Carriage attached, at corner of Lake avenue and Massabesic street.

1 Steam Fire-engine and 1 Horse Hose Carriage and

Hook-and-Ladder combination, at corner of Webster and Chestnut streets.

1 Hose Wagon at Webster-street engine-house.

1 Horse Hose Carriage, at Central Fire Station.

2 Hook-and-Ladder Trucks, at Central Fire Station.

1 Double Tank (60 gallons each) Chemical Engine, at Central Fire Station.

1 Supply Wagon, at Central Fire Station.

1 Horse Hose Carriage, corner Maple and East High streets.

1 Steam Fire-engine (reserve), at old engine-house on Clinton street, 'Squog.

1 Hand Hose Carriage, at junction of Old Falls road and Front street, 'Skeag.

1 Two-wheeled Hose Carriage, Derry Mills, Goffe's Falls, manned by men at the mills.

Whenever suitable horses are procured for the Gen. Stark engine, the one now owned by the city will be placed at central fire station and the spare hose wagon put into service, to run with Steamer 1, thus doing away with that long endured objectionable "jumper" in rear of steamer. When this is accomplished only one engine, Steamer 4, will have a "jumper" attached, and I hope the incoming City Councils will favorably consider, and devise some plans whereby the engine-room and stable can be arranged so that a horse hose wagon may be run in connection with this steamer.

THE FIRE-ALARM TELEGRAPH

has worked satisfactorily during the year and with its usual reliability, no false alarms occurring except in a few cases where careless persons have broken the wires by falling or trimming trees, where the wires would get "swinging grounds," causing irregular blows.

On the 25th of February a tower striker at the Bakersville school was put into circuit, and May 7, Box 114 was added to the system and located at the corner of Pearl and Ash streets.

We have been unusually fortunate and free from damage by lightning ; not a single instance of "burning out" on the lines during the year. The main lines consist of about twenty-eight miles of No. 12 (B and S gauge) hard drawn copper wire, 1 automatic eight-circuit repeater, 47 signal-boxes, 8 tower bell-striker, 9 engine-house gongs, 9 automatic indicators, 5 automatic gas-lighting instruments, 5 engineers, 9 gongs and tappers on corporations and in shops, 174 jars of gravity battery. The "Individual" or "Tapper" alarm consists of about twenty-six miles of the same kind of wire as the main lines, and 100 gongs and 215 jars of battery.

THE HORSES.

In the early part of January, all of the horses used for fire purposes were transferred from the street department to the fire department, and there are now twenty-one of them in this service. One of the pair of blacks attached to the General Stark steamer died, and since its death that company has had the use of one belonging to Alderman O. E. Kimball.

THE ANNUAL PARADE.

The ninth annual parade occurred on Tuesday, October 9, amid quite a smart little snow storm, and while it dimmed the polish of the apparatus, it dampened not the spirits or courage of the members. It closed with the usual collation at City Hall. I trust the next appropriation may be made to cover the expense of this parade.

THE FIREMEN'S RELIEF ASSOCIATION

has been generously remember by kind-hearted citizens, and has been called upon to pay out but little on account of misfortune to its members.

The following is the present condition of its treasury:

Balance on hand at last annual meeting	\$1,795 60	
Received for membership	13 00	
interest on deposits	84 94	
advertising in "Fire Service"	196 64	
Donation, New Hampshire Insurance Co.	50 00	
Donation, Temple & Farrington Col. Waterman Smith	25 00	
Col. Benj. C. Dean	20 00	
Rt. Rev. Bishop Bradley	15 00	
Gov. Moody Currier	10 00	
Mrs. F. C. Dow	10 00	
Weston & Hill	10 00	
W. W. Hubbard	10 00	
A. J. Lane	5 00	
John Hayes	5 00	
James T. Donahoe	5 00	
	<hr/>	\$2,265 18
There has been paid from the fund:		
Joseph E. Merrill, secretary	\$25 00	
Postage and printing	2 40	
H. C. Morrill, injury at Print-Works fire	22 00	
George Dunnington, injury at McQuillan's fire	7 00	
	<hr/>	\$56 40
Balance in treasury		<hr/> <hr/> \$2,208 70

RECOMMENDATIONS.

I would renew my recommendations of last year,—a light one-horse hook-and-ladder truck for the new engine-house on Lake avenue, and one for 'Squog, equipped in the usual manner, and not to require the heavy one from the central station to go to the extreme limits of the city on alarms where shorter and lighter ones will answer the requirements; while otherwise it would leave the thickly part of the city unprotected for ladder service in case of another alarm at the same time in the business portion of the city.

I earnestly recommend an increase to the permanent force; of an engineer for each of the steamers on this side of the river, and an additional permanent man to the Hook-and-Ladder Company, and Pennacook Hose Company. The additional men of the latter companies could materially lessen the expenses now paid for repairs and for firemen on the heating boiler. I feel confident that a careful consideration of this matter will convince the Councils, that the rapid growth of our city necessitates this increase. Keyless fire-alarm boxes are no longer an experiment, and I would recommend their substitution on boxes in our business center. I would recommend that plans be made in the engine-room and stables of Steamer 4, for the accommodation of a hose wagon and an additional horse, so as to do away with the "jumper," as referred to under a previous head. I would recommend the purchase of three thousand feet of hose the coming year, the better to equip the department in case of a large conflagration, the occurrence of which our city has been remarkably fortunate for quite a number of years. I would recommend the construction of bath-rooms at the central station and Massabesic Hose Com-

pany's house that the members at those stations may enjoy the healthful luxury accorded those at the other fire stations.

CONCLUSION.

In closing I desire to tender the thanks of the entire membership to General Charles Williams for his supply of coffee refreshments that he provides and desires served at all fires.

My personal acknowledgments are hereby tendered to his Honor Major Hosley and the members of the City Councils, for the interest manifested in the welfare of the departments; to my assistant engineers and the officers and members, for the prompt and efficient manner they have at all times responded to alarms, and their untiring interest in sustaining the reputation and efficiency of the department; and to the chief of police and his department for their assistance at fires, as well as escort at our annual parade.

Respectfully submitted.

THOS. W. LANE,
Chief Engineer Fire Department.

FIRES AND ALARMS DURING 1888, WITH LOSSES AND INSURANCE PAID.

STILL. Tuesday, January 3, 10.50 P. M. Burning chimney on Hanover street, near Union. No damage.

Box 212. Saturday, January 14, 7.42 P. M. Four-story brick building, corner Massabesic and Cypress streets, owned by Manchester Shoe-Manufacturing Company, and occupied by Kimball Brothers for the manufacture of shoes. Fire originated in the boiler-room among some leather scraps sent down from the work-room, and communicated to the woodwork and belting about the engine. Damage, \$89. Insurance paid, \$89.

Box 212. Sunday, January 15, 7.12 A. M. Rekindling of leather scraps from last night's fire. Extinguished with a pail of water before the arrival of the department. Needless alarm. No damage.

Box 7. Tuesday, January 24, 1.23 A. M. Three-story wooden block at 1157 Elm street, owned by George W. Riddle, and occupied by Pigeon & Maynard as a millinery and fancy goods store. The fire is said to have originated in a box of rubbish from some unknown cause. Stock insured for \$1,500. Damage to stock, \$750. Damage to building, \$194. Insurance paid, \$944.

Box 4. Wednesday, January 25, 11.07 A. M. Two-and-half-story wooden dwelling at No. 131 Cedar street, owned by Daniel F. Healy, and occupied by Cornelius A. Healy and Patrick Ryan. The fire originated in the basement, from plumber's lamp, thawing water pipes, and communicated through the house to the roof in the partitions. Building insured for \$1,500. Damage to building, \$800; to contents, \$50. Insurance paid, \$800.

STILL. Wednesday, January 25, 9.45 A. M. Manches-

ter House, No. 787 Elm street. Kettle of fat caught fire. Chemical responded. No damage.

Box 113. Sunday, January 29, 1. A. M. Two-story wooden dwelling, situated at corner of Maple and Myrtle streets, owned by the Manchester Print Works, and occupied by Colonel Benjamin C. Dean as a residence. The fire was caused by a defective chimney, and obtained considerable headway within the partitions before discovered. Building insured for \$12,000; contents, for \$3,000. Damage to building, \$10,892.33; to contents, \$5,000. Insurance paid, \$13,892.33.

STILL. Wednesday, February 15, 6.30 P. M. Two-story wooden tenement on Amherst street, near Vine, and at 6.30 P. M., four-story brick block, corner Elm and Hanover streets. Burning chimneys in each case. No damage. Chemical responded.

STILL. Thursday, February 16, 9 A. M. Chimney at No. 119 Central street. No damage. Chemical responded.

Box 4. Sunday, February 26, 8.30 A. M. Burning chimney in house, rear No. 46 Auburn street, owned by Barney Gill, and occupied by Thomas Gorman. No damage. Needless alarm.

Box 53. Tuesday, February 28, 2.49 P. M. Cottage house at No. 124 Milford street, owned by Charles W. Quimby. Fire originated from a defective chimney, and was confined wholly to the roof. Extinguished by Fire King Steamer Company before the arrival of apparatus from this side of river. Damage, \$25. Fully insured.

STILL. Saturday, March 3, 11.45 P. M. Burning chimney in Green's block, corner Laurel and Chestnut streets. Chemical responded. No damage.

Box 313. Sunday, March 11, 1.57 P. M. One-story wooden building, corner of Main and McGregor streets, owned by F. C. Charland. Shavings on floor caught

from spark from oven. Damage by smoke, \$15. Insured.

STILL. Monday, March 26, 10.15 A. M. Three-story brick building at No. 787 Elm street, Manchester House, owned by Weston, Elliott, *et als.*, and occupied by H. H. Duncklee. Fire from an overheated chimney ignited casing, causing damage to the amount of \$8. Fully insured. Extinguished by Chemical Engine Company.

STILL. Thursday, April 5, 3.55 P. M. Burning chimney in house owned by N. J. Smith at No. 134 Central street. Chemical responded. No damage.

STILL. Sunday, April 8, 5.50 A. M. Four-story brick building at No. 742 Elm street, owned by Simons, Clough, *et als.*, and occupied by M. S. Chamberlin as a hotel. Burning chimney ignited woodwork in store underneath hotel occupied by Marshall & Knowlton. Damage to building, \$12. Insurance paid, \$12. Extinguished by Chemical Engine Company.

STILL. Tuesday, April 24, 3.50 P. M. Fire in closet of Parsons's block on Concord street, in tenement occupied by Talty. No damage. Chemical responded.

STILL. Wednesday, April 25, 10.15 A. M. Burning chimney, corner Chestnut and Park streets. No damage.

STILL. Thursday, April 26, 9 A. M. Cottage house, No. 20 Dover street, owned by William McElroy, and occupied by George Brown. Fire caught from overheated stove and communicated to the woodwork about the partition. Insured for \$700. Damage, \$60. Insurance paid, \$60. Extinguished by Fire King Engine Company No. 2.

Box 56. Sunday, April 29, 2.26 P. M. Burning brush near residence of J. P. Brock, Mast street and Bedford road, in 'Squog. Fears were entertained that the fire

would reach houses in that vicinity, but the fire was extinguished without damage.

STILL. At 3.55 P. M. Burning brush in Amoskeag Company's woods, corner of Union street and Hooksett road. Chemical responded. No damage.

STILL. Monday, April 30, 7.15 A. M. Burning chimney, corner Central and Elm streets. Chemical responded. No damage.

STILL. Friday, May 4, 9.30 P. M. Sparks from a locomotive set fire to some cotton in a car in Concord Railroad yard. Damage to cotton, \$100, insured; to car, \$50, no insurance. Extinguished with chemical engine and hydrant stream.

STILL. Wednesday, May 9, 9 A. M. Cottage house No. 169 Laurel street, owned and occupied by Clark M. Bailey. Fire caught from defective chimney and communicated to partitions. Insured for \$2,700. Damage, \$30. Insurance paid, \$30. Pennacook Hose and chemical engine responded.

During the progress of this fire word was telephoned from Hotel Windsor for assistance. Investigation showed the cause of the fright to be only smoke from an open funnel hole in room No. 38.

STILL. Monday, May 14, 8.45 P. M. Burning chimney in house of William Mahoney on East Spruce street. Chemical engine called. No damage.

STILL. Tuesday, May 15, 2.40 A. M. Four-story brick block, No. 772 Elm street, owned by Green heirs, and occupied by C. H. Spollett as a boarding house. Overheated range ignited woodwork. Damage, \$50. Insurance paid, \$50. Extinguished by chemical engine.

Box 51. Thursday, June 7, 7.07 P. M. While testing Steamer 2 at hydrant on River street, some "wild" citizens, seeing the smoke of the steamer, and without

ascertaining whether it was anything serious or not, caused false alarm from box 51.

Box 42. Tuesday, June 12, 6.35 P. M. Laboratory of Manchester Print Works, used for manufactory of chemicals, caught from ignition of gases from a still. Damage to building and contents, \$12,519.71. No insurance.

Box 7. Saturday, June 23, 5.50 P. M. Two-story wooden building, corner of Washington and Church streets, owned by Dennis Lane, and occupied by J. L. Barry. Cause, kerosene-can exploded on stove. Damage, \$10. Fully insured.

Box. 15. Tuesday, July 3, 7.54 P. M. Barn in rear of No. 93 Pearl street, owned by Merrill W. Higgins. Damage, \$187. Insurance paid, \$187. The flames damaged the block of D. K. Mack, adjoining, about \$120. Fully insured. Cause, fire-crackers.

STILL. Wednesday, July 4, 9.30 A. M. Two-story house, No. 397 Pine street. Fire on roof, caused from sparks. Chemical responded. Extinguished with pails, without damage.

Box 7. Wednesday, August 1, 9.48 P. M. Burning chimney in Kennard's block, corner Elm and Washington streets. No damage.

Box 31. Thursday, August 2, 7.04 P. M. Blacksmithshop of Manchester Locomotive Works. Sparks from furnace ignited woodwork about the roof. Damage, \$50. Fully insured.

Box 45. Thursday, August 2, 8.32 P. M. Oil-shed owned and occupied by A. N. Clapp, adjoining railroad yard, containing thirteen barrels of kerosene oil. Damage, \$350. Fully insured.

STILL. Monday, August 27, 5.15 P. M. Two-story dwelling, No. 82 Spruce street, owned by Mary Thorn-

ton, and occupied by John Thornton. Defective chimney caused damage to the amount of \$20. Fully insured.

STILL. Saturday, September 8, 9.30 A. M. Cottage house, No. 240 Manchester street, owned by Charles Kebbon, and occupied by himself and David Ladd. Burning soot in an old fireplace ignited woodwork. Damage, \$35. Fully insured. Extinguished by Chemical Engine Company.

STILL. Thursday, September 13, 4.15 P. M. Bed in tenement, corner of Amherst and Pine streets. Extinguished with pails. Damage trifling.

Box 7. Tuesday, September 18, 10.28 A. M. Burning chimney in Dunlap's three-story wooden block, No. 36 Bridge street. No damage. Needless alarm.

STILL. Wednesday, September 26, 8.20 P. M. Lamp explosion in tenement second house east of police station. No damage.

STILL. Saturday, September 29, 12.32 P. M. Three-story tenement block, No. 186 Auburn street, owned by John Conway, and occupied by several families. Cause, defective chimney. Damage, \$50. Insurance paid, \$50. Extinguished by Chemical Engine Company.

Box 21. Monday, October 1, 7.15 P. M. Two-story wooden dwelling at No. 181 Merrimack street, owned by Mrs. Mary Connor, and occupied by Fred D. Carlton. A defective chimney caused a loss of \$350. Insurance paid, \$350.

Box 24. Thursday, October 11, 12.10 A. M. Cottage house and barn at No. 473 Central street, owned by Peter McQuillan, and occupied by Gustave Munier. Fire originated in barn (which was connected with the house), from some unknown cause. Total loss on barn, and partial on house and contents. McQuillan's damage, \$1,150; Munier's, \$450. Insurance paid, \$1,500.

STILL. Sunday, November 18, 4 P. M. Burning chimney in house of Catherine Edwards, No. 350 Chestnut street, called out the Chemical Engine Company. No damage.

Box 62. Friday, November 23, 6.08 P. M. Cottage house on river road in Bakersville, owned by Mitchell heirs, and occupied by Isaiah Emerson. Fire originated from a defective chimney, and the distance from the central station being about $1\frac{1}{2}$ miles, it obtained considerable headway. It was confined, however, to the main part of the house. Insured for \$800. Damage, \$275. Insurance paid, \$275.

Box 4. Sunday, December 2, 4.24 A. M. Four-story wooden tenement block, corner Cedar and Elm streets, owned by Blodgett & Young, and occupied by several families. Ashes carelessly kept in a wooden box in closet caused damage to the extent of \$20. Fully insured. Extinguished by chemical engine.

Box 7. Thursday, December 6, 7.42 A. M. Two-story wooden dwelling, owned by Whitford & Sherwood, and occupied by Frank King and Nazair Reni. Fire originated under the floor of the second story, probably from matches. House insured for \$1,500. Damage to house, \$250; contents, \$100. Insurance paid, \$250.

STILL. Monday, December 10, 5.40 P. M. Burning chimney in Fremont block, corner Manchester and Union streets, called chemical engine. No damage.

STILL. Saturday, December 15, 5.50 P. M. Burning chimney on Manchester street, near corner of Chestnut, called chemical engine. "No fire, no danger, no loss, no need of alarm."

Number of bell alarms	22
Number of still alarms	25
Total	<u>47</u>
Aggregate losses for the year 1888	\$33,902 04
On which insurance has been paid	<u>19,182 33</u>
Balance uncovered by insurance	\$14,719 71

TABLE

SHOWING NUMBER OF ALARMS FROM EACH BOX SINCE TELEGRAPH SYSTEM WAS ESTABLISHED, SEPTEMBER 7, 1872.

Box.	1872	'73	'74	'75	'76	'77	'78	'79	'80	'81	'82	'83	'84	'85	'86	'87	'88	Total.
3			1	1		2			1			1			1	1		8
4	5		6	4	7	7	5	4	4	2	8		1		4	8		74
5			6		2	2	1	1		2	1		1	1	1	1		19
6		4	1	1	4	4	2	2	2	3	2	2	3	3	1	2		31
7		7		2	1	3		2	3	2	1		1	1	1	2	5	30
8		2		2	1	1	1	1	1			2	2	2				13
9									1		1			2				4
12	1																	1
13		1		1			1						1					3
14																		1
15	1			1				1	1	1	2		2	1		2	1	12
16		1		1												1		3
17				1	1								1	1				4
18				1				1	1	1								3
21	5	3		1	1	2	2	1	1	2	1	1	2	2	5	1	1	31
22	1						1	1	1	1	1		1	1		1		7
23									1	1							1	8
24				1	1	1		2	1	1		1						4
25				1	1					1				1				4
26		1						1	1				1					16
27			2	2	1	5			2		1		2		1			8
31				3								1			2		1	5
32							1		1		1		1			1		4
34		2	1											1				1
35							1					1						2
36							1									1		2
41					1		1										1	2
42		1																
43																		2
45		1	1				1	1	1	1		3	4	1			1	15
51		4	3	1	1	2	1	1	2	2	2	2	3	2	2			23
52		1							2								1	17
53		2	1	1	1		1		2	1		2	3	1	1			
54																		
56							1	1			2	1					1	7
61			1		1		1	1	1					2			1	9
62			2		1	1	1	1										15
71				1	1		1	3	2		1		3	1	1	1		
72																		4
81															3	1		
112																	1	3
113															1	1	1	
114																	2	2
212																	1	1
312																1		1
313																1		1
314																		
315																		
	13	35	25	26	25	30	21	22	23	11	29	13	30	25	24	27	22	401
				3still			1still		1still	1still	1still		1still	12still	16still	23still	25still	

TABLE

SHOWING THE APPARATUS CALLED TO DIFFERENT BOXES ON FIRST, SECOND, AND THIRD ALARMS.

BOXES.	Steamer on its first run.	Steamer on its second run.	Steamer No. 2.	Steamer No. 3.	Steamer No. 5.	Hose 1.	Hose No. 2.		Hook and Ladder.	Chemical Engine.
							First run.	Second run.		
3.....	1..	2..	3..	1..	3..	1..	3..	3..	1..	1..
4.....	1..	2..	2..	1..	3..	1..	2..	2..	1..	1..
5.....	1..	2..	2..	1..	3..	1..	2..	2..	1..	1..
6.....	1..	1..	3..	2..	2..	1..	1..	2..	1..	1..
7.....	1..	1..	3..	2..	1..	1..	1..	1..	1..	1..
8.....	1..	1..	3..	2..	1..	1..	1..	1..	1..	1..
9.....	2..	3*	3..	3..	1..	1..	2..	2..	1..	1..
12.....	2..	3..	3..	3..	1..	1..	2..	2..	1..	1..
13.....	1..	2..	3..	3..	1..	1..	1..	1..	1..	1..
14.....	1..	2..	3..	3..	1..	1..	1..	1..	1..	1..
15.....	1..	1..	3..	2..	1..	1..	1..	1..	1..	1..
16.....	1..	2..	3..	1..	2..	1..	1..	1..	1..	1..
17.....	1..	2..	3..	1..	3..	1..	1..	1..	1..	1..
18.....	1..	2..	3..	1..	3..	1..	1..	1..	1..	1..
21.....	1..	2..	3..	1..	3..	1..	1..	2..	1..	1..
23.....	1..	2..	3..	1..	3..	1..	1..	2..	1..	1..
24.....	1..	2*	3..	1..	3..	1..	1..	2..	1..	1..
25.....	1..	2..	3..	1..	3..	1..	1..	1..	1..	1..
26.....	1..	2..	3..	1..	3..	1..	1..	1..	1..	1..
27.....	1..	2*	3..	1..	3..	1..	1..	2..	1..	1..
31.....	1..	2..	2..	2..	1..	1..	1..	2..	1..	1..
32.....	1..	2..	2..	3..	1..	1..	1..	2..	1..	1..
34.....	1..	1..	1..	2..	1..	1..	1..	1..	1..	1..
35.....	1..	1..	1..	2..	1..	1..	1..	2..	1..	1..
36.....	1..	1..	1..	2..	2..	1..	1..	2..	1..	1..
41.....	1..	1..	1..	1..	1..	1..	1..	2..	1..	1..
42.....	1..	1..	1..	1..	2..	1..	1..	2..	1..	1..
43.....	1..	2..	1..	1..	3..	1..	2..	2..	1..	1..
45.....	1..	1..	1..	1..	3..	1..	2..	2..	1..	1..
51.....	2..	3..	1..	2..	3..	1..	3..	3..	1..	1..
52.....	1..	3..	1..	2..	3..	1..	3..	3..	1..	1..
53.....	1..	3..	1..	2..	3..	1..	3..	3..	1..	1..
54.....	2..	3*	1..	3..	3..	1..	3..	3..	1..	1..
56.....	2..	3*	1..	2..	3..	1..	3..	3..	1..	1..
61.....	1..	2*	3..	1..	3..	1..	3..	3..	1..	1..
62.....	1..	2*	3..	1..	3..	1..	3..	3..	1..	1..
71.....	1..	2..	3..	1..	3..	1..	2..	2..	1..	1..
72.....	1..	2..	3..	1..	3..	1..	1..	2..	1..	1..
73.....	1..	2..	3..	1..	3..	1..	2..	2..	1..	1..
81.....	1..	1..	3..	2..	2..	1..	1..	2..	1..	1..
112.....	1..	2..	3..	3..	1..	1..	1..	1..	1..	1..
113.....	1..	2..	3..	3..	1..	1..	1..	1..	1..	1..
114.....	1..	2..	3..	3..	1..	1..	1..	1..	1..	1..
212.....	1..	3*	3..	1..	3..	1..	2..	2..	1..	1..
213.....	1..	2*	3..	1..	3..	1..	3..	3..	1..	1..
312.....	1..	2..	1..	3..	2..	1..	2..	2..	1..	1..
313.....	1..	2..	1..	3..	2..	1..	2..	2..	1..	1..
314.....	1..	2*	3..	3..	1..	1..	2..	2..	1..	1..
315.....	2..	3*	3..	3..	1..	1..	3..	3..	1..	1..

* On first alarm, the horses of second-run engine will double on engine of first run.

NUMBER AND LOCATION OF ALARM-BOXES AND KEYS.

No. 3. — Blood's lower shop. Keys at E. P. Johnson Co.'s office, Gas-works office, County Jail, and Charles H. Hutchinson's shop.

No. 4. — Corner of Spruce and Elm streets. Keys at Hotel Belmont, L. B. Bodwell & Co.'s, Palmer & Garmon's, and W. C. Blodgett's office.

No. 5. — Corner of Merrimack and Elm streets. Keys at Tebbetts Brothers' and E. H. Currier's drug stores.

No. 6. — City Hall. Keys at Holland's and Mead's drug stores, and J. A. Riddle's office.

No. 7. — Old City Hotel, corner Lowell and Elm east back streets. Keys at Higgins Bros.', Cavanaugh Bros.' stable, and Eames Bros.' drug store.

No. 8. — Corner Elm and Hollis streets. Keys at Wilson's and Kelley's drug stores, and Partridge Bros.' grain store.

No. 9. — Corner of Elm and Webster streets. Keys at residences of Mrs. H. D. Corliss, J. Freeman Clough, J. B. Jones, and General Stark engine-house.

No. 12. — Corner of North and Pine streets. Keys at residences of William C. Clarke and George Emerson.

No. 13. — Corner of Brook and Chestnut streets. Keys at residences of Welcome Jencks and Lewis Simons, and No. 1 Senter's block.

No. 14. — Corner of Prospect and Union streets. Keys at residences of W. Ireland and N. L. Hardy.

No. 15. — Corner of Pearl and Chestnut streets. Keys at residences of Willie H. Dodge and Ervin S. Lyford.

No. 16. — Corner of Lowell and Union streets. Keys at residences of Rt. Rev. Bishop Bradley and R. H. Hassam.

No. 17. — Corner of Amherst and Beech streets. Keys at residences of H. P. Watts and Michael Connor.

No. 18. — Corner of Manchester and Maple streets. Keys at residences of the late H. E. Stevens, A. N. Baker, and William Perkins.

No. 21. — Corner of Merrimack and Pine streets. Keys at A. D. Smith's drug store, J. McKeon's grocery store, and A. L. Walker's office.

No. 23. — Corner of Central and Beech streets. Keys at residences of Eben T. James and Mrs. Josiah Stevens.

No. 24. — Merrimack Steamer house, corner of Massabesic street and Lake avenue. Keys at residence of D. M. Goodwin and steamer house.

No. 25. — Corner of Hanover and Ashland streets. Keys at residences of George F. Lincoln, A. D. Gooden, Horace Stearns, and the late Horace Gordon.

No. 26. — Corner of Bridge and Russell streets. Keys at McCrillis's carriage-shop and residence of John N. Chase.

No. 27. — Corner of Belmont and Amherst streets. Keys at residences of H. M. Tarbell, A. G. Fairbanks, William B. Orrill, E. S. Fletcher, and George H. Hubbard.

No. 31. — Corner of Canal and Hollis streets, Blood's shop. Keys at office, and residence of Mrs. Mary Howarth, first house south of shop gate.

No. 32. — Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Co.'s mill, Langdon watch-room, and Electric Light Station.

No. 34. — Jefferson Mill. Keys at watch-room and pumping station.

No. 35. — Stark Mills. Keys at watch-room.

No. 36. — Amory Mills. Keys at watch-room.

No. 41. — Amoskeag Mills. Keys at watch-room.

No. 42. — Manchester Mills. Keys at watch-room.

No. 43. — Olzendam's Mill. Keys at watch-room.

No. 45. — The S. C. Forsaith Co.'s shops. Keys at freight depot, S. C. Forsaith Co.'s office, and Lowell's iron foundry office.

No. 51. — Corner of Walker and Second streets, "Germtown." Keys at stores of F. Riedel and William Weber.

No. 52. — Barr's brick block, 'Squog. Keys at Fradd & Co.'s and A. N. Clapp's store, and Merrimack House.

No. 53. — Wallace's steam-mill. Keys at the office and I. R. Dewey's tenement block.

No. 54. — Corner of A and Bowman streets. Keys at residences of Lord sisters and Newell R. Bixby.

No. 56. — Mast road, near Riddle street. Keys at Baldwin's bobbin-shop, and residences of J. C. Smith and E. P. Littlefield.

No. 61. — Corner of River road and Hancock street, Bakersville. Keys at Mary Stack's saloon, Carney, Lynch & Co.'s brewery, and residence of H. F. Dillingham.

No. 62. — Kimball & Gerrish's tannery, River road. Keys at tannery, and residence of Edwin Kennedy.

No. 71. — Corner of Cedar and Pine streets. Keys at residences of T. Collins, Daniel Sheehan, and Thomas J. Smith.

No. 72. — Corner of Park and Lincoln streets. Keys at residences of Austin Jenkins, C. H. Leach, and Clarence D. Palmer.

No. 73. — (To be located corner of Beech and Cedar streets.)

No. 81. — Central Fire Station, Vine street. Keys at all the engine-rooms.

No. 112. — Corner of Sagamore and Union streets. Keys at residences of Woodbury Davison and W. T. Stevens.

No. 113. — Corner of Oak and Prospect streets. Keys at residences of William B. Abbott, H. S. Manville, and E. M. Topliff.

No. 114. — Corner of Pearl and Ash streets. Keys at residences of A. P. Olzendam, G. A. Olzendam, W. S. Shannon and John J. Bennett.

No. 212. — Shoe-shop, Hallsville. Keys at the office of shoe factory, and residences of Charles C. Chase, G. W. Dearborn, Milton A. Abbott, and M. V. B. Garland.

No. 213. — (To be located at sash and blind factory of Austin, Flint & Day, South Beech street, junction of Portsmouth Railroad.)

No. 312. — Corner of Putnam, Main, and McGregor streets. Keys at residences of James Spence (391 Main street) and Thomas Bolton.

No. 313. — Corner of Amory and Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, and Bouthillier & Gingras's drug store.

No. 314. — P. C. Cheney Company's paper-mill. Keys at office and Independent hose house.

No. 315. — Old Brick Store, 'Skeag. Keys at store, hose-house, and Robinson's residence.

Also keys will be found in the hands of all regular police.

The true time from Cambridge Observatory will be given at precisely 12.30 p. m., from Charles A. Trefethen's jewelry store, and will be denoted by one stroke of the fire bells.

INSTRUCTIONS TO KEY-HOLDERS AND CITIZENS.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm-box, the keys to which are in the hands of all regular police, and generally of persons at the corner or nearest houses.

2. Key-holders, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking), and then let go. Shut the door, but do *not* try to remove the key, as it is locked in by a trap-lock, and can only be removed with a release-key, which is carried by each of the engineers, who will, as soon as convenient, release and return it.

3. All persons giving fire-alarms are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box, procure another key, and give an alarm from that.

4. Never signal for a fire seen at a distance. Never touch the box except to give an alarm of fire. Give an alarm for no cause other than actual fire. **DON'T GIVE AN ALARM FOR A CHIMNEY FIRE.**

5. Never let the keys go out of your possession unless called for by the Chief Engineer. *If you change your residence or place of business, where the keys are kept, return the keys to the same officer.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm-boxes near their property, also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire bells in the city, and the number of the box will be given thus: Box 6, six blows, $2\frac{1}{2}$ seconds apart, repeated three times. Box 212, two blows, pause of $6\frac{1}{4}$ seconds, one blow, same pause, and two blows, 2—1—2, repeated three times.

8. The engineers reserve the right to give one stroke of the bells at any time; and, in case of testing the boxes, each test will be preceded by one stroke of the bells.

SCHOOL SIGNAL.

Two strokes, with fifteen seconds between them, close the primary schools; and to close all the schools, two immediate strokes, and after a lapse of fifteen seconds two more immediate strokes, — the time of striking the bells being at 8.05 A. M. for closing the schools during the forenoon, and at 11.05 A. M. or 1.15 P. M. for closing them during the afternoon.

RULES AND REGULATIONS IN REGARD TO RESPONDING TO FIRES AND ALARMS.

The following order has been adopted by the Board of Engineers, and the Fire Department will strictly comply until otherwise ordered, and will attend alarms of fire as follows :

1. Pennacook Hose Co. No. 1, Hook-and-Ladder Co. No. 1, and Chemical Engine Co. No. 1 will report for duty to all boxes on *first alarm*.

2. Amoskeag Steamer Co. No. 1 will report for duty, on days of its first run, on *first alarm* to all boxes *except* 9, 12, 51, 54, 56, 315; on *second alarm*, to all boxes.

SECOND RUN. On *first alarm*, to boxes 6, 7, 8, 15, 34, 35, 36, 41, 42, 45, 81; on *second alarm*, to boxes 3, 4, 5, 13, 14, 16, 17, 18, 21, 23, 24, 25, 26, 27, 31, 32, 43, 61, 62, 71, 72, 73, 112, 113, 114, 213, 312, 313, 314; on *third alarm*, to all other boxes.

3. Fire King Steamer Co. No. 2 will report for duty on *first alarm* to boxes 35, 36, 41, 42, 43, 45, 51, 52, 53, 54, 56, 312, 313; on *second alarm*, to boxes 4, 5, 31, 32; on *third alarm*, to all other boxes.

4. Merrimack Steamer Co. No. 3 will report for duty on *first alarm* to boxes 3, 4, 5, 16, 17, 18, 21, 23, 24, 25, 26, 27, 41, 42, 43, 45, 61, 62, 71, 72, 73, 212, 213; on *second alarm*, to boxes 6, 7, 8, 15, 34, 35, 36, 51, 52, 53, 56; on *third alarm*, to all other boxes.

5. N. S. Bean Steamer Co. No. 4 will report for duty, on days of its first run, on *first alarm* to all boxes *except* 9, 12, 51, 54, 56, 315.

SECOND RUN. On *first alarm*, to boxes 6, 7, 8, 15, 34, 35, 36, 41, 42, 45, 81; on *second alarm*, to boxes 3, 4, 5, 13, 14, 16, 17, 18, 21, 23, 24, 25, 26, 27, 31, 32, 43, 61,

62, 71, 72, 73, 112, 113, 114, 213, 312, 313, 314; on *third alarm*, to all other boxes.

6. Gen. Stark Steamer Co. No. 5 will report for duty on *first alarm* to boxes 7, 8, 9, 12, 13, 14, 15, 31, 32, 34, 35, 112, 113, 114, 314, 315; on *second alarm*, to boxes 6, 16, 36, 41, 42, 81, 312, 313; on *third alarm*, to all other boxes.

7. Massabesic Hose Company No. 2 will report for duty, on days of its first run, on *first alarm* to boxes 6, 7, 8, 13, 14, 15, 16, 17, 18, 21, 23, 24, 25, 26, 27, 31, 32, 34, 35, 36, 41, 42, 72, 81, 112, 113, 114; on *second alarm*, to boxes 4, 5, 9, 12, 43, 45, 71, 73, 212, 312, 313, 314; on *third alarm*, to all other boxes.

SECOND RUN. On *first alarm*, to boxes 7, 8, 13, 14, 15, 16, 17, 18, 25, 26, 34, 112, 113, 114; on *second alarm*, to boxes 4, 5, 6, 9, 12, 21, 23, 24, 27, 31, 32, 35, 36, 41, 42, 43, 45, 71, 72, 73, 81, 212, 313, 314; on *third alarm*, to all other boxes.

8. On the first alarm, from boxes 9, 24, 27, 54, 56, 61, 62, 212, 213, 314, 315, the horses of the second run will double on to the engine of its first run, AND ON THE ARRIVAL AT THE FIRE THE SECOND-RUN HORSES WILL RETURN TO THEIR HOUSE, and in case of an alarm from any box the company will immediately respond with their engine.

9. During the progress of a fire, any of the apparatus not called on that alarm will promptly respond to an alarm from any other box.

10. At any time when an alarm of fire is given, the engine, hose-carriage, or truck that leaves the house first will have the right to lead to the fire. NO RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT, UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.

11. The drivers shall not permit persons not connected with the department to ride upon their apparatus, and in

muddy weather or heavy wheeling they shall not permit any one to ride upon their apparatus when returning from fires.

12. The companies of the department not called on the first alarm will prepare for a start and hold themselves in readiness for a second or third alarm; and, if not needed, one stroke on the bells and gongs by the engineer in charge will be the signal for discharge to all companies remaining at the houses; or in case this one blow is not struck within thirty minutes, companies may consider themselves dismissed, except the drivers, who will remain in the houses with their horses until the two blows to limber up.

13. Two strokes on the bells will be a signal for those at a fire to limber up.

ESTIMATED VALUE OF PROPERTY.

AMOSKEAG STEAM FIRE-ENGINE COMPANY NO. 1.

LOCATED ON VINE STREET.

1 first-class steamer, double-plunger engine and hose-carriage	\$4,000 00
1 pair gray horses	800 00
1 set double harnesses (street work)	60 00
1 pair swinging harnesses	100 00
1,000 feet fabric hose	900 00
100 feet three-inch leather hose	75 00
1 double cart	100 00
1 sled	40 00
Stable fixtures and blankets	30 00
Tools, furniture, and fixtures	200 00
Firemen's suits and badges	200 00
Total amount	<u>\$6,505 00</u>

FIRE KING STEAM FIRE-ENGINE COMPANY NO. 2.

LOCATED ON NORTH MAIN STREET, 'SQUOG.

1 second-class double plunger steamer	\$4,000 00
1 pair bay horses for steamer	800 00
2 single horses	600 00
3 street harnesses, two at \$40, one at \$20	100 00
3 swinging harnesses	150 00
1 four-wheeled hose-carriage	600 00
1 single cart (old)	20 00
1 two-horse cart	75 00
1 double sled	75 00
1 single sled	50 00
2,000 feet fabric hose	1,500 00

Stable fixtures and blankets	\$60 00
Furniture, fixtures, carpets, etc. . . .	466 00
Firemen's suits and badges	150 00

Total amount \$8,646 00

MERRIMACK STEAM FIRE-ENGINE COMPANY NO. 3.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 second-class steamer	\$3,500 00
1 pair black horses	600 00
1 single horse	250 00
3 street harnesses, two at \$50, one at \$40	140 00
3 swinging harnesses	150 00
1 one-horse four-wheeled hose-carriage	600 00
1 double cart	162 50
1 single cart	40 00
1 single sled	40 00
2,000 feet fabric hose	1,500 00
Stable fixtures, blankets, etc.	50 00
Beds, bedding, wardrobe, etc.	75 00

Total amount \$7,107 50

N. S. BEAN STEAM FIRE-ENGINE COMPANY NO. 4.

LOCATED ON VINE STREET.

1 steamer and hose-carriage	\$3,500 00
1 pair bay horses	600 00
1 pair street harnesses	50 00
1 pair swinging harnesses	100 00
2,000 feet Baker fabric hose	800 00
Furniture, fixtures, tools, etc.	250 00
Stable fixtures and blankets	50 00
Firemen's suits and badges	200 00

Total amount \$5,550 00

GENERAL STARK STEAM FIRE-ENGINE COMPANY NO. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-class double-plunger engine	\$3,600 00
2 horses	600 00
3 sets street harnesses	150 00
3 swinging harnesses	150 00
1 combination hose reel and ladder	1,000 00
1 double cart	162 50
1 single cart	115 00
1 double sled	75 00
1 single sled	50 00
2,000 feet fabric hose	1,500 00
Furniture, fixtures, tools, etc.	175 00
Stable fixtures and blankets	60 00
Firemen's suits, badges, etc.	200 00
Total amount	<u>\$7,837 50</u>

E. W. HARRINGTON STEAM FIRE-ENGINE.

LOCATED AT OLD ENGINE-HOUSE, CLINTON STREET.

Old U tank engine	\$500 00
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PENNACOOK HOSE COMPANY NO. 1.

LOCATED ON VINE STREET.

1 four-wheeled hose-carriage	\$600 00
2 horses	600 00
2 single harnesses	60 00
1 single cart	75 00
1 single sled	40 00
1 hose sled	20 00
3,200 feet leather hose, at 80 cents per foot	2,560 00
Furniture and fixtures	200 00

Stable fixtures and blankets	\$60 00
Firemen's suits and badges	175 00
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Total amount	\$4,390 00

MASSABESIC HOSE COMPANY NO. 2.

LOCATED ON MAPLE STREET, CORNER EAST HIGH.

1 four-wheeled horse hose-carriage	\$600 00
1 bay horse	350 00
1 street harness	40 00
1 swinging harness	50 00
1 single cart	60 00
1 single sled	40 00
2,000 feet leather hose, at 80 cents per foot	1,600 00
Furniture and fixtures	100 00
Firemen's suits and badges	175 00
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Total amount	\$3,015 00

EXCELSIOR HOOK-AND-LADDER COMPANY NO. 1.

LOCATED ON VINE STREET.

1 hook-and-ladder truck	\$1,700 00
1 reserve truck	500 00
1 pair bay horses	600 00
1 pair exercise harnesses	30 00
1 pair swinging harnesses	100 00
2 extra Bangor extension ladders	360 00
6 rubber blanket covers	144 00
Furniture and fixtures	200 00
Stable fixtures and blankets	35 00
Firemen's suits and badges	280 00
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Total amount	\$3,949 00

CHEMICAL ENGINE COMPANY NO. 1.

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine	\$2,250 00
1 pair black horses	750 00
1 pair exercise harnesses	30 00
1 pair swinging harnesses	100 00
Furniture and fixtures	60 00
Stable fixtures and blankets	50 00
Firemen's suits and badges	35 00
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Total amount	\$3,275 00

SUPPLY WAGON.

1 supply wagon with boxes and engineers' lanterns	\$312 00
5 rubber coats	15 00
6 rubber blanket covers	144 00
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Total amount	\$471 00

SPARE HOSE.

AT CENTRAL STATION, VINE STREET.

1,100 feet leather hose	\$880 00
400 feet fabric hose	450 00
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Total amount	\$1,330 00

HOSE WAGON.

LOCATED AT WEBSTER-STREET ENGINE-HOUSE.

1 four-wheeled hose wagon	\$450 00
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EXERCISE WAGON.

CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole and shafts	\$40 00
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ENGINEERS' DEPARTMENT.

Fire hats	\$7 50
Furniture and fixtures	175 00
Total amount	<u>\$182 50</u>

INDEPENDENT HOSE COMPANY NO. 5.

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hand hose-carriage	\$400 00
1,000 feet leather hose	600 00
2 hose-pipes, spanners, etc	40 00
Total amount	<u>\$1,040 00</u>

GOFFE'S FALLS HOSE-CARRIAGE.

LOCATED AT DERRY MILLS.

1 two-wheeled hose-carriage	\$50 00
300 feet fabric hose	200 00
2 hose-pipes	10 00
Total amount	<u>\$260 00</u>

SLEEPING HALL.

AT CENTRAL STATION, VINE STREET.

7 beds, bedding, wardrobes, etc.	\$275 00
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FIRE-ALARM TELEGRAPH.

At cost (including additions previous to 1885)	\$21,625 00
Remodeling in 1885	6,000 00
Additions in 1886	775 00
“ in 1887	375 00
“ in 1888	575 00
“Individual Tapper” system	3,000 00
Wire, ladders, etc.	100 00
Total	<u>\$32,450 00</u>

RECAPITULATION.

Amoskeag Steam Fire-Engine Co. No. 1	\$6,505 00
Fire King Steam Fire-Engine Co. No. 2	8,646 00
Merrimack Steam Fire-Engine Co. No. 3	7,107 50
N. S. Bean Steam Fire-Engine Co. No. 4	5,550 00
General Stark Steam Fire-Engine Co. No. 5	7,837 50
Pennacook Hose Co. No. 1	4,390 00
Massabesic Hose Co. No. 2	3,015 00
Excelsior Hook-and-Ladder Co. No. 1	3,949 00
E. W. Harrington Steam Fire-Engine (old)	500 00
Chemical Engine Co. No. 1	3,275 00
Supply Wagon	471 00
Independent Hose Company No. 5	1,040 00
Goffe's Falls Hose Carriage	260 00
Sleeping Hall	275 00
Spare Hose	1,330 00
Hose Wagon	450 00
Exercise Wagon	40 00
Engineers' Department	182 50
Fire-Alarm Telegraph	32,450 00
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	\$87,273 50

NAMES AND RESIDENCES OF THE MEMBERS OF THE FIRE DEPARTMENT.

BOARD OF ENGINEERS.

Badge No.	NAME.	Rank.	Occupation.	Residence.
1	Thomas W. Lane...	Chief.....	Bookseller.....	1937 Elm Street.
3	Fred S. Bean.....	Assistant and clerk.	Machinist.....	102 Orange St.
2	Ruel G. Manning..	Assistant.....	Carpenter.....	52 Douglas St.
4	Eugene S. Whitney.	Assistant.....	Supt. Electric Light..	River R'd north.
5	Clarence D. Palmer	Assistant.....	Marble-worker.....	Lake Avenue.

AMOSKEAG STEAM FIRE-ENGINE COMPANY NO. 1.

House on Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
7	Charles F. McCoy..	Foreman.....	Machinist.....	5 M. S. B.
12	Artemas C. Barker.	Assistant Foreman.	Currier.....	453 Pine Street.
8	Frank E. Stearns..	Clerk.....	Paper-hanger.....	389 Lake Avenue.
6	Charles F. Hall....	Engineer.....	Machinist.....	45 W Merrimack St
13	Joseph H. Gould...	Assistant Engineer.	".....	1087 Elm Street.
11	Charles H. Rogers..	Driver.....	Teamster.....	28 Vine Street.
14	John H. Stone.....	Hoseman.....	Painter.....	106 Bridge Street.
16	Frank B. Marston..	".....	Carpenter.....	11 M. S. B.
19	Henry A. Boone ...	".....	Machinist.....	19 M. S. B.
17	George E. Cassidy..	".....	Carpenter.....	31 Spring Street.
15	Thomas J. Wyatt ..	".....	".....	44 Middle Street.
18	James L. Brock....	".....	Tinsmith.....	31 Spring Street.
10	Lewis G. Bryant...	".....	Teamster.....	12 M. S. B.
9	E. H. Smith.....	".....	".....	42 Market Street.

FIRE KING STEAM FIRE-ENGINE COMPANY NO. 2.

House on North Main Street, 'Squog.

Badge No.	NAME.	Rank.	Occupation.	Residence.
66	Joseph H. Alsop...	Foreman.....	Manufacturer.....	54 Douglas Street.
67	David G. Mills.....	Assistant Foreman.	Carpenter	34 Parker Street.
68	John Martin.....	Clerk.....	Machinist	624 No. Main St.
120	Thomas F. Dodge..	Engineer	"	Engine-house.
119	Stephen Thomes...	Assistant Engineer.	Carpenter	55 Douglas Street.
76	George E. Varnum.	Driver of Steamer..	Teamster.....	Engine-house.
69	Arthur W. Whitcomb	Driver of Hose ...	"	"
72	Samuel A. Hill.....	Hoseman	Carpenter	86 School Street.
75	Robert I. Hill.....	"	"	86 " "
70	John T.G. Dinsmore	"	"	48 Dover Street.
71	Charles G. Ranno..	"	Harness manufacturer	63 Parker Street.
77	Daniel B. Emery...	"	Machinist.....	William Street.
73	Charles S. Cousins.	"	Harness-maker	53 Douglas Street.
73	Thomas E. Foote...	"	Wool-sorter.....	56 North Main St.

MERRIMACK STEAM FIRE-ENGINE COMPANY NO. 3.

House on Lake Avenue, corner Massabesic.

Badge No.	NAME.	Rank.	Occupation.	Residence
80	Clarence R. Merrill.	Foreman	Grain dealer.....	414 Merrimack St.
84	Charles H. Colburn.	Assistant Foreman.	Carpenter	286 Laurel Street.
85	Wm. P. Emerson...	Clerk.....	"	286 Laurel Street.
121	George B. Forsaith.	Engineer.....	Machinist.....	196 Laurel Street.
122	Edwin E. Weeks...	Assistant Engineer.	"	326 Manchester St.
87	George H. Wheeler.	Driver of Steamer .	Teamster	383 Central Street.
81	Alphonso E. Foster.	Driver of Hose.....	"	Hose-house.
82	John S. Avery.....	Hoseman	Janitor.....	404 Merrimack St.
83	James W. Lathe....	"	Carpenter	302 Laurel Street.
86	Frank F. Porter....	"	Manufacturer.....	357 Lake Avenue.
89	Parker R. Brown...	"	Clerk.....	422 Merrimack St.
78	George Dunnington	"	Harness-maker....	570 Wilson Street.
88	Fred S. Sloan.....	"	Painter.....	58 Massabesic St.
79	Louis N. Dufrain...	"	Plumber.....	373 Hall Street.

N. S. BEAN STEAM FIRE-ENGINE COMPANY NO. 4.

House on Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
29	George W. Bacon ..	Foreman	Carpenter	65 Stark Corp.
26	L. J. Chandler.....	Assistant Foreman.	Clerk.....	123 Orange St.
27	Walter Morse.....	Clerk.....	Machinist	556 Chestnut St.
24	Albert Merrill... .	Engineer.....	"	96 Bridge St.
21	Edgar G. Abbott... .	Assistant Engineer.	"	543 Chestnut St.
31	Frank J. Dustin... .	Driver.....	Teamster.....	20 Vine St.
28	Willie H. Dodge ...	Hoseman	Fireman.....	530 Chestnut St.
33	H. C. Morrill.....	"	Machinist.....	556 Chestnut St.
23	George A. Cann....	"	Watchman.....	307 Chestnut St.
32	Benj.R. Richardson	"	Machinist.....	95 Orange St.
20	Lucius B. Snelling.	"	Pharmacist	37 Water St.
30	Ellsworth V. Rowe.	"	Section Hand	1261 Elm St.
22	Walter A. Clarkson	"	Carpenter.....	123 Orange St.
25	Frank B. Stevens..	"	Clerk.....	301 Amherst St.

CHEMICAL ENGINE COMPANY NO. 1.

House on Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
116	George N. Burpee..	Foreman.....	Electrician	99 Bridge St.
115	Jesse W. Truell....	Clerk.....	Teamster.....	153 Hanover St.
117	Warren F. Wheeler	Driver.....	Teamster.....	8 Vine St.
118	Frank A. Pherson..	Engineer	Machinist.....	8 Vine St.

GENERAL STARK STEAM FIRE-ENGINE COMPANY NO. 5.

House corner Webster and Chestnut Streets.

Badge No.	NAME.	Rank.	Occupation.	Residence.
43	George W. Cheney.	Foreman.....	Machinist.....	1490 Elm Street.
123	George R. Simmons	Assistant Foreman.	"	82 Pennacook Street.
49	Charles W. Brown.	Clerk.....	Clerk.....	16 Hazel Street.
42	Daniel W. Morse...	Engineer.....	Machinist.....	1419 Elm Street.
102	Arthur W. Bond...	Assistant Engineer	Engineer.....	9 Langdon Corp.
125	Jeremiah Lane.....	Driver of Steamer..	Teamster.....	Engine-house.
124	Martin W. Ford, Jr.	Driver of Hose.....	"	Engine-house.
101	Milo B. Wilson ...	Hoseman	Mason.....	48 Blodget Street.
46	Woodbury Davison.	"	Carpenter	785 Union Street.
47	Russell L. Cilley...	"	Book-keeper.....	1449 Elm Street.
95	Edward H. Clough.	"	Meat dealer.....	41 Appleton Street.
108	Walter K. Sanborn.	"	Clerk.....	735 Pine Street.
41	Arthur A. Smith...	"	Blacksmith.....	River Road, north.
99	John J. Kelley.....	"	Machinist.....	River Road, north.

PENNACOOK HOSE COMPANY NO. 1.

House on Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
34	Albert Maxfield...	Foreman.....	Belt-maker....	23 M. S. B.
36	Joseph E. Merrill..	Assistant Foreman.	Currier.....	21 Ash Street.
50	Frank D. Burleigh.	Clerk.....	Carpenter ..	6 M. S. B.
37	Walter L. Blenus...	Driver.....	Teamster.....	26 Vine Street.
38	George H. Porter...	Hoseman	Carpenter	279 Laurel Street.
39	Will G. Chase... ..	"	Photographer.....	217 Central Street.
48	Albert A. Puffer....	"	Railroad employé ..	120 Concord Street.
52	Charles B. French..	"	Carpenter.....	18 M. S. B.
53	John E. Sanborn...	"	"	274 Laurel Street.
35	Samuel W. Patten..	"	Belt-maker	3 M. S. B.
45	George I. Ayer. ..	"	Electrician	28 M. S. B.
51	Edwin A. Durgin...	"	Machinist	22 M. P. W.

MASSABESIC HOSE COMPANY NO. 2.

House on Maple Street, corner East High.

Badge No.	NAME.	Rank.	Occupation.	Residence.
54	John F. Seaward...	Foreman	Carpenter	27 Warren Street.
60	William S. McLeod.	Assistant Foreman.	Grainer....	58 Nashua Street.
58	Henry G. Seanan..	Clerk.....	Carpenter.....	14 South Street.
57	Walter Seaward....	Driver.....	Teamster.....	521 Maple Street.
55	Revalo G. Houghton	Hoseman.....	Gas-fitter..	288 Bridge Street.
56	George W. Huntley.	"	Plumber.....	1211 Elm Street.
59	Jos. W. Batchelder.	"	Carpenter.....	521 Maple Street.
64	Albert E. Batchelder	"	"	12 Wilson Street.
65	Fred S. Lewis.....	"	Plumber.....	27 South Street.
61	George H. Shepard.	"	Tinsmith.....	8 South Street.
62	Julien B. Huntley..	"	Plumber	36 Dutton Street.
63	Frank E. Heald....	"	Book-keeper	289 Concord Street.

EXCELSIOR HOOK-AND-LADDER COMPANY NO. 1.

House on Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
91	Jerome J. Lovering.	Foreman.....	Carpenter.....	300 Pine Street.
111	Roscoe Dyer.....	Assistant Foreman.	Machinist.....	36 Water Street.
105	Jesse B. Nourse....	Clerk.....	Carpenter.....	Gore Street.
93	Winfield S. Leavitt.	Treasurer.....	Mechanic.....	96 Prospect Street.
94	Charles M. Denyou.	Driver.....	Teamster.....	18 Vine Street.
92	Oscar P. Stone....	Fireman.....	Clerk.....	326 Granite Street.
96	James Orrill.....	".....	Barber.....	100 Blodget Street.
98	John N. Chase....	".....	Overseer.....	276 Bridge Street.
114	John Wilson.....	".....	Carpenter.....	287 Bridge Street.
100	Hiram P. Young..	".....	Taxidermist.....	33 Dutton Street.
103	Luther J. Flint....	".....	Carpenter.....	4 Dutton Street.
104	Harrison H. Cole..	".....	".....	45 M. S. B.
106	Charles H. Cross...	".....	Clerk.....	201 Walnut Street.
113	Ralph Pearson....	".....	Box-maker.....	20 Warren Street.
109	George M. Jones...	".....	Gardener.....	1068 Elm Street.
112	Sanborn T. Worthen	".....	Carpenter.....	493 Maple Street.
110	Pharis E. Rogers...	".....	Mason.....	100 Orange Street.
90	Henry Johnson....	".....	Piper.....	20 M. S. B.
97	Charles W. Bailey..	".....	Carriage-maker.....	265 Concord Street.
107	Henry Heap.....	".....	Manufacturer.....	4 Whitney Street.

INDEPENDENT HOSE COMPANY NO. 5.

House corner of Old Falls Road and Front Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
133	Charles E. Stearns.	Foreman.....	Milk dealer.....	Front Street.
134	Thomas Hamilton..	Assistant Foreman.	Handle-maker.....	Goffstown Road.
135	Clarence H. Stearns	Clerk	Clerk.....	Front Street.
136	George Lawrence..	Steward.....	Milk dealer.....	" "
137	Sherman L.Flanders	Hoseman.....	Grocer.....	" "
138	George P. Glidden..	"	Machinist	Dunbarton Road.
139	John Doherty.....	"	Teamster	Mill Street.
140	Walter E. Harvey..	"	Paper-maker.....	Front Street.
141	D. L. Robinson.....	"	Butcher.....	" "
144	A. D. Maxwell.....	"	Ice dealer.....	" "
142	Alvah R. Mack....	"	Teamster	61 Appleton Street.
143	William F. Stearns.	"	Shoemaker	Front Street.
145	F. P. Gove.....	"	Clerk.....	" "
146	Benjamin Herbert..	"	Mechanic.....	" "
147	H. A. Moynihan ...	"	"	" "
149	E. G. Reed	"	Milk dealer.....	" "
148	Sherman L. Greer..	"	"	" "
150	Fred E. Wilson.....	"	Clerk	" "

LOCATION OF HYDRANTS.

- Amherst, northwest corner of Vine street.
 Amherst, southwest corner of Chestnut street.
 Amherst, northwest corner of Pine street.
 Amherst, northwest corner of Union street.
 Amherst, northwest corner of Walnut street.
 Amherst, northwest corner of Beech street.
 Amherst, northwest corner of Maple street.
 Amherst, northwest corner of Lincoln street.
 Amherst, northwest corner of Ashland street.
 Amherst, northwest corner of Hall street.
 Amherst, northwest corner of Belmont street.
 Appleton, northwest corner of Elm street.
 Appleton, northwest corner of Chestnut street.
 Appleton, northwest corner of Pine street.
 Appleton, northwest corner of Union street.
 Arlington, northwest corner of Cross street.
 Arlington, northwest corner of Warren street.
 Arlington, northwest corner of Ashland street.
 Ash, front of No. 32.
 Auburn, corner of Franklin street.
 Auburn, northeast corner of Elm street.
 Auburn, front of No. 40.
 Auburn, northwest corner of Chestnut street.
 Auburn, northwest corner of Adams street.
 Auburn, northwest corner of Union street.
 Auburn, northwest corner of Beech street.
 Baker, corner of Elm street.
 Baker, corner of River road.
 Baker, corner of Calef road.
 Baker, corner of Nutt road.
 Bedford, northwest corner of Granite street.
 Bedford, near No. 36 M. P. W. corporation.

- Bedford, northwest corner of Central street.
Beech, northwest corner of Park street.
Beech, front of No. 584.
Belmont, near No. 345.
Birch, northwest corner of Lowell street.
Birch, northwest corner of Washington street.
Blodget, front of primary schoolhouse.
Blodget, northwest corner of Chestnut street.
Blodget, northwest corner of Pine street.
Blodget, northwest corner of Union street.
Bridge, front of No. 26.
Bridge, northwest corner of Chestnut street.
Bridge, northwest corner of Union street.
Bridge, northwest corner of Walnut street.
Bridge, northwest corner of Beech street.
Bridge, northwest corner of Ash street.
Bridge, northwest corner of Maple street.
Bridge, near No. 242.
Bridge, northwest corner of Russell street.
Bridge, northwest corner of Linden street.
Bridge, corner of Ashland street.
Bridge, corner of Hall street.
Brook, northwest corner of P. Adams's lot.
Brook, northwest corner of Chestnut street.
Brook, northwest corner of Pine street.
Brook, northwest corner of Union street.
Brook, northwest corner of Beech street.
Brook, northwest corner of Ash street.
Calef road, near Patrick Harrington's.
Calef road, near D. T. Smith's house.
Canal, near east corner of Depot street.
Canal, near office door of M. L. W.
Cedar, front of No. 36.
Cedar, northwest corner of Chestnut street.

- Cedar, northwest corner of Pine street.
 Cedar, northwest corner of Union street.
 Cedar, northwest corner of Beech street.
 Cedar, northwest corner of Maple street.
 Cedar, northwest corner of Lincoln street.
 Central, northwest corner of Chestnut street.
 Central, northwest corner of Pine street.
 Central, northwest corner of Union street.
 Central, near gate, Merrimack square.
 Central, northwest corner of Beech street.
 Central, northwest corner of Maple street.
 Central, northwest corner of Lincoln street.
 Central, front of No. 374.
 Central, northwest corner of Wilson street.
 Central, northwest corner of Hall street.
 Chestnut, northwest corner of Lowell street.
 Chestnut, opposite High street.
 Chestnut, northwest corner of Pearl street.
 Chestnut, northwest corner of Orange street.
 Chestnut, northwest corner of Myrtle street.
 Chestnut, northwest corner of Prospect street.
 Clarke, northwest corner of Elm street.
 Clarke, northwest corner of Chestnut street.
 Concord, opposite Vine street.
 Concord, northwest corner of Chestnut street.
 Concord, northwest corner of Union street.
 Concord, northwest corner of Walnut street.
 Concord, northwest corner of Beech street.
 Concord, northwest corner of Maple street.
 Concord, northwest corner of old Amherst street.
 Concord, northwest corner of Ashland street.
 Concord, northwest corner of Hall street.
 Concord, northwest corner of Belmont street.
 Cypress, south end of street.

- Cypress, at Manchester shoe-shop.
 Dean, northeast corner of Canal street.
 Dean, northwest corner of Elm street.
 Depot, northeast corner of Elm street.
 Elm, front of Temple & Farrington Co.'s bookstore.
 Elm, northwest corner of Salmon street.
 Elm, northwest corner of Cove street.
 Franklin, opposite Middle street.
 Gore, corner of Beech street.
 Granite, northwest corner of Elm street.
 Granite, near Franklin street.
 Granite, northeast corner of Canal street.
 Granite, east end of Granite bridge.
 Grove, corner of Elm street.
 Hancock street.
 Hancock, northwest corner of River road.
 Hancock, near brewery.
 Hanover, front of Opera House.
 Hanover, northwest corner of Chestnut street.
 Hanover, northwest corner of Pine street.
 Hanover, northwest corner of Union street.
 Hanover, northwest corner of Beech street.
 Hanover, northwest corner of Maple street.
 Hanover, northwest corner of Lincoln street.
 Hanover, northwest corner of Ashland street.
 Hanover, northwest corner of Hall street.
 Hanover, northwest corner of Belmont street.
 Harrison, opposite No. 15.
 Harrison, northwest corner of Chestnut street.
 Harrison, northwest corner of Pine street.
 Harrison, northwest corner of Union street.
 Harrison, northwest corner of Beech street.
 Harrison, northwest corner of Maple street.
 Harrison, northwest corner of Oak street.

- Harrison, northwest corner of Russell street.
 High, corner of Ashland street.
 High, corner of South street.
 High, fifty feet east of Wilson road.
 Hollis, northeast corner of Canal street.
 Hollis, northeast corner of Hobbs street.
 Hollis, northwest corner of Elm street.
 Kidder, northeast corner of Canal street.
 Kidder, northeast corner of Hobbs street.
 Kidder, northwest corner of Elm street.
 Kidder's court, northwest corner of Elm street.
 Lake avenue, near No. 36.
 Lake avenue, northwest corner of Chestnut street.
 Lake avenue, northwest corner of Union street.
 Lake avenue, northwest corner of Maple street.
 Lake avenue, northwest corner of Lincoln street.
 Lake avenue, northwest corner of Wilson street.
 Lake avenue, east end.
 Langdon, northwest corner of Elm street.
 Langdon, northeast corner of Canal street.
 Laurel, northwest corner of Pine street.
 Laurel, northwest corner of Union street.
 Laurel, northwest corner of Beech street.
 Laurel, northwest corner of Maple street.
 Laurel, northwest corner of Lincoln street.
 Laurel, near No. 244.
 Laurel, northwest corner of Wilson street.
 Laurel, near Belmont street.
 Laurel, northwest corner of Milton street.
 Laurel, northwest corner of Beacon street.
 Lowell, northwest corner of Beech street.
 Lowell, northwest corner of Ash street.
 Lowell, northwest corner of South street.
 Lowell, front of No. 276.

- Lowell, northwest corner of Wilson road.
 Lowell, northwest corner of Ashland street.
 Mammoth road.
 Manchester, front of James Bros.' stable.
 Manchester, northwest corner of Central street.
 Manchester, northwest corner of Pine street.
 Manchester, northwest corner of Union street.
 Manchester, northwest corner of Beech street.
 Manchester, northwest corner of Maple street.
 Manchester, northwest corner of Lincoln street.
 Manchester, northwest corner of Wilson street.
 Manchester, northwest corner of Hall street.
 Manchester, northwest corner of Belmont street.
 Maple, northwest corner of Lowell street.
 Maple, front of No. 350.
 Market, near Canal street.
 Market, near second back street west of Elm street.
 Market, northwest corner of Elm street.
 Massabesic, northwest corner of Old Falls road.
 Massabesic, southeast corner of Taylor street.
 Massabesic avenue.
 Massabesic, near Mammoth road.
 Mechanics, northeast corner of Canal street.
 Mechanics, near second back street west of Elm street.
 Mechanics, northwest corner of Elm street.
 Merrimack, opposite gate, Merrimack square.
 Merrimack, northwest corner of Chestnut street.
 Merrimack, northwest corner of Pine street.
 Merrimack, northwest corner of Union street.
 Merrimack, northwest corner of Beech street.
 Merrimack, northwest corner of Maple street.
 Merrimack, northwest corner of Lincoln street.
 Merrimack, near No. 362.
 Merrimack, northwest corner of Wilson street.

- Merrimack, northwest corner of Hall street.
 Merrimack, near Belmont street.
 Merrimack, northwest corner of Beacon street.
 Middle, northeast corner of Canal street.
 Middle, near No. 67 Amoskeag corporation.
 Monroe, northwest corner of Elm street.
 Myrtle, opposite No. 33.
 Myrtle, northwest corner of Pine street.
 Myrtle, northwest corner of Union street.
 Myrtle, northwest corner of Walnut street.
 Myrtle, northwest corner of Beech street.
 Myrtle, northwest corner of Ash street.
 Myrtle, northwest corner of Maple street.
 Myrtle, northwest corner of Oak street.
 Myrtle, northwest corner of Russell street.
 North, northwest corner of Bay street.
 North, northwest corner of Chestnut street.
 North, northwest corner of Pine street.
 North, corner of Liberty street.
 Orange, opposite Clark's avenue.
 Orange, northwest corner of Pine street.
 Orange, northwest corner of Union street.
 Orange, northwest corner of Walnut street.
 Orange, northwest corner of Beech street.
 Orange, corner of Ash street.
 Orange, corner of Maple street.
 Orange, corner of Oak street.
 Orange, corner of Russell street.
 Pearl, northwest corner of Elm street.
 Pearl, northwest corner of Clark's avenue.
 Pearl, northwest corner of Pine street.
 Pearl, northwest corner of Union street.
 Pearl, corner of Beech street.
 Pearl, corner of Walnut street.

- Pearl, northwest corner of Ash street.
 Pearl, northwest corner of Maple street.
 Pearl, northwest corner of Oak street.
 Pearl, northwest corner of Russell street.
 Pearl, northwest corner of Linden street.
 Pearl, northwest corner of Ashland street.
 Pennacook, northwest corner of Chestnut street.
 Pennacook, northwest corner of Pine street.
 Pennacook, northwest corner of Union street.
 Pine, near Road House.
 Pine, northwest corner of Lake avenue.
 Pine, northwest corner of Hanover street.
 Pine, northwest corner of Concord street.
 Pine, northwest corner of Lowell street.
 Pine, northwest corner of High street.
 Pine, northwest corner of Bridge street.
 Pleasant, northeast corner of Canal street.
 Pleasant, near No. 35 Manchester corporation.
 Pleasant, northwest corner of Franklin street.
 Pleasant, northwest corner of Elm street.
 Prospect, between Elm and Chestnut streets.
 Prospect, northwest corner of Chestnut street.
 Prospect, northwest corner of Pine street.
 Prospect, northwest corner of Union street.
 Prospect, northwest corner of Walnut street.
 Prospect, northwest corner of Beech street.
 Prospect, northwest corner of Ash street.
 Prospect, northwest corner of Maple street.
 Prospect, northwest corner of Oak street.
 Prospect, northwest corner of Russell street.
 Reservoir, on force main.
 River road (north), north of Webster street.
 River road (north), near Mrs. John Kelly's.
 River road (north), near J. Otis Clark's.

- River road (south), near gate of tannery.
 Shasta, corner of Elm street.
 Shasta, corner of River road.
 Shasta, corner of Beech street.
 Spring, northeast corner of Canal street.
 Spring, northwest corner of Charles street.
 Spring, northwest corner of Elm street.
 Spruce, northwest corner of Chestnut street.
 Spruce, northwest corner of Pine back street.
 Spruce, northwest corner of Union street.
 Spruce, between Chestnut and Elm streets.
 Spruce, northwest corner of Beech street.
 Spruce, northwest corner of Maple street.
 Spruce, northwest corner of Lincoln street.
 Spruce, northwest corner of Wilson street.
 Stark, northeast corner of Canal street.
 Stark, near No. 13 Stark corporation.
 Stark, northwest corner of Elm street.
 State, northwest corner of Granite street.
 State, opposite No. 57 Manchester corporation.
 State, opposite No. 13 Manchester corporation.
 State, corner of West Central street.
 Summer, corner of Elm street.
 Union, northwest corner of Lowell street.
 Union, northwest corner of High street.
 Valley, northwest corner of Elm street.
 Valley, northwest corner of Willow street.
 Valley, northwest corner of Beech street.
 Valley, northwest corner of Wilson street.
 Valley, northwest corner of Belmont street.
 Valley, northwest corner of Taylor street.
 Valley, northwest corner of Cypress street.
 Valley, northwest corner of Jewett street.
 Valley, 150 feet east of J. L. Woodman's.

- Walnut, northwest corner of Lowell street.
 Walnut, opposite No. 79.
 Water, near No. 38 Amoskeag corporation.
 Water, northwest corner of Elm street.
 Webster, northwest corner of Chestnut street.
 Webster, corner of Adams street.
 Webster, northwest corner of Union street.
 West Auburn, northeast corner of Canal street.
 West Bridge, northeast corner of Canal street.
 West Bridge, northeast corner of Hobbs street.
 West Bridge, northwest corner of Elm street.
 West Brook, northeast corner of Canal street.
 West Brook, northwest corner of Elm street.
 West Cedar, northeast corner of Canal street.
 West Cedar, northwest corner of Elm street.
 West Central, northeast corner of Canal street.
 West Central, corner of Franklin.
 West Central, northwest corner of Elm street.
 West Merrimack, northeast corner of Canal street.
 West Merrimack, near 111 Amoskeag corporation.
 West Merrimack, northwest corner of Franklin street.
 West Merrimack, northwest corner of Elm street.
 West Pennacook, northwest corner of Elm street.
 West Webster, northwest corner of Elm street.
 West Webster, northeast corner of River road.
 Wilson, corner of Lake avenue.
 Young, corner of Elm street.
 Young, northwest corner of Beech street.
 Young, corner of Maple street.
 Young, 96 feet east of R. N. Batchelder's.

PISCATAQUOG AND MCGREGORVILLE.

- A, corner of South Main street.
- A, near No. 73.
- A, northwest corner of B street.
- Adams, corner of Main street.
- Amory, corner of Beauport street.
- Amory, near Dubuque street.
- Bath, corner of River street.
- Bath, corner of Shirley street.
- Bennington, corner of Main street.
- Bedford road, near Huntress's.
- Blaine, corner of Cleveland street.
- Blaine, east end of street.
- Bowman street, opposite cemetery.
- C street, corner of Bedford road.
- Cartier, corner of Putnam street.
- Carroll street.
- Clinton, corner of Dover street.
- Clinton, corner of South Main street.
- Douglas, corner of Quincy street.
- Douglas, corner of Green street.
- Douglas, corner of Barr street.
- Douglas, corner of West street.
- Douglas, corner of Main street.
- Douglas, east of Main street.
- Ferry, corner of Main street.
- Granite, corner of Quincy street.
- Granite, corner of Green street.
- Granite, corner of Barr street.
- Granite, corner of West street.
- Granite, corner of Dover street.
- Granite, corner of Main street.
- Granite, corner of Shirley street.

- Granite, corner of River street.
Kelly, corner of Beauport street.
Main, opposite the Rice house.
Marion, corner of McGregor street.
Mast, corner of South Main street.
Mast, corner of Bowman street.
Mast, between Bowman and South Main streets.
Mast, opposite J. C. Smith's house.
Mast, near J. P. Brock's.
Mast, near the J. N. Prescott house.
McGregor, near Johnson block.
McGregor, opposite "Reed" house.
Milford, southwest corner of South Main street.
Milford, southeast corner of Bowman street.
Milford, corner of Old Bedford road.
Patten, corner of Ferry street.
Putnam, corner of Main street.
Putnam, corner of Beauport street.
Putnam, corner of Dubuque street.
Riddle, near Mast street.
School, corner of South Main street.
School, opposite schoolhouse.
School, corner of River street.
Shirley, northwest corner of Walker street.
Shirley, southwest corner of Ferry street.
Sullivan, corner of Main street.
Sullivan, corner of Beauport street.
Temple, corner of Main street.
Walker, corner of River street.
Walker, corner of Patten street.
Walker, corner of Parker street.
Walker, near corner of South Main street.
Wayne, near G. Belisle's house.
Wayne, near corner of Beauport street.

Wayne, near corner of Main street.
 Winter, corner of South Main street.

AMOSKEAG.

Dunbarton road, corner of Front street.
 Dunbarton road, near L. D. Colby's.
 Goffstown road, four hydrants.
 Main, at Robinson's slaughter-works.
 Main, near brick schoolhouse.
 Main, corner of Goffstown road.
 Main, opposite the John E. Stearns house.
 Main, near the Hiram Stearns house.
 Mill, near paper-mill.
 Mill, corner of Main street.
 Varnum, corner of Main street.

In addition to the above, there are five private hydrants that are available in case of need:

Two at P. C. Cheney Co.'s paper-mill.
 One at S. C. Forsaith Co.'s machine shop.
 One at J. Hodge's wood-working establishment.
 One at A. H. Lowell's iron foundry.
 Total number, 426.

REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.

REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.

To the City Councils of the City of Manchester :

The Trustees of the City Library present herewith their thirty-fifth annual report of the affairs of the library, together with the report made to them by the treasurer of the board, showing the amounts received and the expenditures made by him in behalf of the board from the funds in their possession and under their control, and also the report of the librarian, which gives in detail the statistics and operations of the library during the year, and the condition of the library and property under her charge at the close of the year.

From the report of the treasurer it appears that there has been expended during the year, for the purchase of books, the sum of nine hundred and eighty-one dollars and ninety-six cents, and for the purchase of periodicals the sum of one hundred and ninety dollars and fifty-one cents, making a total expenditure for both these purposes of eleven hundred and seventy-two dollars and forty-seven cents. Of the amount expended for the purchase of books, the sum of four hundred and five dollars and thirty-seven cents was derived from the income of the Dean Fund and applied to the purchase of additional books for that department of the library. The balance in the hands

of the treasurer, at the close of the year, of the amount appropriated by the City Councils for the purchase of books, was one thousand and sixty-three dollars and fifty-nine cents.

The balance of the income of the Dean Fund, with the accumulated interest thereon, unexpended at the close of the year, was five thousand one hundred and eleven dollars and fifty-two cents.

The accumulated income of the Mary E. Elliot Fund at the close of the year was three hundred and ten dollars and twenty-four cents. It is expected that the trustees will soon be able to commence the purchase of books from the income of this fund.

The incidental expenses of the library for the year, as reported to the trustees by the treasurer, have been two thousand and forty-six dollars and thirty-five cents. No bill for coal for the library for the past year has been approved by the trustees. A supply of coal was furnished the library without consultation with the trustees, and thus far no return of the amount supplied has been made to the board or its officers. The items of the incidental expenditures approved by the trustees, with the above exception, may be found in detail in the annual report of the city.

The report of the librarian shows that the library has been open three hundred and six days for the delivery of books, during which time the number of books delivered for home use was fifty thousand four hundred and seventeen. In addition to this number delivered for general circulation, six thousand and thirty-one books and magazines have been delivered for use in the reading-room at the library, making the total number delivered during the year fifty-six thousand four hundred and forty-eight; an average of one hundred and eighty-four per day. As

compared with the circulation of the previous year, this shows a slight increase.

The number of volumes in the library at the date of the last report was thirty thousand three hundred and seven. During the year there have been added by purchase five hundred and ninety three volumes, by donation two hundred and sixty two volumes, and eighty-eight volumes of periodicals have been bound, making the number of bound volumes in the library at the close of the year twenty-nine thousand two hundred and sixty, and the total number, including maps and pamphlets, thirty-one thousand two hundred and fifty. Of the number of volumes added to the library by purchase, one hundred and fifty-four volumes were acquired by expenditures from the income of the Dean Fund.

Seventy different periodicals have been regularly received at the library,—fifty-five by purchase and fifteen by donation,—and as the respective volumes have been completed, they have been bound and placed in general circulation.

The number of volumes withdrawn from circulation by reason of their worn and defaced condition was seventy-six. Of this number, and of others retired in previous years for the same reason, ninety-nine have been replaced. A large number of others were ordered, but have not yet been received.

Following the report of the librarian will be found a list of the books presented to the library during the year, with the names of the persons presenting them. Due acknowledgment has been made by the trustees in behalf of the city, for these donations, to all who have thus manifested an interest in the increase of the library.

The trustees have employed Mr. Alton F. Payne as assistant to the librarian in the place of Mr. Arthur, the

former assistant, who resigned his position during the preceding year.

During the year no circumstance has occurred to call for any unusual action on the part of the trustees in the administration of the affairs of the library, or to interfere with its harmonious operation. The librarian, Mrs. M. J. Buncher, has continued to perform the duties pertaining to her office with the same fidelity and earnest effort for the accommodation of the public as in previous years.

The trustees regret to report that no progress has been made during the past year toward the preparation of a new catalogue of the library on account of the failure of the City Councils to appropriate a sum sufficient for the purpose. It is not necessary for the trustees to repeat what has been said in former reports concerning the need of a new catalogue of the library. The necessity of such a catalogue as shall enable the patrons of the library to obtain a knowledge of what books are therein contained with the least possible inconvenience is generally conceded. It is for the City Councils to take the initiative in the matter and place at the disposal of the trustees a sum sufficient to meet the expense of its compilation. Should the City Councils appropriate a suitable amount toward the preparation of a new catalogue, the trustees will endeavor to provide for its compilation without unreasonable delay.

FEBRUARY 16, 1889.

In Board of Trustees, read and approved, and ordered to be signed by the chairman and clerk of the board, and transmitted to the City Councils.

D. B. VARNEY, *Mayor*.

N. P. HUNT, *Clerk*.

TREASURER'S REPORT.

To the Board of Trustees of the City Library:

The Treasurer of the Board presents the following account of the receipts and expenditures by the board of the funds received on account of the library:

1888.		DR.
Jan. 1.	To balance of appropriation	\$764 59
March 3.	Mrs. M. J. Buncher, catalogues sold and lost books	14 35
	Mrs. M. J. Buncher, balance of fines	51 75
July 21.	appropriation for books for 1888	1,000 00
Jan. 1.	balance of income of Dean fund	\$4,976 28
	income of Dean fund	153 00
July 1.	income of Dean fund	153 00
	interest on accumulation of income	234 61
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>	\$5,516 89
Jan. 1.	To Mary E. Elliot fund \$2,000 00	
	balance of interest on Mary E. Elliot fund	210 79
April 1.	interest on Mary E. Elliot fund	90 00

April 1.	To interest on accumu- lation of income of Mary E. Elliot fund	\$9 45	
		<hr/>	\$2,310 24
			<hr/>
			\$9,657 82

1888.			CR.
Jan. 5.	Paid New England News Co., periodicals		\$12 95
7.	Charles C. Soule, periodicals		5 00
21.	Houghton, Mifflin & Co., books		5 50
23.	Little, Brown & Co. (Dean fund) books		1 60
26.	Estes & Lauriat, books		9 00
Feb. 6.	Geo. H. Polley & Co., peri- odicals		6 00
7.	New England News Co., periodicals		9 26
10.	Laughton, Macdonald & Co., books		15 00
27.	William H. Stevenson, pe- riodicals		5 00
March 5.	New England News Co., periodicals		11 86
6.	John S. Smith, Treas., peri- odicals		4 00
6.	F. H. Carpenter, periodi- cals		2 00
6.	J. H. Hickeox, periodicals		5 00
6.	Sarah D. Stow, books		2 00
6.	Sampson, Murdock & Co., books		1 50

March	6.	Paid Charles Scribner's Sons, books	\$6 00
	6.	John N. McClintock, books	2 00
	21.	Boston Society Natural History, periodicals	7 00
	23.	Little, Brown & Co., books	4 25
April	3.	Estes & Lauriat, books	9 00
	4.	New England News Co., periodicals	14 20
	16.	Estes & Lauriat, books	7 35
	26.	Laughton, Macdonald & Co., books	2 34
May	3.	New England News Co., periodicals	12 68
	9.	Laughton, Macdonald & Co., books	5 00
	25.	D. Appleton & Co., books	5 00
June	4.	New England News Co., periodicals	10 32
	7.	Little, Brown & Co., books	5 50
	12.	Charles H. Bell, books	4 25
July	5.	New England News Co., periodicals	14 53
	23.	Little, Brown & Co., books	3 50
Aug.	2.	New England News Co., periodicals	11 58
	3.	Laughton, Macdonald & Co., books	5 00
	11.	Houghton, Mifflin & Co., books	5 50
	27.	Chas. L. Woodward, books	2 00
Sept.	6.	New England News Co., periodicals	11 78

Oct.	4.	Paid New England News Co., periodicals	\$15 10
	9.	William H. Briggs, Treas., books	5 00
	11.	Young Women's Chris- tian Association, replaced books	101 00
	17.	Laughton, Macdonald & Co., books	148 58
	18.	Laughton, Macdonald & Co., books	44 83
	23.	Charles Scribner's Sons, (Dean fund) books	18 00
Nov.	2.	New England News Co., periodicals	11 56
	24.	Laughton, Macdonald & Co., books	134 57
	27.	Geo. E. Littlefield, books	8 42
Dec.	4.	New England News Co., periodicals	10 99
	4.	S. C. Gould, books	3 00
	19.	Geo. E. Littlefield, books	7 65
	20.	Little, Brown & Co. (Dean fund) books	385 77
	20.	Charles Scribner's Sons, books	6 00
	20.	Young Women's Chris- tian Association, replaced books	17 85
	20.	S. H. Hiccox, periodicals	5 00
	20.	A. S. Clark, periodicals	1 31
	20.	L. T. Mead, periodicals	3 04
	20.	Temple & Farrington, peri- odicals	35

By balance of appropriation	\$1,063 59
balance of Dean fund	5,111 52
balance of Mary E. Elliot fund, and interest	2,310 24
	<hr/>
	\$9,657 82

The expenditures for incidental expenses of the library for the year ending December 31, 1888, paid upon the approval of the Committee on Accounts of the Board of Trustees, the items of which may be found in detail in the annual report of the city, are as follows:

Services as librarian	\$800 00
Services of assistant to librarian	288 25
Binding	299 85
Rebinding	184 43
Insurance	100 00
Gas	238 14
Fuel	12 00
Newspapers	24 00
Water	16 00
Printing	11 00
Supplies	61 95
Incidentals	10 73
	<hr/>
	\$2,046 35

RECAPITULATION.

Balance Dec. 31, 1887 (for catalogue, \$800, general balance, \$433.97)	\$1,233 97
Appropriation for 1888	3,800 00
	<hr/>
	\$5,033 97

Paid trustees, for purchase of books	\$1,000 00	
Paid incidental expenses . . .	2,046 35	
Balance Dec. 31, 1888 (catalogue \$800, general balance \$1,187.62)	1,987 62	
	<u> </u>	\$5,033 97

Respectfully submitted.

NATHAN P. HUNT,
Treasurer of the Trustees of the City Library.

December 31, 1888.

We have examined the foregoing report, and find the same correctly cast and properly vouched.

JOHN HOSLEY,
L. B. CLOUGH,
Committee on Accounts of City Library.

December 31, 1888.

I certify that I have examined the several items of receipts and expenditures embraced in the foregoing report of the Trustees of the City Library, and find the same correctly cast and properly vouched.

N. P. KIDDER,
City Auditor.

LIBRARIAN'S REPORT.

Gentlemen of the Board of Trustees :

I respectfully submit to you the thirty-fifth annual report of the City Library, showing the work of the year ending December 31, 1888.

Whole number of volumes Dec. 31, 1887	30,307
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Accessions during the year :

By purchase	593	
Donated	262	
Periodicals bound	88	
	943	943

Whole number of volumes at present :

Maps	16	
Pamphlets	1,974	
Bound volumes	29,260	
	31,250	31,250

Number of periodicals and papers regularly received	70
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Number of periodicals and papers received by gift	15
---	----

Number of days open to the public	306
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Days open for delivery of books	306
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Number of books delivered for home use	50,417
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Average per day	165
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Largest number any one day, March 12	425
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Largest number any one month, March	5,400
Number of books, magazines, etc., used in the reading-room	6,031
Average per day	20
Number of guaranties received and cards issued during the year	412
Whole number since new registration	6,873
Number of cards returned to the library during the year	74
Number of cards used on deposit	9
Postals sent to delinquents	457
Number of books taken from the shelves unfit for longer use	76
Volumes replaced during the year	99
Volumes missing, not yet accounted for	4
Number lost or injured, and paid for	6
Volumes repaired at the bindery	543
Repaired and covered in the library	4,255
Balance of fines on hand Dec. 31, 1887	\$51 75
Amount received from Jan. 1 to Dec. 31, 1888	113 99
	<hr/>
	\$165 74
Amount paid for express, stationery and other incidentals	\$54 39
Paid N. P. Hunt, treasurer	51 75
	<hr/>
	\$106 14
	<hr/>
Balance of fines on hand Dec. 31, 1888	\$59 60
Balance of cash on hand Dec. 31, 1887, for catalogues and supplements sold and for lost or injured books	\$14 35

Amount received from Jan. 1 to Dec. 31, 1888 :

For 4 catalogues, at 75 cts.	\$3 00	
For 14 supplements, at 15 cts.	2 10	
Six books lost or injured	4 71	
	<u> </u>	\$9 81
		<u> </u>
		\$24 16
Paid the treasurer		14 35
		<u> </u>
		\$9 81
Balance of fines on hand		59 60
		<u> </u>
Total balance on hand		\$69 41

There is nothing of special importance to add to the above statistics. They give substantially the work of the library the past year. No changes have been made. The demand for a new catalogue becomes more and more imperative. None but those who have had experience in library work can estimate the amount of extra labor brought upon the librarian and assistant by the absence of a good catalogue, but it is easy to understand that it must detract greatly from the usefulness of the library, when it is known there are over nine thousand books, a large proportion of them belonging to the higher order of literature, with no catalogue to give the public any knowledge concerning them. As a rule, the public will not consult the written lists, and many depend entirely upon the librarian for the information they desire. In most cases the titles and locations are in the mind of the librarian; if absent, there is naturally confusion. The frequent changes of the assistant, caused by a desire for better compensation, make it impossible for him to become familiar with this most important part of library work. These changes are very detrimental to the usefulness of

the library, and bring additional care and anxiety upon the librarian. If provision could be made by which a competent assistant might be secured and *retained*, it would prove a valuable acquisition both to library and public. The falling off in the circulation for the two preceding years was a source of regret, and mainly attributable to the want of a good catalogue. We may reasonably expect a very considerable increase when this most essential help is supplied. It is hoped that those in authority will appreciate these conditions of our otherwise valuable institution, and grant the earnest desire of the public.

The number of volumes delivered for home use during the year just closed was 50,417, a trifle in advance of last year. Number used in the reading-room, not including the books consulted in the law and patent office department, 5,944, an increase over last year of nearly three hundred.

It is a pleasure to report a much better observance of the rules of the library and reading-room than hitherto. There has been very little cause for complaint the past year.

The number of volumes in the library, as indicated in the accession-book at the close of 1887, was 30,307. From that number an allowance is to be made for a large number of worn-out books not yet replaced. There have been added the past year 943 volumes, — 593 by purchase, 262 by gift, and 88 bound volumes of periodicals. Of the purchase, 154 were from the Dean Fund, pertaining to science and the mechanic arts; 155 volumes, a purchase from S. C. Gould (mentioned in the treasurer's last report), being a collection of valuable papers published in our city, a *purchase* of last year, but bound and added to the accession-book the present year. There are many other volumes yet to be bound as soon as they are made complete.

Among the gifts of the year are seventy-two public

documents, belonging to the regular set, and a large number of publications from the several departments; also some valuable books from the honorable members of Congress. Included in the gifts are forty-nine volumes of registers, presented by the Shepherd heirs, containing a list of names registered at the Manchester House from the year 1839 to 1884, inclusive, except 1864, 1865, 1866. The library reports received are not included in the number, as they are reserved in cases until a sufficient number has accumulated for binding.

Of the seventy periodicals and papers regularly received, fifteen are gifts from the several publishers, with two exceptions. Four have been discontinued, viz., "Belknap Republican," "Townsend's Costumes," "The Northwest," and "The Student and Statesman;" four added, viz., "Leavenworth Times," "Daily Press," and two French papers published in our city, "Le Courier du New Hampshire," and "L'Avenir Canadien."

Ninety-nine volumes have been replaced during the year, being a collection of bound and unbound magazines, purchased of the Young Women's Christian Association, to fill the vacancies made from time to time by the wear and tear in that department of the library. The number of books taken from the shelves unfit for longer use, is about the same as last year, and many others will soon share the same fate.

The work of repairing and covering books increases yearly, and no little time is given to the erasure of pencil marks and other defacements. It is difficult to detect the offenders, as our time will not admit of a thorough examination when the books come in, and when questioned, the answer is always in the negative. There is good reason to believe it is not always the work of the juveniles.

The number of missing books for the year is very small, three at the examination in June, and one additional in December: fiction, two; history, one; classical, one.

In closing this, my eleventh report, I desire to acknowledge the kind co-operation of the treasurer of the board in the work of the library.

Respectfully submitted.

MRS. M. J. BUNCHER,
Librarian.

DONATIONS TO THE CITY LIBRARY.

1888.

HON. H. W. BLAIR, M. C.

Seventeen volumes of Congressional Records of the Forty-eighth and Forty-ninth Congresses. 4to.

The Growth of Industrial Art, arranged and compiled under the supervision of Hon. Benj. Butterworth. Folio.

HON. L. F. MCKINNEY, M. C.

The Growth of Industrial Art. By Hon. Benj. Butterworth. Folio.

HON. JAMES F. BRIGGS, Manchester.

Four volumes of the Official Records of the Union and Confederate Armies. Vol. 20, parts 1, 2; vols. 21, 22, part 1. 8vo.

STATE LIBRARIAN, Concord, N. H.

Hitchcock's Geology of New Hampshire. Three volumes and Atlas. 8vo.

A. B. THOMPSON, Secretary of State, Concord.

Journal of the Senate and House, 1887. 2 vols. 8vo.

State Reports for the year 1887. 1 vol. 8vo.

State Laws for the year 1887. 1 vol. 8vo.

State Papers (Hammond.), vol. 16; of the Revolutionary War Rolls, vol. 3. 8vo.

- IRVING A. WATSON, Secretary State Board of Health :
 Seventh Annual Registration Report for the year
 1886.
 Reports of the State Board of Health. Vols. 1, 2,
 3, 6, 7. 5 vols. 8vo.
- COL. L. B. MARSH, Boston.
 The Genealogy of John Marsh, of Salem, Mass., and
 his Descendants. 1633-1888. 8vo.
- D. APPLETON, New York.
 Index to the Annual Cyclopaedia. 1876-1887. 8vo.
- F. D. SONE, Secretary.
 Banquet to commemorate the Framing and Signing
 of the Constitution of the United States. 8vo.
- J. HENRY STICKNEY, Esq., Baltimore.
 A Genealogical Memoir of the Stickney Family.
 1637-1869. By Matthew A. Stickney. 8vo.
- RIGHT REV. BISHOP BRADLEY, Manchester.
 The Catholic Church in the United States. Vols. 1
 and 2. By John Gilmary Shea. 1888. 8vo.
- GRAND RAPIDS BOARD OF TRADE.
 Grand Rapids as It Is. 1888. 4to.
- HON. HENRY H. HUSE, Manchester.
 Nineteenth annual report of the Insurance Com-
 missioner of New Hampshire. 1888. 8vo.
- J. P. THORNDIKE, Manchester.
 Seven Dozen Gems. (Poems.) 1887. 12mo.
- G. WALDO BROWN, Manchester.
 The Lady of Dardale and other poems. By Horace
 E. Walker. 1886. 8vo.

- CHARLES F. LIVINGSTON, Manchester.
 Springfield Republican for the year 1887. Folio.
 Printer's Circular for the year 1887. 8vo.
- E. M. BOWMAN, Esq., Nashua.
 Municipal report of the City of Nashua for the year
 1887. 12mo.
- N. P. KIDDER, City Clerk.
 Municipal report of the City of Manchester for the
 year 1887. 12mo.
- S. C. GOULD, Manchester.
 Notes and Queries. Vol. 5. 1888. 8vo.
 Bibliography on the Polemic Problem: What is the
 Value of Pi. By S. C. Gould. Pamphlet.
- HARRY CLIFTON, Manchester.
 American Politics, by Hon Thomas V. Cooper and
 W. F. Fenton, Esq., Philadelphia. 1886. 8vo.
- DR. J. C. AYER & Co., Lowell.
 Ayer's Almanac for the year 1889. 12mo.
- HISTORICAL ASSOCIATION, Lowell.
 Contributions of "Old Residents." No. 1. Vol. 4.
 1888. Pamphlet.
- J. C. W. LIVERMORE, Esq.
 Ancient Society of Tennessee. "The Mound
 Builders were Indians." By J. P. Thurston.
 Report by Prof. Proctor on the Properties of the
 American Association, Knoxville, Tenn. (geologi-
 cal). Two pamphlets.
- STEPHEN B. WEEKS, Esq.
 Historical Sketch of the Young Men's Christian
 Association in North Carolina. 1857-1888.
 Journal of Proceedings of the Twelfth Annual Con-
 vention, April, 1888. Two pamphlets.

LADIES' CALHOUN ASSOCIATION.

History of the Calhoun Monument at Charleston,
South Carolina. 1888. Pamphlet.

WOMAN'S CHRISTIAN TEMPERANCE UNION, Manchester.

Medical Temperance Journal for the year 1888.
12mo.

Fourteenth annual report of the W. C. T. U. in
New Hampshire. Pamphlet.

WOMAN'S MEDICAL COLLEGE, of Penn.

Thirty-ninth Annual Announcement. May, 1888.
Pamphlet. University of California.

UNIVERSITY OF CALIFORNIA.

Register of the University, Berkeley, Cal. Pamphlet.

GEORGE B. SWIFT, Commissioner of Public Works,
Chicago.

Twelfth annual report of the Department for the
year 1887. Pamphlet.

BOARD OF TRADE, Omaha.

Eleventh annual report of the Trade and Com-
merce of Omaha, for the year ending June, 1888.
Pamphlet.

AMHERST COLLEGE.

Catalogues for the years 1887, 1888, and 1889. Three
pamphlets.

Addresses of the Alumni, June, 1888. No. 2.
Pamphlet.

UNKNOWN.

The Brotherhood of Thieves. By Stephen Foster,
Concord, N. H. 1886. Pamphlet.

Tenth annual catalogue of the School of Expres-
sion. Boston, 1888. Pamphlet.

The Wilkésbarre Letters on Theosophy. By Alexander Fullerton. Pamphlet.

FROM MAYOR'S OFFICE.

Twenty-four volumes of Municipal Reports of various cities in the United States. 8vo.

HEIRS OF WILLIAM SHEPHERD.

Forty-nine volumes of Registers, containing a list of names registered at the Manchester House from 1839 to 1884, inclusive, except 1864, 1865, and 1866.

REPORTS FROM LIBRARIANS OR BOARDS OF TRUSTEES.

Boston Public Library, for the year 1887. Pamphlet.

Bulletins Nos. 1 and 2. Vol. 8. 1888. Two pamphlets.

Brooklyn (N. Y.) Public Library. Thirteenth annual report. March 29, 1888. Pamphlet.

Brookline, Mass. Thirty-first annual report. 1887. Pamphlet.

Baltimore, Md. Twenty-first annual report of the Peabody Institute. June, 1888. Pamphlet.

Birmingham, Eng. Twenty-sixth annual report of the Free Libraries Committee. 1887. Pamphlet.

Bridgeport, Conn. Seventh annual report. July 1, 1888. Pamphlet.

Cincinnati (O.) Public Library. Report for the year ending June 30, 1886. Pamphlet.

Cleveland, O. Nineteenth annual report. Aug. 31, 1887. Pamphlet.

Chicago, Ill. First annual report of the Newberry Library. July, 1887, to January, 1888. Pamphlet.

Clinton, Mass. Fourteenth annual report of the Bigelow Free Library. 1887. Pamphlet.

- Cardiff, Glamorgan county, Wales. Annual report of the Free Library, Museum, and Science and Art Schools. 1887-88. Pamphlet.
- Detroit, Mich. Seventh annual report of the Library Commission. 1887. Pamphlet.
- Dover, N. H. Fifth annual report for the year 1887. Pamphlet.
- Germantown, Phila. Report of the Friends' Free Library and Reading-room, for 1887. Pamphlet.
- Grand Rapids, Mich. Reports of Public School Library. 1886-87 and 1887-88. Two pamphlets.
- Lawrence, Mass. Sixteenth annual report. 1887. Pamphlet.
- Lowell, Mass. Report of the City Library for 1887. Pamphlet.
- Manchester, Eng. Thirty-sixth annual report of the Public Free Libraries. 1887-88. Pamphlet.
- Milwaukee, Wis. Eleventh annual report, Oct. 1, 1888. Pamphlet.
- Malden, Mass. Tenth annual report. 1887. Pamphlet.
- Melrose, Mass. Seventeenth annual report for the year 1887. Pamphlet.
- New Haven, Conn. First annual report of the Free Public Library. November, 1887. Pamphlet.
- Newark, N. J. Forty-first annual report of the Library Associations. 1887. Pamphlet.
- Newton, Mass. Annual report for 1887. Pamphlet.
- New York. Maimonides Library, report for the year 1887. Pamphlet.
- Omaha, Neb. Eleventh annual report. May, 1888. Pamphlet.

- Philadelphia. Sixty-eighth annual report of the Apprentices' Library Company. 1887. Pamphlet.
- Philadelphia. Bulletins of the Library Company for January, 1888. New series, Nos. 20 and 21. Pamphlet.
- Providence, R. I. Tenth annual report. 1887. Pamphlet.
- Peabody, Mass. Thirty-sixth annual report of the Peabody Institute. March, 1887. Pamphlet.
- Springfield, Mass. Annual report of the City Library Association, year ending May, 1888. Pamphlet. Bulletins Nos. 1 and 2. Vol. 2. Pamphlets.
- San Francisco. Annual reports of the Mercantile Library Association for the years 1884, 1887, 1888. Three pamphlets.
- Worcester, Mass. Twenty-eighth annual report of the Free Library. November, 1887. Pamphlet.
- Woburn, Mass. Third annual report of Public Library, year ending February, 1888. Pamphlet.
- Waterbury, Conn. Reports of the Board of Agents of the Bronson Library Fund for the years 1886-87 and 1887-88. Two pamphlets.
- Windham, N. H. Report of the Nesmith Library, year ending March, 1888. Pamphlet.

FROM THE SEVERAL PUBLISHERS.

- "The Dartmouth." Published by the Senior Class, Dartmouth College. For the year 1888. Vol. 9.
- "The Manifesto." Published at Shaker Village, Canterbury, N. H. For the year 1888. 8vo.
- "Good Health." A Journal of Hygiene. Published at Oakland, Cal. For 1888. 8vo.
- "Notes and Queries." Published by S. C. Gould, Manchester, N. H. 1888. 8vo.

- “Plymouth Record.” Published at Plymouth, N. H. For the year 1888. Folio.
- “The Veteran’s Advocate.” Published in Concord, N. H. Presented by Mr. Harry Clifton, Manchester. Folio.
- “New Hampshire Catholic.” Published in Manchester, by Charles A. O’Connor, Esq. For 1888. Folio.
- “The Weekly Budget.” Published in Manchester, by Challis & Eastman. For 1887. Folio. (Presented bound.)
- “The Weirs Times.” Published by M. N. Calvert, during the summer months at the Weirs. For the season of 1887. Folio.
- “The Voice.” A Temperance Journal. Published by Funk & Wagnall, New York. 1888. Folio.
- “Lawrence Anzeiger.” Published at Lawrence, Mass. For the year 1888. Folio.
- “Leavenworth Times.” Published by Smith & Lamborn, Leavenworth, Kansas. For 1888. Folio.
- “The Daily Press.” Manchester. Published by the Daily Press Co. For the year 1888. Folio.

UNITED STATES GOVERNMENT.

STATE DEPARTMENT.

- Consular Reports. Vols. 24, 25 and 26, and Nos. 95 and 96, vol. 27. 1888. 8vo.
- Commercial Relations of the United States with Foreign Countries. 1885, 1886. 2 vols. 8vo.
- Technical Education in Europe. First part.
- Industrial Education in France. By J. Schoenhof, consul at Temstall. 1888.

First annual report of the Interstate Commerce Commission. December 1, 1887. Pamphlet.

TREASURY DEPARTMENT.

Reports of the Director of the Mint for the years 1883 to 1887, inclusive. 5 vols. 8vo.

Reports on the Production of the Precious Metals for the years 1880, 1883, 1884, 1885, and 1886. 5 vols. 8vo.

Report of the Comptroller of the Currency for the year 1887. 2 vols. 8vo.

Report of the Secretary of the Treasury for 1887. 8vo.

Report of the Commissioner of Navigation. 1887. 8vo.

Report of the United States Coast and Geodetic Survey for 1887. 4to.

Annual report of the Operations of the Life-Saving Service during the year 1887. 8vo.

INTERIOR DEPARTMENT.

American State Papers. Vol. 3. December 22, 1815, to May 26, 1824. 8vo.

Reports of the Commissioner of Agriculture for the years 1874 and 1883. 2 vols. 8vo.

Reports of the Superintendent of the Coast Survey for the years 1851 and 1859. With maps. 2 vols. 8vo.

Reports on Commerce and Navigation of the United States for the years 1851 and 1886. 2 vols. 8vo.

(The above seven volumes sent to fill vacancies.)

Annual report of the Commissioner of Patents for 1887. 8vo.

Official Gazette of the United States Patent Office for the year 1888. 4 vols. 8vo.

Annual report of the Commissioner of Pensions for 1888. 8vo.

Third annual report of the Commissioner of Labor, viz., On Strikes and Lockouts. 1887. 8vo.

Report of Receipts and Distribution of Public Documents in behalf of the Government, for the year 1888. Pamphlet.

BUREAU OF EDUCATION.

Circulars of Information. Nos. 1, 2, 3. 1887.

SMITHSONIAN INSTITUTE.

Miscellaneous Collections. Vols. 31, 32, 33. 8vo.

Report of the Smithsonian Institution for the year 1885. Part 2. 8vo.

WAR DEPARTMENT.

Reports of the Chief Signal Officer for the years 1872, 1882 to 1887, inclusive, except 1884. 8 vols. 8vo.

Monthly Weather Reviews from 1874 to 1881, inclusive, and 1883, 1884, 1886, 1887. (Somewhat incomplete.)

Tri-Weekly Meteorological Record for 1878. 4 vols. 4to.

Weekly Weather Chronicles for 1872, 1873, 1874, 1875, 1879. 5 vols. 4to.

Daily Bulletins, Synopses, Indications, and Facts for the months of January, March, September, October, November, and December, 1887. 6 Nos. 4to.

Tornado Circular, No. 1. New Series. Pamphlet.

Instructions to Observers of the Signal Service. With plates and maps. 8vo.

Official Danger, Distress, and Storm Signal Codes for Signal Service, etc. 8vo.

Instructions to Voluntary Observers of the Signal Service. 8vo.

Practical Use of Meteorological Reports and Weather Maps, etc. 4 vols. 8vo.

COMMISSION OF FISH AND FISHERIES.

Commissioners' reports for the years 1873 to 1885, inclusive, except 1876, 1887, 1878, and 1879. 8 vols. 8vo.

Bulletins of the United States Commission for the years 1881 to 1886, inclusive. 6 vols. 8vo.

UNITED STATES CONGRESS.

Seventy-two volumes of Public Documents of the Forty-seventh, Forty-eighth, Forty-ninth, and first session of the Fiftieth Congress.

REPORT
OF THE
BOARD OF HEALTH.

REPORT OF THE BOARD OF HEALTH.

To His Honor the Mayor :

The Board of Health respectfully submits its report for the year 1888.

At the beginning of the year, the board consisted of Dr. George C. Hoitt, chairman, Joseph B. Sawyer, clerk, and Dr. George A. Crosby, who had been appointed to the place made vacant by the death of Dr. William A. Webster, which took place on February 7, 1887. Dr. Crosby died on the 30th of January last, and the vacancy thus occasioned was filled by the appointment of Dr. William M. Parsons. The board as thus constituted has since remained unchanged.

Mr. Russell White has been employed throughout the year, and Mr. W. H. B. Newhall from April 23 to September 29, each at two dollars per day.

EXPENSES.

A more detailed statement will be found in the City Clerk's account of appropriations and payments.

The expenses of the board may be classified as follows :

Pay of employes	\$838 00
Street-car fares	25 50
Stationery and postage	21 18
Carriage hire	2 25
Express charges	2 70

Professional advice of veterinary surgeons	\$10 00
Paid for assistance to Mr. White, burying dead animals	11 75
Chemical analyses of water	15 00
Printing	53 90
Advertising	33 25
	<hr/>
Total	\$1,013 53

In addition to the foregoing amount, the sum of \$700.87 has been charged to the health department for labor of men and teams. The appropriation to the health department was \$1,200, and it has thus been overdrawn to the amount of \$514.40. The explanation of this matter is as follows:

At the request of the board, the superintendent of streets in District No. 2 was instructed to put on, during the warm weather, in addition to his regular scavenger teams, a one-horse cart and men for the daily removal of the more perishable class of wastes from the compact business portion of the city. Mr. Sanborn, the superintendent, willingly made the arrangement, and it was a great convenience and satisfaction to our people. He has always been courteous to hear our suggestions, and ready to carry them into practice, so far as they did not interfere with his other and larger operations in the street department; but the board has been, in no regular and legal way, responsible for what has been done, any more than for what has been done by the regular scavenger teams. The cost of this service has somehow been ascertained or estimated, and without any auditing by the board has been charged to their account. We would not be understood as intimating or suspecting wrong-doing on the part of any one. We have no such complaint to make; but the system, if so it can be called, is loose and

improper. It is not to be supposed that the City Councils, when they appropriated more than eighty thousand dollars to be expended in various ways by the superintendents of streets, eighty-five hundred of which was for scavenger service, intended that these appropriations should be pieced out by recourse to the modest little appropriation for the care of the public health. It is suggested that hereafter all expenses of the scavenger service be charged to the appropriation for that purpose.

THE WORK OF THE DEPARTMENT.

The ordinary work of a board of health is hardly susceptible of being set forth in imposing rhetoric, or even in a great array of statistics, at least not unless a record has been kept of a multitude of affairs small in themselves, although of considerable importance in the aggregate, a record which is hardly worth the time required in its making. In the absence of such a record, only a few of the more important items can be given :

Number of recorded inspections of premises, mostly tenement and business blocks, 76. In most of these premises repairs were made or cleaning was done by the owner at the suggestion or order of the board.

Number of dead animals found and buried by the board, or by the owner on notice from the board, 86 ; viz., swine, 51 ; horses, 10 ; dogs, 19 ; cats, 5 ; cow, 1. Thirty-five dead swine were found at one time in one field.

Other nuisances abated, 170. Special permits, granted after examination of the premises, for occupant to clean his own privy-vault, 29. Vaults inspected after being cleaned by the licensed cleaners, 1,032. Houses placarded for infectious diseases, 295. Houses containing cases of typhoid fever visited but not placarded, 33.

One privy-vault has been cleaned by the board by authority of law, and one case of suspected glanders in a

horse has been investigated. Two parties have been licensed to clean vaults by the pumping process and the closed tank. Their work is constantly under the watch of an inspector, and while it is not absolutely "odorless," it is done in a way that causes very little, if any, annoyance to the people, and few would approve of going back to the old style of night-work, in vogue until within the last two years.

A still greater advance, and one which the future is sure to bring, will be the abolishment of the privy-vault itself as a relic of barbarism, fit only for the times when people were inoculated with the small-pox as a protective measure, and were bled for the cure of their diseases. It is a question whether public sentiment would not even now approve and sustain a regulation abolishing these structures in the business portion of the city.

CONTAGIOUS DISEASES.

The year has passed without any startling outbreak of pestilence like what has occurred in distant parts of our country and in foreign lands. Yellow fever, small-pox, and cholera have not invaded our city; but there are always present contagious diseases which may at any time assume the character of wide-spread and malignant pestilence. The tables on the following pages show that there have been one hundred and twenty-six cases of diphtheria, with thirty deaths; forty-four cases of scarlet fever, with one death; thirty-five cases of typhoid fever, with twelve deaths; and one hundred and eighty-seven cases of measles, with nine deaths; in all, three hundred and nine-two cases of sickness, with fifty-two deaths. History records that each of these diseases has repeatedly proved itself capable of slaying its hundreds in some stricken community. If there had been one hundred and twenty-six cases of small-pox, resulting in thirty deaths, the whole

community would have been excited, and the health department would have been sustained in the most vigorous and arbitrary measures for restricting and exterminating the disease.

Diphtheria and scarlet fever, no less than small-pox and cholera, are preventable by isolation and disinfection. Whenever a case of diphtheria, scarlet-fever, or measles has come to the knowledge of the board, we have immediately placarded the house in which it existed, notified the teachers of the schools which the children who had been exposed to the disease attended, distributed copies of the instructions and requirements of the State Board of Health as to the restriction and prevention of the disease, and taken such other measures as were practicable. We have also left at the house a paper containing a blank certificate, to be filled out and signed by the attending physician after all danger of contagion is past, and to be returned to board. Upon the receipt of this certificate, the placard has always been promptly removed from the house.

We believe these measures have produced good results, but in a community like ours effective isolation and disinfection cannot thus be secured. Probably more than one half of our population are foreigners. A large part of the remainder came here from scattered farm-houses and small villages, where the health officer has never troubled them, and the sanitary precautions needful in a city have been practically unknown. A considerable part inherit the belief, which was once pardonable in the then existing state of human knowledge, that sickness, and especially pestilence, is something which man cannot prevent and for the spread of which he is not responsible, and that the proper measures to be taken in such an emergency are devotional rather than sanitary. Many of the families

in which these diseases appear live in crowded tenement-blocks, and are dependent on the weekly earnings of some of their members for their weekly subsistence. To prevent the grown-up members of such a family from going out to their daily labor is a hardship to which they ought not to be subjected; and to do this after the sick one has become convalescent, although the danger of infection has not passed, is impracticable.

These diseases should be dealt with in the same manner as is small-pox. A hospital should be provided for their reception and treatment at the public expense, and whenever a case is found in circumstances where for any reason isolation and disinfection cannot be thoroughly secured, it should be at once removed thereto. This is the dictate alike of care for ourselves and of charity for the poor and the sick. It is believed that such an arrangement would restrict the cases of contagious disease to very small numbers; that by the favorable surroundings, the good nursing, and the skillful medical attendance which might be thus secured, a much larger percentage of recoveries would be realized, and that when once the institution should be in working order, it would show itself to be one of our most beneficent public charities.

Such an institution need not be very costly. Probably a sum equal to that spent in building, equipping, and maintaining one of our three new fire-engine houses would be ample for the purpose. It would seem that we should be as well fore-armed against pestilence as against conflagration.

Two instances showing how contagious diseases are spread by ignorance or carelessness have recently come to our knowledge. On December 5, notice was received from one of our physicians that a case of diphtheria existed in the person of a child in a certain Canadian

family. It appears that the grandmother, who lived in the city with another daughter, came and assisted the mother in the care of the child, returning after a few days to her usual home, where there was a family of children. It was in a tenement block. On the 18th of the same month a case was reported from that family, on the 20th another, followed on the 23d and 24th by two more. Three of these four cases were terminated by death.

The other instance was where an infant of four months in an American family living in the suburbs, and well apart from all others, fell sick with measles. No case of the disease had been known to the board for several weeks. It was learned that about two weeks before the appearance of this case, the family had received a call from a man living in a neighboring town in whose family the disease at that time existed.

The following table shows that measles were most prevalent in the first half of the year, and diphtheria in the last half.

CASES OF CONTAGIOUS DISEASES REPORTED DURING THE YEAR.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Diphtheria.....	4	7	3	6	3	6	3	4	30	24	17	19	126
Scarlet fever	5	4	8	5	2	1	2	7	6	2	1	1	44
Typhoid fever.....	..	..	5	3	1	1	1	2	4	10	7	1	35
Measles.....	23	32	50	35	21	18	2	2	..	..	4	..	187

The following table, which has the indorsement of eminent medical and sanitary authority, is printed as answering questions which are often asked, and affording other information of interest to parents, school-teachers, and the general public.

DISEASE.	Time from inception to beginning of eruption.	Time from final precursory symptoms to beginning of eruption.	Time from beginning of eruption to cessation of pyrexia (fever).	Time from beginning of eruption till patient ceases to be infective.
Small-pox	13 days. <i>Range 7 to 21 days.</i>	2 days. <i>Range a few hours to 7 days.</i>	14 days.	56 days.
Varioloid or Modified Small-pox..	13 days. <i>Range 7 to 21 days.</i>	2 days. <i>Range a few hours to 7 days.</i>	14 days.	35 days.
Chicken-pox	13 days. <i>Range 4 to 17 days.</i>	2 days. <i>Range a few hours to 3 days.</i>	5 days. <i>Range 3 to 7 days.</i>	17 days.
Measles.....	14 days. <i>Range 7 to 21 days.</i>	4 days. <i>Range 1 to 9 days.</i>	6 days.	27 days.
German Measles..	14 days. <i>Range 10 to 20 days.</i>	1 day. <i>Range nil to 3 days.</i>	7 days.	14 days.
Scarlatina or Scarlet Fever*..	4 days. <i>Range a few hours to 14 days.</i>	1 day.	7 days.	49 days.
Diphtheria.....	5 days. <i>Range 1 to 14 days.</i>	2 days. <i>Range a few hours to 4 days.</i>	14 days.	28 days.
Idiopathic Erysipelas	5 days. <i>Range 2 to 14 days.</i>	1 day.	14 days.	35 days.
Typhus Fever....	14 days. <i>Range a few hours to 25 days.</i>	7 days. <i>Range 3 to 7 days.</i>	7 days.	21 days.
Typhoid or Enteric Fever.....	21 days. <i>Range 1 to 28 days.</i>	7 days. <i>Range 7 to 12 days.</i>	21 days. <i>Range 14 to 23 days.</i>	28 days.
Mumps.....	18 days. <i>Range 3 to 25 days.</i>	4 days.	7 days.	21 days.

*In scarlet fever the common period of incubation is from 24 to 48 hours, — occasionally longer, lasting from three to five days. In rare instances the incubatory period is practically absent, the symptoms following quickly upon exposure to infection. Any susceptible person who has been exposed to infection should, before being pronounced safe from its probable consequences, be kept under surveillance for a week, and then only be set at liberty after change of clothes and baths. It is an error to regard the infective process at an end before the cessation of desquamation and for some considerable interval thereafter. The tendency to albuminuria ought always to be remembered and guarded against. The isolation of scarlet fever patients for a period of not less than eight weeks is regarded as absolutely necessary by some prominent physicians.

THE DISPOSAL OF CITY WASTES

is a subject which is now forcing itself upon the attention of many city councils and boards of health. The warnings of sanitarians and the constant and reasonable complaints of those who live near any city dumping-place are beginning to command attention. The practice in our own city should be amended. When we require a man to keep his own premises clean, he very naturally objects to the collected filth and rubbish from a thousand houses being brought and dumped near his door. Such stuff is not made harmless by being collected into a great bank in a ravine, any more than it would be by being left in a great heap on level ground; and streets built in that way can never become proper places for habitations. Decay deep under ground may proceed more slowly, but none the less surely; and it is precisely this decay which goes on with a scant supply of air that is most poisonous and most to be feared. Disease germs buried in the earth have been known to survive for centuries. One instance is where in 1828 the plague broke out at Modena in Italy, as a consequence of an excavation in the ground where three hundred years previously the victims of that disease had been interred. Our city has already extended itself over several old dumping-places, and it will ere long cover those now in use. It is our belief that these spots will be for centuries the vulnerable points where sickness and contagion will oftenest strike the city.

The safest, the most satisfactory, and, as we are assured, the cheapest way of disposing of waste matters in inland cities is by burning. It is claimed to be the cheapest because the attendance required by a furnace is little, if at all, greater than that necessarily bestowed on a dumping-place; and as a furnace can be located and operated in the midst of the city without producing a nuisance, the

cost of a long haul into the suburbs is avoided. During the last twenty years several forms of crematories for garbage have been devised, both in this country and in Europe, which are said to burn up, at a reasonable expense, whatever of organic matter is fed to them so thoroughly as to create no nuisance or danger. In America we have the Rider furnace, which is in use at Pittsburg: the Mann, at Montreal and Chicago; and the Engle, at Milwaukee, Des Moines, Coney Island, and Minneapolis. All these are said to work satisfactorily. The following statement of the work done by the one at Minneapolis is made by Dr. Kilvington, the president of the local board of health: With three men to work the furnace, two of whom were on duty by day and one by night, there were consumed in five days, 33 horses, 59 dogs, 103 barrels of hotel and commission-house refuse, 12 loads of market offal, and 70 loads of manure, weighing in all over 200 tons at a total cost for labor and fuel of \$38.25. And he further states that the "possibility of burning the refuse materials of a great city were without imposing upon its people a penalty of insanitary consequences in the performance of the act, has been established beyond the shadow of a doubt." It is believed that a furnace of this kind, large enough to serve for the next ten years, with a suitable chimney, storage for fuel and shelter for the teams, can be built in Manchester, exclusive of the cost of the lot, for about five thousand dollars.

PUBLIC WATER SUPPLY.

In March last the board sent two samples of water to Prof. Edmund R. Angell, of Derry, for sanitary analysis. His reports are appended. It should be stated that when the reports were made, Prof. Angell had no knowledge as to the sources from which the samples were taken.

Water from the fountain at the City Hall, supplied from the spring on Hanover Square, taken March 16, 1888.

Odorless.

Colorless.

Evaporation, quiet.

Residue, uniform and white.

Total solids, grains per gallon, 12.2.

Residue darkens but slightly on ignition.

Volatile and combustible matter, 4.

Hardness, equivalent to grains of CaCO_3 , 4.5.

Alkalinity, equivalent to grains of CaCO_3 , 0.5.

Chlorine, grains per gallon, 1.7.

Free ammonia, parts per million, none.

Albuminoid ammonia, parts per million, 0.03.

Nitric acid, some.

Nitrous acid, none.

Lead, none.

Iron, slight trace.

Sediment, none.

Microscopic examination shows nothing significant.

Bacterium termo in small number.

Chlorine and nitric acid are in excess. They have filtered through the soil, while the organic matter with which they were associated was retained. There is an unusually small amount of ammonia. This fact, in connection with the slight darkening of the residue during ignition, shows that there is no appreciable amount of organic matter in the water at present. How long it may remain so can best be estimated by examination of the surroundings. But the fact that so much chlorine is present shows some unfavorable connection with the water, and if organic matter itself, in dangerous amount, is not brought into it, there would, nevertheless, be liability of disease germs entering, should they be present in sources of pollution about the premises. Although the present condition of the water does not appear to be prejudicial to health, for reasons given above it must be denominated suspicious water, unless the excess of chlorine and nitric acid can be satisfactorily accounted for in

a way other than to attribute them to some source of filth. The earthy salts are sulphates mostly.

EDMUND R. ANGELL.

DERRY, N. H., March 19, 1888.

Massabesic water (city water), taken from the fountain near the corner of Elm and Myrtle streets, March 21, 1888.

Odor, slight.

Color, marked yellowish brown.

Evaporation, somewhat foamy.

Residue, in circles and patches, brownish.

Total solids, grains per gallon, 2.8.

Residue darkens decidedly on ignition.

Volatile and combustible matter, 0.5.

Hardness, equivalent to grains of CaCO_3 , 2.

Alkalinity, equivalent to grains of CaCO_3 , 1.

Chlorine, grains per gallon, 0.1.

Free ammonia, parts per million, 0.025.

Albuminoid ammonia, parts per million, 0.13.

Nitric acid, slight trace.

Nitrous acid, none.

Lead, none.

Iron, grains per gallon, about $\frac{1}{100}$.

Sediment, none.

Microscopic examination shows nothing significant.

The first portion of condensed steam from this water has a slight odor, which reminds one of decayed wood. The color appears to be due to dissolved organic matter because the residue becomes colorless on ignition, but it would remain brown if the color was owing to iron. The total solids are very small in amount, and the hardness shows that the larger part of them consists of earthy salts.

The amount of albuminoid ammonia shows that the quantity of dissolved organic matter is rather more than desirable, though it is low for river or pond water.

EDMUND R. ANGELL.

DERRY, N. H., March 23, 1888.

It will be seen that the spring water contains more than four times the total solids, eight times as much volatile and combustible matter, and seventeen times as much chlorine as the city water, that it is more than twice as hard, and has more nitric acid; while, on the other hand, it has the advantage as to alkalinity and albuminoid ammonia. This is precisely the kind of water that might be expected from a spring draining a sandy soil covered with houses, and then percolating through the sand of a public square to its outlet. And yet this water, with all its impurities, is doubtless better than that drawn from the wells in the older parts of the city.

THE BACK STREETS.

The condition of these passage-ways is a reproach to the city, for which the board of health is sometimes blamed. Some of these passage-ways are not laid out as highways; most of them are not graded; few are paved or even graveled; and almost without exception they are regarded by all classes of our people as the appointed and proper places for piling wood, drying stable-bedding, throwing slops, waste paper, ashes, kitchen wastes, and every kind of rubbish. A city ordinance forbids these practices; but by general consent it has not been considered to apply to the passage-ways, so that our city, with its well-swept front streets and its dirty back streets, is much like a man with a silk hat, a broadcloth coat, and the most filthy and ragged underclothing. So far as the practices above mentioned are injurious to the public health, they are by law within the cognizance of the board; but they are so firmly rooted in the habits of our people that nothing but the frequent and persistent arrest and punishment of offenders will break them up. This will require a vigilant and constant patrol of these streets by an officer

such as this board has neither the power to appoint nor the means to pay. As things are now arranged, the duty of cleaning and caring for the streets, both front and back, is laid upon other departments; but this board would earnestly suggest, in the interest of the public health, that the time has come when more attention should be given to this matter. All the passage-ways should be laid out as highways, and the work of grading, curbing, and paving should be commenced in earnest. We believe that the more important of these passage-ways should be paved with concrete, as being not as costly as granite block paving or crushed stone, and much more easily cleaned with either shovel, broom, or hose.

SEWERAGE.

The growth of the city has recently been so rapid that a great many localities are in sore need of sewerage. Presuming that the committee of the City Councils having charge of this department will be more thoroughly acquainted with the situation than we are, we yet take the liberty to call attention to two or three items which seem to us to be most urgent.

The very worst sewage nuisance in this city, and one which can be abated for a moderate outlay, is one of which we have spoken in a previous report, and for which the city is itself responsible. We refer to that at the outlet of the sewer under the west end of McGregor bridge. A similar nuisance for which a manufacturing corporation or a private party should be responsible, would not be tolerated. It is hoped that one of the first acts of the committee will be the abatement of this danger to the public health.

Probably no sewer of equal length could be built which is so urgently necessary as one in Massabesic street from

Spruce to the Portsmouth Railroad. The new Spruce-street sewer now affords a way of disposing of the sewage, and the drainage of the many houses in that vicinity ought no longer to be neglected. The needs of the shoe-shop are especially urgent. Last autumn the board consented that, as a temporary arrangement, the drainage of this establishment might be led on to a small piece of flat land by the side of the cemetery brook. It appeared to us that in the present state of things this was the best that could be done, the only alternative being the collection of the drainage in a cesspool, and the carting of it away; but in the hot weather of summer the situation will be dangerous, and if no sewer is provided the alternative may have to be resorted to. It is easy to say that those who located this important enterprise should have placed it where sewers were already built, a rule which if generally followed would stop all extension of the city, or at least compel such extensions to wait until sewers could be built in advance of the shops and dwellings. We hope that the City Councils will find it proper to build this sewer the coming spring.

The marked prevalence of diphtheria in West Manchester last fall, and in Bakersville in the autumn of 1887, though not distinctly proved to be occasioned by lack of sewerage in those localities, is at least sufficient to direct attention to the subject. In both places considerable extensions and improvements are absolutely necessary.

CONCLUSION.

Important interests are committed to the care of your board. Some of the means that have been used to serve them, and others which in our judgment ought to be used, have been spoken of in the preceding pages. There are other sanitary measures which a growing public senti-

ment will sometime permit or demand. Among these may be mentioned an efficient supervision of house plumbing; a medical inspector of the schools, and of the scholars as well; free public baths, both for summer and winter; a summer camp hospital for sick and weakly infants and their mothers, where a healthful location, clean food, pure air, and good attendance can be found, so that cholera infantum will no longer be the most deadly disease in our city.

Perhaps it is not too much to hope that sometime in the future the health department, instead of being regarded as one of the least of municipal affairs, will be seen to have in its keeping interests as important and vital as those of the fire department, the police, or the schools; and that it will be given the means to defend those interests with something more than the thin line of works which is now at its command, — a line which the enemy is always slipping through, and which there is constant danger of his carrying by a general assault.

We append the usual table of mortuary statistics of the year, also a table of comparisons of the last four years. The table for 1887, having never been printed, is also given.

GEORGE C. HOITT,
JOSEPH B. SAWYER,
WILLIAM M. PARSONS,

Board of Health of Manchester.

January, 1889.

TABLE

SHOWING THE MORTALITY OF THE CITY BY DISEASES AND BY MONTHS,
FOR THE YEAR 1888, COMPILED FROM THE RECORDS OF THE CITY
REGISTRAR.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Cholera infantum.....				1	2	4	33	44	22	3	1	...	115
Croup.....	3	3	1	2	1	...	1	1	2	1	2	7	24
Diphtheria.....	1	2	...	...	...	...	1	1	8	8	1	8	30
Diarrhea.....							1	1	...	...	...	...	2
Diarrhea, choleraic.....							1	1	...	...	...	...	1
Diarrhea, chronic.....							1	1	...	...	...	...	2
Dysentery.....							1	2	3	...	...	...	6
Fever.....							...	...	...	1	...	...	1
Fever, congestive.....						1	...	...	...	...	...	...	1
Fever, scarlet.....									1	...	...	...	1
Fever, typhoid.....		1	...		1	2	...		2	...	3	3	12
Fever and ague.....									...	...	...	1	1
Influenza.....									...	...	1	1	1
Inanition.....	1	...	...		1	1	...	...	...	2	1	1	7
Malarial toxemia.....	1	...	...		...	...	...	...	...	...	...	...	1
Measles.....	3	2	...	1	...	3	...	...	...	...	...	...	9
Metria peritonitis.....						1	...	...	...	...	...	...	1
Pymæia.....			2		1	...	...	...	1	...	...	...	4
Septicæmia.....				1	...	1	1	1	...	...	...	...	3
Whooping cough.....				1	1	...	1	...	1	1	...	...	5
	9	8	3	6	7	12	44	52	41	16	9	20	227

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Anæmia.....	1	1	...	...	...	1	1	1	...	...	...	...	5
Cancer.....			1	1	...	1	1	1	...	1	1	...	5
Cancer of breast.....						1	1	...	1	...	...	...	3
Cancer of liver.....		1	...	...	...	...	...	...	...	...	...	...	1
Cancer of stomach.....			1	...	...	...	...	...	...	...	...	...	1
Cancer of throat.....												1	1
Cancer of uterus.....			1	...	...	...	...	...	...	...	...	...	1
Carcinoma of breast.....				1	...	...	...	...	...	...	...	...	1
Carcinoma of uterus.....					1	...	...	...	...	...	...	...	1
Cirrhosis.....		1	...	...	...	...	...	...	...	...	...	...	1
Consumption.....	11	6	15	7	3	9	11	6	11	8	16	6	109
Dropsy.....			2	1	...	...	1	...	1	...	...	...	6
Gangrene.....	1	...	...	...	...	...	...	...	...	...	...	...	1
Hydrocephalus.....	1	...	...	2	...	1	...	...	1	...	1	...	6
Hemorrhage of lungs.....	1	...	...	...	...	...	...	...	...	...	...	1	2
Meningitis, tubercular.....				1	...	...	...	...	...	...	...	...	1
Phthisis, acute.....					1	...	...	...	...	...	...	...	1
Rheumatism.....				1	...	...	...	...	...	...	...	...	1
Rheumatism, chronic.....					1	...	...	...	...	...	...	...	1
Rheumatism of heart.....	1	...	...	...	...	...	...	...	...	...	...	...	1
Rheumatic fever.....												1	1
Sclerosis.....	1	...	...	...	...	...	...	...	...	...	...	...	1
Serofula.....			1	...	...	1	...	...	1	...	1	...	4
Tabes mesenterica.....	1	...	...	...	...	...	...	...	...	...	...	...	1
	18	9	21	14	6	14	14	8	15	9	19	10	157

TABLE. — *Continued.*

CAUSES OF DEATH. <i>Local. — Continued.</i>	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Meningitis.....	1	1	1	2	.....	.....	2	.....	1	.....	.....	1	9
“ cerebro-spinal....	1	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	4
Nephritis, acute.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Nervous exhaustion.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Edema, pulmonary.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Osteo-sarcoma.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	2
Paralysis.....	.....	4	3	1	1	1	1	.....	1	.....	.....	1	13
Peritonitis.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	2
Phlegmon.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Pleurisy.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Pleuro-pneumonia.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	3
Pneumonia.....	9	8	5	1	2	2	3	1	1	3	1	.....	36
“ typhoid.....	1	1	2	.....	1	.....	1	.....	.....	.....	.....	.....	6
Pyelitis.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	2
Stomach, disease of.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
“ ulceration.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	2
Stomatitis.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Thombus, cerebral.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Tumor.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Uræmia.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2
	42	30	30	25	25	17	21	17	22	21	16	22	288

CAUSES OF DEATH. <i>Developmental.</i>	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Asthenia.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Congenital heart disease.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Congenital weakness.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2
Confinement.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Dentition.....	3	.....	2	1	.....	.....	6	.....	2	3	3	.....	20
Debility.....	5	2	4	2	4	2	5	2	2	7	2	4	41
Infantile consumption.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
“ diarrhea.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
“ paralysis.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	2
Marasmus.....	1	.....	1	.....	.....	.....	1	1	.....	1	2	.....	7
Miscarriage.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Old age.....	3	6	1	4	2	3	.....	1	1	2	1	2	26
Premature birth.....	.....	1	.....	2	1	1	.....	.....	.....	.....	.....	1	6
Puerperal convulsions.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Still-births.....	5	8	14	2	5	7	3	7	3	2	3	3	62
Umbilical hemorrhage.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Senile gangrene.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
	18	18	24	11	13	14	16	12	10	16	11	12	175

TABLE. — *Concluded.*

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
<i>Violence.</i>													
Accident, not specified.....	2	.....	.....	.....	2	.....	.....	1	.....	1	.....	.....	6
“ drowning.....	.....	.....	.....	.....	.....	1	2	1	1	.....	.....	.....	5
“ railroad.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
“ bullet wound.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
“ burns.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
“ asphyxia.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
“ concussion of spine.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
“ injuries.....	.....	.....	.....	.....	.....	.....	1	.....	2	1	.....	.....	4
Suicide, not specified.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
“ hanging.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	2
“ opium.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
“ drowning.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
	2	..	1	..	3	3	5	2	3	3	3	1	26
<i>Unclassified.</i>													
Cause not stated... ..	3	7	1	3	11	5	.....	3	1	3	3	1	41
Hemorrhage.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
	3	7	1	3	12	5	..	3	1	3	3	1	42
Totals, all classes.....	92	72	80	59	66	65	100	94	92	68	61	66	915

SOME COMPARISONS OF THE VITAL STATISTICS FOR THE LAST FOUR YEARS.

	1885.	1886.	1887.	1888.
Population estimated.....	38,000	39,000	40,000	41,000
Number of deaths, exclusive of still-born.....	733	725	798	853
Deaths per thousand of population.....	19.29	18.60	19.95	20.80
Deaths of children under 5 years.....	312	313	356	397
Ratio, deaths of children to total deaths, per cent.....	42.56	43.17	44.61	46.54
Deaths of children per thousand of population.....	8.21	8.03	8.90	9.68
Deaths from zymotic diseases.....	231	205	256	227
Deaths from zymotic diseases per thousand of population.....	6.08	5.26	6.40	5.54
Cholera infantum.....	89	116	148	115
Consumption.....	83	109	93	109
Croup.....	12	21	25	24
Diphtheria.....	18	9	17	30
Bronchitis, all forms.....	29	11	29	37
Pneumonia, all forms.....	42	26	39	45
Heart disease, all forms.....	40	37	45	23
Scarlet fever.....	5	..	4	1
Typhoid fever.....	20	12	17	12
Measles.....	36	5	8	9
Whooping cough.....	11	3	1	5
Small-pox.....	3	..	..	..
Births reported.....	1,106	1,207	1,391	..
Births per thousand of population.....	29.11	30.95	34.77	..
Marriages reported.....	404	451	473	439

TABLE. — *Concluded.*

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Stomach, inflammation of.....		1									2		3
Spasms		1		1									2
Suicide.....				1									3
Sunstroke.....						1							1
Syphilis.....						1			1				1
Teething.....	1	1	1			1	2	1		2		4	13
Tumor	1	1											2
Tuberculosis.....									1				2
“ of bowels.....											1		1
Uræmia.....					1		1	1					3
Whooping cough.....			1										1
Weakness	1												1
Cause not reported.....	2	1	2		5	3	1	3	2	1	3	3	26
Totals.....	55	33	47	43	73	48	119	88	81	70	68	73	798
Still-born	3	3	8	3	6	4	4	1	4	4	5	3	48

REPORT
OF THE
MILK INSPECTOR.

REPORT OF THE MILK INSPECTOR.

To His Honor the Mayor and Board of Aldermen of the City of Manchester :

I herewith submit a report for the year 1888.

The first duty of my office was to learn the quality of the milk brought into the city by the various milkmen engaged in the traffic, and also of those milkmen who derive their sources of supply within the limits of the city. To effectually do this, I made a practice of stationing myself on the various roads leading into the city, over which these milkmen drive their loaded teams, arriving at my station at 1 o'clock A. M., and remaining out until 6 A. M., gathering from twelve to twenty samples each morning, taking my sample from a can of my own selection in each load, and properly marking each sample. This gave me a correct idea of what was brought into the city for milk; and in every case I found the samples thus collected, upon analysis, to contain thirteen per cent of total milk solids.

Having thoroughly tested the milk in the different vehicles from which it was sold as they were driven into the city, I next turned my attention to that being delivered to customers in the different parts of the city, and in doing so made a practice of being out, generally twice, each week, except in bad weather, and was in different sections of the city each consecutive morning, and took samples from the cans from which the milkmen were

delivering milk to their customers. Upon testing these samples and comparing the result with that obtained from the samples from the wagons, I had an opportunity to detect any crookedness which might have been practiced between the loads as they were brought in and the milk delivered to customers. This practice I kept up during the summer months, and did not find any crookedness practiced by the milkmen in this way. To effectually attend to this inspection of the milk as being delivered, I patrolled the different parts of the city from 2 o'clock A. M. until 6 o'clock A. M., and I frequently made these sallies among the milk-drivers until January 1, 1889.

I next turned my attention to the milk which was sold in stores, and in doing this I tested and sampled the milk in nearly every store within the city limits, and in each case I found the milk an average with that sold from the wagons. I find the prevalent custom among those who keep milk for sale in stores is to measure out the milk to their customers without first properly stirring or turning the milk from one can to another, in order to thoroughly mix the cream which may have risen to the top of the can with the milk in the can. The result of such carelessness on the part of the seller is to serve his later customers with poorer milk as the bottom of the can is reached.

In my visits to the stores, I found many who were not licensed, and in fact they knew very little or nothing regarding the law regulating the sale of milk. This was particularly so among the French and Swede citizens, who have started in business during the past four years, although a number were found who had been doing a prominent business for a number of years. Although "ignorance of the law excuses no one," it is but right that the offender should be looked up and made to

conform to the statutes, and in every case I found an expressed willingness to obey the law as soon as attention was called to the offence.

During the year, I collected for licenses sixty-one dollars, and issued one hundred and twenty-two licenses. I found one milkman who had not been licensed for two years, and at once took his license fee for three years. There was no intention on his part to evade the law, but it was a case of negligence or carelessness, his license fee being so small a matter that he labored under the impression that it had been paid.

The number of quarts of whole milk consumed in the city daily is 15,048; number of quarts of skimmed milk consumed daily, 1,050. There are seventy-two milkmen, or persons who own routes, and eighty-one wagons are used for conveyance. Estimated number of cows to produce the daily supply of milk for the city, 2,145.

During the year I licensed thirty-three stores for the sale of milk.

The milk supply during the hottest months was short, many milk-drivers being obliged for a time to deliver their load and go back to the farms for the morning's milk, in order to get to all their customers.

I would suggest that the licenses be rated higher, and that the law be changed to that effect, as a license of \$2.50 or even more would meet with the same approval as the one for fifty cents, for carriages, and that the license for stores be rated according to the amount of milk sold, on the same basis.

Among the owners of routes there seems to be a tendency to consolidation, and already there are several original route numbers merged in one; and in several cases there is more than one carriage used upon a single route, and in one case there are four carriages used.

There are but seven dealers who handle, or profess to handle, skimmed milk, and two of these handle skimmed milk only.

In my round of duty, during both day and night, I have always found the drivers and store-keepers courteous and gentlemanly; and I have performed the duties of the office impartially, having attended to the duties of the office wholly myself. I have collected one hundred and eighty samples and have analyzed eighty, and have correctly tested and compared the others, and am satisfied that our citizens are getting as good, if not better, milk than the surrounding cities. I have not had a half-dozen complaints during the year, which tends to show that our milk supply has been quite satisfactory.

Very respectfully, .

H. F. W. LITTLE,

Milk Inspector.

MANCHESTER, January 1, 1889.

ACCOUNT

OF

SYLVANUS B. PUTNAM,

City Treasurer,

FROM DECEMBER 31, 1887, TO DECEMBER 31, 1888.

Dr. *Sylvanus B. Putnam, Treasurer, in account with the*

To cash on hand January 1, 1888	\$67,286 16
Temporary loan	140,000 00
Insurance tax	3,653 25
Railroad tax	16,616 31
Savings-bank tax	57,937 69
Literary fund	3,309 66
Board of paupers off farm	2,074 15
City Farm	1,818 22
Dodge & Laing (overdraft)	11 89
S. P. Pike & Co. (overdraft)	14 31
C. E. Cox (overdraft)	50
Public Market (overdraft)	1 00
Manchester Hardware Co. (overdraft)	38
City teams	2,701 22
Adolph Lossing (overdraft)	75
Albert J. Peaslee, old plank	2 60
Amoskeag Manufacturing Co., crushing stone	300 00
J. S. Paige, weighing stone	24 00
Sewer licenses	1,234 65
Commons, sewer pipe	3 90
Valley Cemetery, sewer pipe	53 10
S. P. Conway, sewer pipe	2 00
E. P. Hull, sewer pipe	2 00
Town of Londonderry, cesspool stone	7 00
Incidental expenses	223 88
C. W. Davis, old junk	86
H. B. Fairbanks, land sold	100 00
Pine Grove Cemetery	4,301 55
Valley Cemetery	1,400 00
Fire department	4,410 32
J. F. Woodbury, old hose	16 70
Police department	7,446 18
Western Union Telegraph Co. (overdraft)	1 49
New England Telephone and Telegraph Co. (overdraft)	11 20
City Hall	2,439 00
A. J. Lane	20 00
Water-works	85,643 82
M. T. Thompson (overdraft)	200 00
<i>Amount carried forward</i>	<u>\$403,269 74</u>

City of Manchester (ending December 31, 1888).

Cr.

By unpaid bills January 1, 1888	\$32,314 82
Temporary loan	140,000 00
Funded debt, payment	36,200 00
Coupons, water bonds	33,772 00
Coupons, city bonds	17,401 87
Interest	2,076 95
Paupers off farm	8,322 92
City Farm	6,635 30
City teams	4,820 86
Highway District No. 1	314 96
" " " 2	9,651 89
" " " 3	971 59
" " " 4	402 31
" " " 5	498 73
" " " 6	411 72
" " " 7	1,114 80
" " " 8	645 24
" " " 9	493 41
" " " 10	2,636 90
" " " 11	1,156 62
" " " 12	378 52
" " " 13	243 72
New highways	4,916 27
Watering streets	4,896 89
Lighting streets	15,763 29
Paving streets	3,521 82
Macadamizing streets	15,654 37
Grading for concrete	4,553 47
Sewers and drains	29,618 46
Commons	3,659 72
Incidental expenses	21,283 14
Pine Grove Cemetery	4,587 58
Valley Cemetery	2,881 17
Amoskeag Cemetery	205 87
Fire department	35,818 58
Fire-alarm telegraph	1,003 73
Individual alarm	716 12
Police department	30,721 29
Hydrant service	21,100 00
<i>Amount carried forward</i>	<u>\$501,366 90</u>

Dr. *Sylvanus B. Putnam, Treasurer, in account with the*

	<i>Amount brought forward</i>	. . . . .	\$403,269 74
To	Mary Y. Crombie (overdraft)	. . . . .	200 00
	Martin Klemke, old boiler	. . . . .	75 00
	Dog licenses	. . . . .	609 00
	Billiard-table licenses	. . . . .	287 00
	Killey & Wadleigh (overdraft)	. . . . .	1 75
	Interest on taxes	. . . . .	322 29
	Taxes for the year 1883	. . . . .	2 96
	“ “ 1884	. . . . .	7 75
	“ “ 1885	. . . . .	19 56
	“ “ 1886	. . . . .	187 63
	“ “ 1887	. . . . .	14,909 37
	“ “ 1888	. . . . .	374,514 56
	Show licenses	. . . . .	174 00
	Rent of tenement	. . . . .	436 19
	Tuition	. . . . .	81 48
	Milk licenses	. . . . .	59 50
	Trustees cemetery fund	. . . . .	2,000 00
	Fletcher Brown (overdraft)	. . . . .	1,750 00
	Mead, Mason & Co., land	. . . . .	1,654 13
			<hr/>
			\$800,561 91
	Unpaid bills January 1, 1889	. . . . .	37,088 16
			<hr/>
	Total	. . . . .	\$837,650 07

City of Manchester (ending December 31, 1888).

Cr.

	<i>Amount brought forward</i>	\$501,366 90
By	City Hall	3,855 41
	Printing and stationery	861 07
	Repairs of buildings	2,028 87
	City Library	3,240 87
	Abatement of taxes	3,024 88
	State tax	63,435 00
	Discount on taxes	10,282 19
	City officers' salaries	14,826 99
	Water-works	39,166 70
	Health department	1,714 40
	City Engineer's department	2,561 80
	Scavenger teams	9,481 75
	Repairs of schoolhouses	4,435 75
	Fuel	3,630 95
	Furniture and supplies	1,221 56
	Books and stationery	554 68
	Printing and advertising	346 52
	Contingent expenses	973 64
	Care of rooms	3,258 36
	Evening schools	1,224 93
	Teachers' salaries	43,401 33
	Mechanical drawing school	593 59
	Equipment of Webster-street engine-house	8,330 90
	Land damage	34 38
	Bridges	4,696 80
	Lake-avenue engine-house	11,500 52
	Women's Aid Society	400 00
	Militia	500 00
	Decoration of soldiers' graves	315 25
	Firemen's parade	390 15
	South-Main-street sewer	1,505 73
	Webster-street engine-house	4,285 16
	City stable	79 68
	Truant officer	750 00
	Stark Monument square	20 25
	Receiving-tomb	4,240 80
	Webster-street extension	995 00
		<hr/>
		\$753,532 76
	Cash on hand January 1, 1889	84,117 31
		<hr/>
	Total	\$837,650 07

FINANCE COMMITTEE'S REPORT.

We hereby certify that we have examined the accounts of Sylvanus B. Putnam, treasurer for the year 1888, and find the same correct, and properly vouched for.

W. B. STEARNS,
JOHN HOSLEY,
O. E. KIMBALL,
CHAS. D. SUMNER;

Finance Committee.

MANCHESTER, January 5, 1889.

REVENUE ACCOUNT.

ACCOUNTS OF APPROPRIATIONS.

TEMPORARY LOAN.

	DR.
To Manchester National Bank	\$60,000 00
Geo. B. Chandler	40,000 00
Second National Bank	40,000 00
	\$140,000 00

	CR.
Paid Manchester National Bank	\$60,000 00
Geo. B. Chandler	40,000 00
Second National Bank	40,000 00
	\$140,000 00

INTEREST.

	DR.
To appropriation	\$18,500 00
Water-works, am't transferred	36,000 00
	\$54,500 00

	CR.
Paid Manchester National Bank	\$1,449 73
Geo. B. Chandler	460 56
Second National Bank	166 66
Coupons, water bonds	33,772 00
Coupons, city bonds	17,401 87
By balance on hand	1,249 18
	\$54,500 00

INTEREST ON TAXES.

To Geo. E. Morrill, collector	\$322 29	DR.
	<u> </u>	\$322 29
By reserved fund, am't transferred	\$322 29	CR.
	<u> </u>	\$322 29

PAUPERS OFF THE FARM.

To appropriation	\$6,000 00	DR.
City of Concord, N. H.	20 00	
County of Hillsborough	2,054 15	
Reserved fund	248 77	
	<u> </u>	\$8,322 92
Paid J. H. Wiggin & Co., groceries for Edward Frenier	\$70 00	CR.
J. H. Wiggin & Co., groceries for Mary Griffin	82 00	
J. H. Wiggin & Co., groceries for Wm. McIntire	24 00	
J. H. Wiggin & Co., groceries for Mrs. T. Egan	111 75	
J. H. Wiggin & Co., groceries for Anthony Smith	25 50	
J. H. Wiggin & Co., groceries for Mrs. T. Burke	16 00	
J. H. Wiggin & Co., groceries for Owen Sullivan	63 89	
J. H. Wiggin & Co., groceries for J. W. Cook	4 00	
J. H. Wiggin & Co., groceries for Ceylon A. Clark	24 00	

Paid J. H. Wiggin & Co., groceries for Wm. Conley	\$3 00
W. F. Sleeper & Co., groceries for Bart Doyle	43 00
W. F. Sleeper & Co., groceries for Catharine Sullivan	48 00
W. F. Sleeper & Co., groceries for Mrs. D. McKay	69 00
W. F. Sleeper & Co., groceries for Mrs. J. O'Brien	72 00
W. F. Sleeper & Co., groceries for G. Rochette	56 00
W. F. Sleeper & Co., groceries for Wm. Conway	88 97
W. F. Sleeper & Co., groceries for John J. Hayes	51 00
W. F. Sleeper & Co., groceries for Ed. Stanton	22 00
W. F. Sleeper & Co., groceries for John Harrington	45 00
W. F. Sleeper & Co., groceries for Michael Spane	26 00
W. F. Sleeper & Co., groceries for Jerry Cronin	32 00
W. F. Sleeper & Co., groceries for Joseph French	48 00
W. F. Sleeper & Co., groceries for Thos. Kelley	40 00
W. F. Sleeper & Co., groceries for Mrs. O. McPherson	81 00
W. F. Sleeper & Co., groceries for Angeline Messier	12 00
W. F. Sleeper & Co., groceries for Mrs. Thos. Keefe	14 00

Paid W. F. Sleeper & Co., groceries for Thos. Burke . . .	\$12 00
W. F. Sleeper & Co., groceries for Ellen Sullivan . . .	7 00
W. F. Sleeper & Co., groceries for Mrs. D. Graham . . .	5 00
W. F. Sleeper & Co., groceries for Hugh Donahoe . . .	4 84
W. F. Sleeper & Co., groceries for Wm. Coombs . . .	3 00
McQuade Bros., groceries for Steve Sullivan . . .	59 76
McQuade Bros., groceries for Wm. Coombs . . .	75 00
McQuade Bros., groceries for Ellen Sullivan . . .	85 00
McQuade Bros., groceries for Angeline Messier . . .	42 00
McQuade Bros., groceries for Jerry Cronin . . .	64 00
McQuade Bros., groceries for Mary Fitzgerald . . .	14 65
McQuade Bros., groceries for Mrs. D. Graham . . .	10 00
McQuade Bros., groceries for Mrs. Thos. Keefe . . .	63 00
McQuade Bros., groceries for Thomas Burke . . .	8 00
Carl E. York, groceries for Mrs. P. Ducherme . . .	41 00
Carl E. York, groceries for A. Webster . . .	8 00
J. Taylor & Son, groceries for Kate Tate . . .	6 00

Paid J. Taylor & Son, groceries for Nahum Dickey . . .	\$11 96
J. Taylor & Son, groceries for S. W. Putney . . .	15 00
Joseph Quirin, groceries for William Coombs . . .	30 00
Joseph Quirin, groceries for Joseph Guevin . . .	51 92
Joseph Quirin, groceries for David Vadeboncour .	8 00
Joseph Quirin, groceries for Joseph French . . .	32 00
Joseph Quirin, groceries for John Murray . . .	65 00
Geo. W. Adams, groceries for Mary Doherty . . .	27 00
Geo. W. Adams, groceries for E. C. Miller . . .	25 85
Geo. W. Adams, groceries for Hugh Donahoe . . .	10 00
Geo. W. Adams, groceries for Mary Fitzgerald . . .	22 97
Geo. W. Adams, groceries for James Callahan . . .	62 00
Geo. W. Adams, groceries for Bridget Sullivan . . .	46 00
Geo. W. Adams, groceries for Owen Sullivan . . .	32 00
Geo. W. Adams, groceries for Lizzie Cronin . . .	9 00
Geo. W. Adams, groceries for A. B. Webster . . .	10 00
Geo. W. Adams, groceries for Mary Donovan . . .	2 00

Paid Geo. W. Adams, groceries for Joseph Guevin . . .	\$6 00
James Hayes, groceries for Mary Fitzgerald . . .	21 59
H. B. Sawyer, groceries for N. M. Randall . . .	23 68
H. B. Sawyer, groceries for Mary Sawyer . . .	5 00
Eager & Rand, groceries for S. W. Putney . . .	12 59
Eager & Rand, groceries for Walter Towne . . .	22 58
Eager & Rand, groceries for Mrs. Ed. O'Hern . . .	55 00
H. Fradd & Co., groceries for Ed. Boyle . . .	60 10
H. Fradd & Co., groceries for Mrs. D. Connor . . .	36 00
H. Fradd & Co., groceries for Mrs. Ann Hunter . . .	128 04
H. Fradd & Co., groceries for Mrs. Gowett . . .	21 02
H Fradd & Co., groceries for Mrs. James Burpee . . .	5 00
E. E. Colburn, groceries for J. S. Gamble . . .	120 00
Bartlett & Thompson, gro- ceries for Levi M. Green . . .	82 00
P. Harrington, groceries for Mrs. James McGovern . . .	60 00
P. Harrington, groceries for Mrs. James Otis . . .	84 00
T. F. Fifield, groceries for Bridget Milne . . .	72 00

Paid T. F. Fifield, groceries for Joseph Guevin . . .	\$6 00
T. F. Fifield, groceries for Lena Moody . . .	5 00
S. L. Flanders, groceries for Mrs. W. A. Proctor . .	13 00
S. L. Flanders, groceries for Mrs. J. Kenney . . .	24 00
Charles T. Allen, groceries for Bart Moriarty . . .	80 00
Geo. C. Lord, groceries for N. B. Dickey . . .	12 00
A. M. Eastman, groceries for Sarah Pilkington . .	6 00
E. L. Bryant, groceries for Peter Hunt . . .	6 00
D. M. Poore, groceries for Mrs. W. A. Proctor . .	10 00
A. G. Grenier, groceries for Joseph Guevin . . .	6 00
A. L. Gadbois, groceries for T. P. Frost . . .	6 00
Bartlett & Thompson, gro- ceries for L. M. Green . .	6 00
Town of New Boston, board of Joseph Foss . . .	35 05
Enfield, board of George W. Berry	18 40
Candia, board of Mrs. George H. Johnson . .	26 28
Candia, board of Mrs. Geo. H. Johnson	8 48
City of Portsmouth, board of William Coombs . .	11 25

Paid County of Hillsborough, board of Patrick Keefe .	\$70 00
County of Hillsborough, Asenath H. White .	104 00
County of Hillsborough, board, J. J. Murray .	104 00
County of Hillsborough, board of Emerson child	31 00
County of Hillsborough, board of Sheehan child	31 00
Anna Collins, board of John M. Day . . .	50 00
Thomas Kelly, board of Thomas Kelly, Jr. .	76 00
State Industrial School, board of inmates . .	2,447 14
Sarah Abbott, board of Tim- othy Clark	85 00
A. A. Puffer, board of Charles Moore . . .	88 00
Women's Aid Hospital, board of H. W. Fisher .	81 00
Esther L. Ingham, board of Mary F. Ingham . . .	120 00
Mrs. William Chase, board of Thomas Chase . . .	120 00
Lyman Dickey, board of Nahum Dickey	60 00
Nellie M. Worthley, board of William Worthley .	36 00
Ansel D. Hatch, board of James W. Hatch . . .	80 00
Mrs. E. B. Fellows, board of Willie Gray	67 00

Paid Josie A. Haff, board of Fred Haff	\$94 45
Mary J. Crosbie, board of Richard Spring	140 00
J. D. Welcome, board of Doherty children	144 00
L. A. Wright, board of Kate Tate	101 00
Mrs. Gideon Rochette, board of Hector Rochette	21 00
J. Stark Webster, board of William Griffin	4 00
Henry C. Tilton, board of Isette E. Foster	5 00
Daniel E. Sullivan, board of Owen Sullivan	18 00
William Ferren, bread for Mrs. Wilcott	55
L. B. Bodwell & Co., wood for William Coombs	40 00
L. B. Bodwell & Co., coal for T. P. Frost	4 00
L. B. Bodwell & Co., wood for Bart Doyle	26 00
L. B. Bodwell & Co., coal for Mrs. Solon Batchelder	4 00
L. B. Bodwell & Co., wood for John Harrington	11 00
L. B. Bodwell & Co., wood for Bart Doyle	3 00
L. B. Bodwell & Co., wood for Michael Spane	8 00
L. B. Bodwell & Co., wood David Vadeboncour	2 00

Paid L. B. Bodwell & Co., wood for Edward Stanton	\$10 00
L. B. Bodwell & Co., wood for Mrs. D. McKay	2 00
L. B. Bodwell & Co., wood for Mrs. Samuel Gray	1 00
L. B. Bodwell & Co., wood for Thomas Burke	4 00
L. B. Bodwell & Co., wood for Joseph French	8 00
Moore & Preston, wood for Edward Frenier	20 00
Moore & Preston, wood for Levi M. Green	19 00
Moore & Preston, wood for William McIntire	4 00
Moore & Preston, wood for Mary Griffin	6 00
Moore & Preston, wood for J. S. Gamble	8 00
E. P. Johnson Co., coal for S. W. Putney	16 75
E. P. Johnson Co., coal for N. M. Randall	9 00
E. P. Johnson Co., coal for A. Webster	3 75
E. P. Johnson Co., coal for James Callahan	4 50
E. P. Johnson Co., coal for Walter D. Towns	2 00
Burns & Poore, coal for James Callahan	12 25
Burns & Poore, coal for Mrs. G. Woodman	4 00

Paid Burns & Poore, coal for Joseph Guevin . . .	\$4 00
Burns & Poore, wood for John Flynn . . .	4 00
Melvin Wason, wood for Owen Sullivan . . .	2 00
Melvin Wason, wood for John Flynn . . .	2 50
Melvin Wason, wood for Mary Doherty . . .	2 50
J. F. Wyman, wood for James Hunter . . .	5 50
J. F. Wyman, wood for Mrs. Ansell . . .	1 00
J. H. DeCoursey, wood for Kate Tate . . .	8 00
J. H. DeCoursey, wood for William McIntire . . .	2 00
Wason & Lynch, wood for John Flynn . . .	32 45
S. L. Flanders, wood for John Kenney . . .	13 01
S. L. Flanders, wood for Mrs. William A. Proctor	9 26
E. V. Turcotte, wood for Joseph Guevin . . .	4 40
DeCoursey & Holland, wood for William McIntire . . .	7 00
L. S. Proctor, wood for L. M. Green . . .	10 00
J. W. Kimball, wood for J. H. Day . . .	1 00
J. W. Kimball, wood for Joseph Guevin . . .	7 25

Paid J. W. Kimball, wood for	
Mary Doherty . . .	\$2 50
George Whitford, wood for	
Mary Doherty . . .	10 50
George Whitford, wood for	
Hugh Donahoe . . .	3 00
George Whitford, wood for	
N. M. Randall . . .	8 00
Z. F. Campbell, medicines	3 30
Geo. E. Hall, medicines .	5 00
L. K. Mead, medicines .	32 15
A. & W. S. Heath, boots	
and shoes	16 25
Dodge & Straw, boots and	
shoes	16 70
George Dodge, boots and	
shoes	3 15
J. F. Gillis, boots and shoes	3 50
Wingate & Gould, shoes .	1 25
J. M. Robinson, shoes .	65
F. C. Dow, boots and shoes	3 00
Plumer & Holton, clothing	
for Anthony Smith .	13 00
Plumer & Holton, clothing	
for Timothy Clark . .	22 24
Plumer & Holton, clothing	
for N. Dickey	7 50
J. T. Donahoe, clothing for	
J. M. Day	9 40
J. T. Donahoe, clothing for	
Proctor child	2 50
Manchester One-Price Cloth-	
ing Co., clothing for	
French children	21 25

Paid Manchester One-Price Clothing Co., clothing for William Coombs . . .	\$13 00
Geo. A. Parsons, clothing for Kate Tate . . .	8 34
Hawley & Gilbert, clothing for Kate Tate . . .	2 66
Weston & Hill, dry goods for Mrs. W. A. Proctor .	3 53
L. A. Wright, rent for Kate Tate . . .	3 00
Walter A. Green, rent for Frank McGone . . .	64 00
A. G. Fairbanks, rent for Ceylon Clark . . .	18 00
Weston & Wheat, rent for William McIntire . . .	48 00
Blodgett & Clark, rent for William Coombs . . .	45 00
F. L. Wallace, undertaker .	50 50
P. A. Devine, undertaker .	25 00
F. X. Chenette, undertaker .	20 00
A. E. Morse, undertaker .	10 00
L. A. Wright, filling bed .	1 00
Temple & Farrington Co., stationery . . .	14 40
Horace Gordon, transportation of paupers . . .	4 00
Eben T. James, transportation of paupers . . .	1 50
Mary E. Wilson, car-fare of Robert C. Dow to Vermont . . .	5 00

Paid James Sutcliffe, car-fare to Newmarket, N. H.	\$0 78	
Ormond D. Kimball, print- ing	15 25	
Geo. Blanchet, clothing for G. Ducine	5 06	
B. N. Wilson, transporta- tion of Frank Maycook to Insane Asylum	4 25	
N. H. Asylum for Insane, board and care of Frank Maycook	14 33	
	<hr/>	\$8,322 92

CITY FARM.

		DR.
To appropriation	\$3,500 00	
Dodge & Laing (overdraft)	11 89	
S. P. Pike & Co. (overdraft)	14 31	
C. E. Cox (overdraft)	50	
Manchester Public Market (overdraft)	1 00	
Manchester Hardware Co. (overdraft)	38	
J. H. Willey, superintendent	1,452 01	
J. H. Willey, superintendent	366 21	
Reserved fund	1,655 21	
	<hr/>	\$7,001 51
		CR.
Paid McQuade Bros., groceries	\$425 46	
Bartlett & Thompson, gro- ceries, etc.	132 49	
A. M. Eastman, groceries, etc.	32 54	

Paid J. H. Wiggin & Co., groceries, etc.	\$21 67
Carl E. York, groceries, etc.	10 80
A. N. Clapp, kerosene oil	18 65
E. M. Slayton, potatoes, etc.	148 90
H. Marshall, butter	27 82
Joseph Quirin, groceries	8 22
Carl E. York, groceries	18 24
G. W. Batchelder, potatoes	27 30
Dodge & Laing, butter	45 46
W. D. Ladd & Co., crackers	10 15
George C. Lord, groceries, etc.	1 19
John McKeon, groceries, etc.	7 20
W. F. Sleeper & Co., groceries, etc.	1 53
C. F. Fifield, groceries, etc.	5 24
J. W. Monroe & Co., molasses	40 46
E. S. Newton, fish	9 83
A. G. Grenier, groceries	2 45
George W. Adams, groceries	1 35
E. S. Newton, fish	8 42
C. E. Cox, meats	228 34
Clough & Co., meats	29 24
S. P. Pike & Co., meats	75 28
F. D. Hanscom, meats	19 58
J. B. Varick Co., hardware, etc.	80 67
Killey & Wadleigh, hardware, etc.	66 25
Manchester Hardware Co., hardware, etc.	10 64
T. A. Lane, plumbing, etc.	26 06

Paid C. H. Hutchinson, castings, etc.	\$5 65
Thorp & Bartlett, repairing stoves, etc.	26 70
D. E. Guiney, plumbing, etc.	51 09
J. B. McCrillis & Son, repair- ing carts, etc.	9 35
John Hayes & Co., grain and meal	2 60
Merrill & Freeman, grain and meal	97 01
Merrill Bros., grain and meal	112 68
W. S. Jewell, grain and flour	32 56
Pettee & Adams, grain, etc.	26 80
Drake & Dodge, grain and flour	160 20
Cavanaugh Bros., oats	30 00
Carney, Lynch & Co., grain	15 54
Charles H. Bunton, black- smithing	19 00
J. F. Woodbury & Co., black- smithing	7 50
R. W. Flanders, blacksmith- ing	6 35
Thomas Hickey, blacksmith- ing	11 50
George H. Hubbard, tobacco	4 90
Robinson Bros., tobacco	10 08
John Eaton, tobacco	19 50
L. P. Reynolds, tobacco	84 95
R. G. Sullivan, tobacco	11 35
F. P. Kimball, clothing, etc.	32 50
J. G. Lake, sweat-collars	3 00

Paid Thomas P. Riley, repairing harness, etc.	\$23 25
Cavanaugh Bros., repairing harness, etc.	12 10
Cavanaugh Bros., democrat wagon	110 00
Cavanaugh Bros., horse	225 00
D. Kerwin, soap, pearline, etc.	47 39
N. E. T. & T. Co., telephone	42 15
Head & Dowst, lumber and labor	69 34
J. Hodge, lumber	5 51
D. Lothrop & Co.	45 00
James Briggs	2 50
W. F. Robie, professional services	2 00
F. L. Downs, shoes	5 25
J. B. Baril, medicine	2 30
J. H. Pierce & Co.	2 11
Barton & Co., dry goods	11 58
George Blanchet, dry goods	9 67
Weston & Martin, socks	1 80
Manchester One-Price Clothing Co., clothing	49 79
Weston & Hill, dry goods, carpets, etc.	135 06
J. A. Folsom, clothing	3 75
George W. Chapman	1 00
E. M. Slayton, potatoes	22 43
Burns & Poore, guano and coal	20 00
J. R. Carr, wall-paper, etc.	18 97
Pamelia J. Page, manure	3 75

Paid E. H. Currier, drugs, etc.	\$3 18
J. Blakely, professional services	10 00
J. A. Langley, fish	4 93
S. P. Pike & Co., meats	14 31
F. L. Wallace & Co., undertakers	22 50
C. E. Cox, meats	17 44
Geo. H. Penniman, tin ware, etc.	2 55
D. Kerwin, starch	4 60
Joseph Quirin, groceries, etc.	9 26
Helen Parsons, manure	4 00
W. W. Critchett, cow	50 00
James Brothers, manure	76 00
J. Stickney, leather, etc.	5 66
C. M. Bailey, brooms, etc.	4 75
J. Blakely, professional services	35 00
Brock & Driscoll, kitchen furniture, etc.	7 55
E. P. Johnson Co., coal	2 00
C. M. Bailey, brooms, etc.	4 75
J. Bryson, Jr., paints, etc.	3 26
E. P. Richardson, insurance	210 00
H. D. Gordon, chairs	14 00
L. B. Bodwell & Co., filling icehouse, etc.	10 50
J. S. & M. R. Burbank & Co., cabbages, etc.	2 60
J. O. Smith, horse	250 00
Burns & Poore, coal	2 00
C. H. Hodgman, soap	3 50
C. M. Bailey, brooms, etc.	6 38

Paid J. Blakely, professional services	\$14 50
D. S. Adams, professional services	5 00
J. H. Proctor, use of oxen	6 75
Geo. H. Penniman, tin pans	3 00
H. B. Fairbanks, chair	1 00
Myron Richardson, making cider	11 25
R. M. Rollins, repairing mowing-machine	5 00
A. & E. Reed Bros., mason-work	10 50
E. P. Johnson Co., coal	280 18
F. B. Potter, Akron pipe	8 39
C. A. Eastman, cows	150 00
J. S. Holt & Co., soap	48 07
Blackstone & Fisher, dentistry	1 50
J. H. Willey and wife	800 00
A. & E. Reed Bros., mason-work	7 50
Geo. E. Hall, medicine, etc.	14 80
F. P. Colby, manure	5 00
William E. Moore, printing	3 00
M. O'Dowd, overalls	9 00
J. A. Langley, fish	9 56
Charles H. Thayer, boots	3 75
C. M. Bailey, chopping-trays	1 10
C. M. Bailey, brooms	2 25
Amoskeag Fire Insurance Co., insurance	30 00
Dodge & Straw, boots	6 75
D. E. Guiney, plumbing, etc.	26 33

Paid Wingate & Gould, rubber boots	\$5 50	
F. L. Downs, boots	5 75	
McDonald & Cody, boots	3 00	
G. W. Dodge, boots and shoes	19 05	
H. H. Duncklee, swill	40 00	
Dodge & Straw, boots	5 00	
W. P. Merrill, meats	17 75	
J. B. McCrillis & Son, repairing cart	1 25	
Labor, men and women	1,049 73	
L. K. Mead, medicine	24 35	
J. B. Clarke, printing	1 65	
J. O. Burbank, medicine	11 90	
George C. Lord, groceries	2 40	
J. A. Langley, fish	4 13	
By balance on hand	366 21	
	<hr/>	\$7,001 51

CITY TEAMS.

To appropriation	\$3,000 00	DR.
Labor in Districts Nos. 2 and 10	2,508 22	
Labor in District No. 2	193 00	
	<hr/>	\$5,701 22
Paid City Farm, hay	\$103 39	CR.
C. N. Harvey, straw	21 89	
L. Shelters, hay	46 35	
D. Butterfield, hay	46 25	
C. D. Welch, hay	78 80	
C. C. Webster, hay	85 95	

Paid William M. Moore, hay	\$31 23
A. A. Mitchell, hay	20 70
George Thompson, straw	25 86
J. J. Perley, hay	15 97
H. A. Horton, carrots	25 50
J. Hayes & Co., grain	162 88
Pettee & Adams, grain	127 89
Drake & Dodge, grain	181 75
H. Fradd & Co., grain	10 00
Merrill & Freeman, grain	183 54
Partridge Brothers	349 85
Merrill Brothers, grain	415 84
A. H. Stark, painting carts	58 00
I. S. York, repairing har- ness, etc.	2 60
F. N. McLaren, repairing harness, etc.	108 75
N. J. Whalen, repairing harness, etc.	2 25
H. C. Ranno, repairing har- ness, etc.	8 85
J. G. Lake, repairing har- ness, etc.	20 65
Thomas P. Riley, repairing harness, etc.	164 65
Cavanaugh Bros., repairing harness, etc.	25 55
J. T. Beach, repairing wagons	76 15
J. F. Conway, repairing wagons, etc.	4 25
J. B. Varick Co., hardware, etc.	22 53

Paid Killey & Wadleigh, hard- ware, etc.	\$2 82
Manchester Hardware Co., hardware, etc.	20 39
Dr. J. Alexander, profes- sional services	23 50
Dr. J. Blakely, professional services	38 00
Dr. W. F. Robie, profes- sional services	18 50
Thomas Hickey, blacksmith- ing	13 75
Welcome & Co., blacksmith- ing	2 00
R. W. Flanders, blacksmith- ing	14 15
D. F. Cressey, blacksmith- ing	7 23
J. F. Woodbury & Co., blacksmithing	193 15
J. O. Tremblay, black- smithing	81 25
Leander Pope, blacksmith- ing	25
T. A. Lane, plumbing, etc.	4 10
Sanborn Carriage Co., re- pairing wagon	5 95
J. B. McCrillis & Son, re- pairing wagons	154 81
Westover & Gould, carpen- ter-work	22 97
J. B. Nourse, carpenter- work	9 48

Paid Nourse & Briggs, carpenter- work	\$14 69	
A. G. Grenier, carrots	4 00	
A. W. Baker, horse dentis- try	18 00	
Teamsters	1,716 09	
Z. F. Campbell, medicines, etc.	23 36	
Pike & Heald, plumbing	3 45	
J. R. Carr, paint	1 10	
By reserved fund, amount trans- ferred	880 36	
	<u> </u>	\$5,701 22

HIGHWAY DISTRICT NO. 1.

		DR.
To appropriation	\$300 00	
Reserved fund, amount trans- ferred	14 96	
	<u> </u>	\$314 96
		CR.
Paid labor of men and teams	\$314 96	
	<u> </u>	\$314 96

HIGHWAY DISTRICT NO. 2.

		DR.
To appropriation	\$9,500 00	
Adolphe Laing (overdraft)	75	
Reserved fund, amount trans- ferred	151 14	
	<u> </u>	\$9,651 89

Paid Killey & Wadleigh, hardware, etc.	\$185 74
Manchester Hardware Co., hardware, etc.	103 93
J. B. Varick Co., hardware, etc.	178 39
T. A. Lane, plumbing, etc.	17 75
C. H. Hutchinson, iron-work, etc.	13 21
S. C. Forsaith Machine Co., sawdust	4 00
D. E. Guiney, plumbing, etc.	8 75
T. W. Lane, stationery, etc.	3 85
Westover & Gould, filing saws, lumber, etc.	21 70
Head & Dowst, lumber, etc.	15 65
J. B. Nourse, lumber, etc.	16 25
A. J. Sawyer, lumber, etc.	47 46
George Holbrook, lumber	75
People's Gas-light Co., gas	39 48
J. Taylor & Son, rock salt, oil, etc.	49 72
E. Frye, blacksmithing	10 85
R. W. Flanders, blacksmithing	38 65
Joseph Greenwood, blacksmithing	9 60
Charles H. Bunton, blacksmithing	16 80
W. H. Vickery, keys, etc.	2 40
Temple & Farrington Co., record-book, stationery, etc.	18 97

Paid J. Stickney, rubber boots, etc.	\$15 25	
M. F. Dodge, gravel	33 50	
T. L. Thorpe, bags	2 00	
Heath & Stevens, stonework	10 85	
C. A. Willey estate, gravel	17 50	
Carpenter & Co., brooms	2 25	
B. & M. R. R. Corporation, freight	5 40	
Snelling & Woods, sulphur	30	
J. B. McCrillis & Son, re- pairing teams, etc..	170 61	
Manchester Locomotive Works, two fifths porta- ble boiler	200 00	
National Novelty Supply Co., wrench	1 50	
M. J. Coleman, ironwork, etc.	3 15	
Pike & Heald plumbing, etc.	10 34	
Labor of men and teams	8,375 34	
	<u> </u>	\$9,651 89

HIGHWAY DISTRICT NO. 3.

		DR.
To appropriation	\$1,000 00	\$1,000 00
	<u> </u>	
		CR.
Paid B. H. Piper, hammer handles	\$0 80	
Manchester Hardware Co., hardware, etc.	1 00	

Paid J. B. Varick Co., hardware, etc.	\$16 59	
Head & Dowst, lumber	12 69	
Betsey Chase, gravel	11 80	
J. F. Chase, gravel	14 30	
Palmer & Garmon, stone chips	2 25	
R. W. Flanders, blacksmith- ing	1 20	
Reserved fund	28 41	
Labor of men and teams	910 96	
	<hr/>	\$1,000 00

HIGHWAY DISTRICT NO 4.

		DR.
To appropriation	\$400 00	
Reserved fund	2 31	
	<hr/>	\$402 31
		CR.
Paid Head & Dowst, plank	\$6 69	
Devonshire Mills, gravel	11 22	
Labor of men and teams	384 40	
	<hr/>	\$402 31

HIGHWAY DISTRICT NO. 5.

		DR.
To appropriation	\$500 00	
	<hr/>	\$500 00
		CR.
Paid R. W. Flanders, blacksmith- ing	\$2 82	
J. T. Beach, blacksmithing	70	

Paid Head & Dowst, lumber	\$19 36	
J. B. Varick Co., hardware	60	
Labor of men and teams	475 25	
By balance on hand	127 00	
	<u> </u>	\$500.00

HIGHWAY DISTRICT NO. 6.

		DR.
To appropriation	\$400 00	
Reserved fund	11 72	
	<u> </u>	\$411 72
		CR.
Paid James Morrison, bolts	\$1 00	
Leander Pope, blacksmithing	75	
J. B. Varick Co., hardware	78	
Labor of men and teams	409 19	
	<u> </u>	\$411 72

HIGHWAY DISTRICT NO. 7.

		DR.
To appropriation	\$1,100 00	
Reserved fund	14 80	
	<u> </u>	\$1,114 80
		CR.
Paid R. W. Flanders, blacksmithing	\$4 95	
F. S. Bodwell, covering stone	13 50	
Head and Dowst, lumber	6 60	
J. B. Varick Co., hardware	10 96	
Labor of men and teams	1,078 79	
	<u> </u>	\$1,114 80

HIGHWAY DISTRICT NO. 8.

To appropriation	\$700 00	DR.
	<u> </u>	\$700 00
		CR.
Paid Manchester Hardware Co., hardware	\$14 25	
Reserved fund	54 76	
Labor of men and teams	630 99	
	<u> </u>	\$700 00

HIGHWAY DISTRICT NO. 9.

To appropriation	\$500 00	Dr.
	<u> </u>	\$500 00
		CR.
Paid E. J. O'Brien, blacksmith- ing	\$1 60	
J. B. Varick Co., hardware	7 80	
Labor of men and teams	484 01	
By balance on hand	6 59	
	<u> </u>	\$500 00

HIGHWAY DISTRICT NO. 10.

To appropriation	\$2,500 00	DR.
Reserved fund	136 90	
	<u> </u>	\$2,636 90
		CR.
Paid A. N. Clapp, hardware	\$0 85	
People's Gas-light Co., gas	4 48	

Paid Killey & Wadleigh, hardware	\$6 50	
J. B. Varick Co., hardware	6 70	
Thos. A. Lane, plumbing, etc.	2 93	
C. H. Hutchinson, iron-work, etc.	8 92	
Temple & Farrington Co., time books, etc.	9 85	
Labor of men and teams	2,596 67	
	<u> </u>	\$2,636 90

HIGHWAY DISTRICT NO. 11.

		DR.
To appropriation	\$1,000 00	
Reserved fund	156 62	
	<u> </u>	\$1,156 62
		CR.
Paid Killey & Wadleigh, hardware	\$5 00	
Manchester Hardware Co., hardware	4 04	
J. B. Varick Co., hardware	3 32	
S. L. Flanders, spikes and nails	2 46	
William Hoyt, gravel	2 70	
L. D. Colby, gravel	5 50	
Daniel Farmer, gravel	6 10	
Elizabeth Farmer, gravel	14 50	
Labor of men and teams	1,113 00	
	<u> </u>	\$1,156 62

HIGHWAY DISTRICT NO. 12.

			DR.
To appropriation.	. . .	\$300 00	
Reserved fund	. . .	78 52	
		<u> </u>	\$378 52
			CR.
Paid Gilman K. Worthen, labor		\$2 62	
John Moss, labor	. . .	4 25	
City Farm.	. . .	371 65	
		<u> </u>	\$378 52

HIGHWAY DISTRICT NO. 13.

			DR.
To appropriation	. . .	\$200 00	
Reserved fund	. . .	43 72	
		<u> </u>	\$243 72
			CR.
Paid labor of men and teams	. . .	\$243 72	
		<u> </u>	\$243 72

NEW HIGHWAYS.

			DR.
To appropriation	. . .	\$6,000 00	
		<u> </u>	\$6,000 00
			CR.
Paid Warren Harvey, stone	. . .	\$31 14	
A. G. Gage	. . .	17 00	
F. A. Emerson, stone	. . .	60 00	
Killey & Wadleigh, hardware, etc.	. . .	19 62	
J. B. Varick Co., hardware, etc.	. . .	11 00	

Paid J. Hadlock, road-machine	\$258 00	
Reserved fund	1,083 73	
Labor of men and teams	4,519 51	
	<u> </u>	\$6,000 00

LAND DAMAGE.

		DR.
To appropriation	\$1,000 00	
	<u> </u>	\$1,000 00
		CR.
Paid William H. Martyn, Carroll street	\$10 00	
William Starr, Manchester street	24 38	
Reserved fund	965 62	
	<u> </u>	\$1,000 00

WATERING STREETS.

		DR.
To appropriation	\$4,500 00	
Reserved fund	396 89	
	<u> </u>	\$4,896 89
		CR.
Paid Manchester Water - works, water	\$2,590 00	
Pike & Heald, repairing sprinkler, etc.	2 25	
Pike & Heald, repairing sprinkler, etc.	4 91	
T. A. Lane, stand-pipes, etc.	145 70	
J. B. McCrillis & Son, repairing water-carts, etc.	185 15	

Paid A. L. Putnam, repairing water-carts, etc.	\$6 45	
J. F. Larkin, stand-pipes, etc.	26 35	
Labor of men and teams	1,936 08	
	<u> </u>	\$4,896 89

LIGHTING STREETS.

		DR.
To appropriation	\$16,000 00	
	<u> </u>	\$16,000 00
		CR.
Paid People's Gas-light Co., gas, and lighting and oil, etc. \$9,308 52		
Manchester Electric Light Co.	4,884 00	
Ben Franklin Electric Light Co.	1,294 40	
C. H. Hutchinson, lamp- posts	18 50	
A. H. Lowell, lamp-posts, etc.	57 40	
C. M. Bailey, chimneys, wicks, etc.	149 92	
A. N. Nettel, chimneys, oil, etc.	7 55	
J. B. Clarke, printing	17 50	
Daily Press Association, printing	10 50	
Union Publishing Co., printing	15 00	
Reserved fund	236 71	
	<u> </u>	\$16,000 00

PAVING STREETS.

		DR.
To appropriation	\$3,000 00	
Reserved fund	521 82	
	<hr/>	\$3,521 82
		CR.
Paid Charles H. Robie, concret- ing	\$826 68	
W. H. Colburn, paving- stone	331 50	
J. H. Colburn, paving-stone	103 50	
H. A. Horton, paving-stone	49 50	
George M. Bean, paving- stone	21 00	
E. H. Currier, paving-stone	12 00	
J. L. Fogg, paving-stone .	70 50	
J. H. Proctor, paving-stone	6 00	
W. G. Butterfield, paving- stone	3 00	
Manchester Broom Co., re- filling street-sweeper .	33 25	
J. B. Varick Co., hardware, etc.	2 58	
Labor of men and teams .	2,062 31	
	<hr/>	\$3,521 82

MACADAMIZING STREETS.

		DR.
To appropriation	\$15,000 00	
Amoskeag Manufacturing Co., crushing stone. . . .	300 00	
Reserved fund	354 37	
	<hr/>	\$15,654 37

Paid H. S. Plumer, stone . . .	\$135 08
Peter Kean, stone . . .	56 87
Charlotte A. Willey estate, stone	128 95
Joseph A. Brown, stone . . .	20 41
J. G. Ellinwood, stone . . .	37 43
T. Shea, stone	28 28
H. S. Hoitt, stone	6 86
F. A. Emerson, stone	8 14
J. Fullerton, stone	21 04
F. A. Emerson, stone	38 22
F. S. Bodwell, stone	454 69
G. W. Butterfield, stone . . .	54 29
J. L. Fogg, stone	50 00
J. Fullerton, stone	65 26
E. C. Tilton, stone	9 66
H. Holbrook, stone	20 08
D. Butterfield, stone	100 11
J. A. Weston & Co., stone . . .	32 22
L. J. Proctor, stone	31 91
H. S. Hoitt, stone	13 50
Joseph Peltier, stone	27 32
L. W. Bartlett, stone	56 11
George S. Smith, stone	128 24
E. W. Butterfield, stone . . .	131 65
J. W. Terrill, stone	123 06
F. C. Campbell, stone	17 20
Charles P. Still, stone	32 53
J. H. Colburn, stone	163 94
F. B. Worthley, stone	97 87
C. Manseau, stone	24 63
M. E. Harvey, stone	69 58
J. W. Kimball, stone	71 23

Paid William G. Landry, stone	\$12 48
George Whitford, stone	52 72
George W. Bean, stone	13 52
E. Hoitt, stone	2 07
A. G. Fairbanks, stone	7 47
M. W. Spencer, stone	1 02
N. E. Fullerton, stone	5 21
C. N. Harvey, stone	1 01
James M. Nute, stone	37 01
S. M. Haselton, stone	2 29
J. T. Gott, stone	8 00
City Farm, stone	29 16
H. S. Hoitt, stone	4 39
City Farm, stone	19 28
W. H. Colburn, stone	4 69
H. A. Horton, stone	10 15
R. I. Stevens, stone	19 14
H. Willey, stone	1 15
L. J. Proctor, stone	27 01
George Whitford, stone	88
City Farm, stone	28 75
M. F. Dodge, stone	5 50
William G. Landry, stone	30 63
N. B. Abbott, stone	9 00
Amoskeag Manufacturing Co., stone	37 25
E. H. Currier, stone	13 23
H. A. Horton, stone	18 80
H. Willey, stone	6 60
E. Hoitt, stone	6 22
L. J. Proctor, stone	5 75
I. McDougall, stone	22 48
R. I. Stevens, stone	19 76
L. J. Proctor, stone	4 34

Paid G. S. Eastman, stone . . .	\$16 36
Joseph Bean, stone . . .	28 76
M. W. Spencer, stone . . .	1 02
W. J. Lawrence, stone . . .	6 93
W. G. Landry, stone . . .	6 13
Pius Brown, stone . . .	15 07
C. N. Harvey, stone . . .	4 76
James Cavanaugh, stone . . .	10 77
People's Gas-light Co., coke	20 00
C. H. Robie, concreting . . .	122 73
S. C. Forsaith Machine Co., rubber packing, etc.	9 33
C. H. Hutchinson, repairing engine and crusher, etc.	325 40
T. A. Lane, oil-cup, hose, etc.	14 47
J. B. Varick Co., hardware, etc.	214 50
Manchester Hardware Co., hardware, etc.	39 12
Killey & Wadleigh, hard- ware, etc.	30 57
Manchester Water - works, water	30 00
E. P. Johnson Co., coal	10 75
Farrell Foundry and Machine Co., castings	72 99
B. & M. R. R. Corp., freight	4 72
Concord R. R. Corp., freight	28 80
Head & Dowst, lumber	8 21
John W. Wilson, trucking	6 88
Amoskeag Manufacturing Co., stone	273 00
Providence Oil-works, oil	41 45
Burns & Poore, coal	38 75

Paid J. Stickney, leather belting, etc.	\$6 94	
Palmer & Garmon, stone chips	10 50	
Manchester Broom Co., re- pairing street-sweeper .	34 00	
Marden & Woodbury, stone chips	9 00	
J. Taylor & Son, kerosene oil, etc.	4 60	
Heath & Stevens, stonework	2 75	
T. L. Thorpe, cop waste .	12 60	
Whitford & Varnum, con- creting	34 90	
L. B. Bodwell & Co., wood .	12 00	
Labor of men and teams .	11,622 29	
	<hr/>	\$15,654 37

GRADING FOR CONCRETE.

		DR.
To appropriation	\$4,000 00	
Reserved fund	553 47	
	<hr/>	\$4,553 47
		CR.
Paid C. H. Robie, concreting .	\$108 70	
D. H. Varnum & Co., con- creting	2 00	
Labor of men and teams .	4,442 77	
	<hr/>	\$4,553 47

SEWERS AND DRAINS.

		DR.
To appropriation	\$20,000 00	
Pipe delivered commons	3 90	
Pipe delivered Valley Cemetery	53 10	
Sewer licenses	1,234 65	
P. S. Conway, sewer pipe	2 00	
E. P. Hull, old pipe	2 00	
Town of Londonderry, cesspool stone	7 00	
Reserved fund	8,345 81	
		\$29,648 46
		CR.
Paid Pike & Heald, scoops	\$3 50	
Thorpe & Bartlett, sewer pipe, etc.	2,323 83	
Henry Fisk, sewer pipe, etc.	2,925 03	
Pettee & Adams, cement	145 95	
J. Taylor & Son, oatmeal, oil, salt, etc.	44 00	
Merrill & Laird, labor on cesspools, etc.	109 69	
D. F. Cressey, blacksmithing	113 77	
Head & Dowst, lumber and brick	21 11	
A. J. Sawyer, lumber	444 17	
A. C. Wallace, lumber	81 92	
Pettee & Adams, cement, etc.	465 10	
Pettee & Adams drain pipe	605 57	
C. H. Hutchinson, castings, etc.	916 36	

Paid Thos. A. Lane, drain pipe, etc.	\$2,882 13
Concord Railroad Corpora- tion, freight	107 10
J. B. Varick Co., hardware, etc.	59 85
Manchester Hardware Co., hardware, etc.	52 65
Killey & Wadleigh, hard- ware, etc.	183 69
W. F. Head & Son, brick	731 50
F. S. Bodwell, cesspool stone	49 50
A. N. Clapp, oatmeal, kero- sene oil, spikes, etc.	18 61
J. Stickney, rubber boots, mittens, etc.	46 70
Geo. L. Robinson, rubber boots	16 25
Frank L. Downs	9 75
Geo. W. Ingalls & Co., rub- ber boots	6 00
Merrill & Freeman, cement	4 80
H. Fradd & Co., pork barrel	75
Warren Harvey, stone	110 00
Damase Roy, filing saws	90
Charles A. Bailey, cesspool stone	71 50
Thomas L. Thorpe, bags	4 80
Lacourse & Paris, oatmeal	50
O. D. Carpenter, drain pipe	3 26
M. L. Felch,	9 00
R. H. Howard & Co., oil coat	1 00

Paid Louis Wolf	\$9 74	
Labor of men and teams	17,068 48	
	<u> </u>	\$29,648 46

MAIN-STREET SEWER.

To appropriation	\$1,500 00	DR.
Reserved fund	5 73	
	<u> </u>	\$1,505 73

CR.

Paid A. N. Clapp, oatmeal, kero- sene oil, etc.	\$11 84	
D. F. Cressey, blacksmith- ing	56 58	
J. B. Varick Co., hardware, etc.	1 91	
Killey & Wadleigh, faucet, fuse, etc.	29 54	
Head & Dowst, brick	8 24	
A. C. Wallace, lumber	115 02	
Labor of men and teams	1,282 60	
	<u> </u>	\$1,505 73

BRIDGES.

To appropriation	\$8,000 00	
A. J. Peaslee, old plank sold	2 60	
	<u> </u>	\$8,002 60

CR.

Paid Manchester Hardware Co., hardware, etc.	\$30 41	
J. B. Varick Co., hardware, etc.	16 90	

Paid Killey & Wadleigh hardware, etc.	\$15 05	
Warren Harvey, stonework	1,737 50	
C. H. Robie, concreting	196 50	
J. B. Nourse, carpenter-work	38 87	
A. C. Wallace, lumber	1,144 13	
Head & Dowst, lumber	31 66	
A. J. Sawyer, lumber	93 92	
Charles. H. Bunton, blacksmithing	2 40	
George Holbrook, carpenter work	11 45	
Nourse & Briggs, carpenter-work	4 75	
Labor of men and teams	1,373 26	
Reserved fund	3,305 80	
	<hr/>	\$8,002 60

COMMONS.

To appropriation	\$3,000 00	DR.
Reserved fund	659 72	
	<hr/>	\$3,659 72

CR.

Paid Manchester Water-works, water	\$225 00
C. H. Robie, concreting	1,174 95
Head & Dowst, lumber	57
D. J. Murphy, plumbing, etc.	17 11
Thomas A. Lane, plumbing, etc.	11 69

Paid C. H. Hutchinson, repair- ing lawn-mower, etc.	\$55 62	
Killey & Wadleigh, hard- ware, etc.	2 81	
J. B. Varick Co., hardware, etc.	51 50	
Manchester Hardware Co., hardware, etc.	11 97	
Taylor & Flanders	16 10	
Marshall & Underhill, loam Leander Pope, blacksmith- ing	5 25	
George S. McLauthlin, urinal	1 70	
W. H. Vickery, repairing lawn-mower	350 00	
J. Hodge, lumber	9 25	
Merrill & Laird, mason- work	3 99	
Pike & Heald	8 24	
F. S. Worthen & Son, flowers	3 86	
H. H. Huntress, flowers	22 04	
Joel Daniels & Co., paint- ing, etc.	18 15	
J. J. Abbott, painting, etc.	21 61	
A. C. Wallace, lumber	32	
J. F. Conway, repairing lawn-mower	6 26	
D. E. Guiney, repairing urinal	5 00	
Labor of men and teams	1 50	
	1,635 23	
	<hr/>	\$3,659 72

INCIDENTAL EXPENSES.

DR.

To appropriation	\$15,000 00	
C. W. Davis, old measures sold	86	
H. B. Fairbanks, land sold	100 00	
Coal delivered Pine Grove Cemetery	29 74	
Coal delivered police depart- ment	38 69	
Coal delivered City Hall	53 95	
Coal delivered fuel	101 50	
Reserved fund	6,058 40	
	<hr/>	\$21,383 14

CR.

Paid Frederick Smyth, equity	\$257 00	
Lucy S. Craggy, damage to team	10 00	
Walter Cody, damage to horse, etc.	50 00	
Lewis Warren, damage to sleigh, etc.	1 20	
Elvira H. Jillson, damage to person	1,250 00	
Samuel J. Hayes, damage to team	15 00	
James A. Neal, judgment	140 00	
Annie A. Welch, damage to person	75 00	
Samuel Burchill, damage to person	200 00	
Isabella McNay, damage to person	100 00	

Paid Simon Clark, administrator of estate of William Clark	\$5,006 72
Jessie Quigley, damage to person	1,118 51
Charles E. Stearns, damage to sleigh	18 00
Margaret Falvey, damage to person	50 00
Nellie Brodie, damage to person	100 00
J. B. Chagnon, damage to team	15 00
N. H. Wilson, professional services	75
David Cross, professional services	343 00
E. F. Jones	3 50
Amos B. Page, witness fees, etc.	6 00
Dr. L. French, returns of births and deaths	12 75
J. M. Collity, returns of births and deaths	7 50
J. M. Collity, professional services	110 00
Luther Pattee, professional services	5 00
Luther Pattee, returns of births and deaths	5 75
W. W. Wilkins, profes- sional services	31 00
Geo. D. Towne, returns of births and deaths	4 50
William Holland, returns of births and deaths	75

Paid Charles Corey, returns of births and deaths . . .	\$0 50
L. B. How, returns of birth and deaths . . .	5 25
C. H. Fessenden, returns of births and deaths . . .	3 25
J. W. D. MacDonald, re- turns of births and deaths	28 00
C. E. Dodge, returns of births and deaths . . .	3 75
J. E. A. Lanouette, returns of births and deaths . . .	35 75
O. D. Abbott, returns of births and deaths . . .	8 75
J. A. Jackson, returns of births and deaths . . .	17 00
C. B. Sturtevant, returns of births and deaths . . .	3 00
Jacob W. Mooar, returns of births and deaths . . .	2 25
J. P. Walker, returns of births and deaths . . .	2 50
H. C. Canney, returns of births and deaths . . .	2 25
C. F. Flanders, returns of births and deaths . . .	6 75
Geo. A. Campbell, returns of births and deaths . . .	5 75
Daniel S. Adams, returns of births and deaths . . .	3 25
A. E. Cote, returns of births and deaths . . .	14 25
J. Sullivan, returns of births and deaths . . .	23 25

Paid A. Gladu, returns of births and deaths	\$7 50
C. M. Dodge, returns of births and deaths	3 00
E. B. Dunbar, returns of births and deaths	1 00
H. C. Canney, professional services	6 00
J. Sullivan, professional ser- vices	115 00
E. Mongeon, returns of births and deaths	3 25
John Ferguson, returns of births and deaths	23 75
W. W. Wilkins, profes- sional services	5 00
L. M. French, returns of births and deaths	12 75
L. B. How, professional ser- vices	5 00
Republican Press Associa- tion, advertising non-resi- dent taxes	4 80
“Manchester Weekly Bud- get,” printing	6 00
Daily Press Publishing Co., printing	24 00
Union Publishing Co., print- ing	82 25
John B. Clarke, printing	416 26
Temple & Farrington Co., tax-books, etc.	171 29
Manchester P o s t-o f f i c e, stamps	6 08

Paid S. C. Forsaith Machine Co., ironwork	\$0 60
D. J. Murphy, plumbing, etc.	2 80
J. F. Larkin, plumbing, etc.	31 52
D. G. Guiney, plumbing, etc.	104 71
Thos. A. Lane, repairing fountains, etc.	98 94
Pike & Heald, repairing fountains, etc.	21 70
James Bros., teams	103 50
Smith & Whitten, teams	19 50
J. C. Nichols & Son, teams	83 50
J. N. Foss, teams	75 00
W. J. Freeman, teams	41 00
E. T. James, teams	19 00
Geo. W. Reed, teams	20 00
E. A. Kean, teams	5 00
E. V. Turcotte, teams	5 00
J. A. Caverly, teams	75
John Hosley, allowance for horse-hire	132 00
J. A. Barker, care of city library boiler	127 00
Warren Harvey, watering- troughs	150 00
Warren Harvey, making estimates and attendance at court	25 00
G. H. Dudley, carpenter- work	5 55
L. M. Aldrich, carpenter- work	52 10

Paid J. Hodge, lumber, etc.	\$15 66
Head & Dowst, lumber, tower clock, etc.	810 61
Miles & Sturtevant, build- ing addition to Lincoln- street schoolhouse	500 00
Charles H. Bartlett, work on sewerage plan	165 00
W. H. Bennett, work on sewerage plan	354 50
E. T. Doherty, work on sewerage plan	8 75
Manchester Water-works, water	798 57
C. H. Wood, painting	3 00
Committee on Police Tele- graph, expenses to Lynn, Mass.	15 00
C. H. Hodgman & Co., dam- age to buggy, etc.	12 10
Western Union Telegraph Co., telegrams	3 96
J. M. Greaney, paper, en- velopes, etc.	57
Straw & Lovejoy, repairing clocks	168 25
D. C. Whittemore, to allow- ance for keeping roads in repair two years	40 00
Committee on Police Tele- graph, expenses to Wor- cester, Mass.	26 60
H. F. Thompson, repairing sleigh	2 80

Paid Edwin Rogers, bell-striking machine	\$450 00
Committee on Lands and Buildings, expenses to Boston, Mass.	6 00
J. J. Abbott, painting	7 00
Committee on Electric Lighting, expenses to Boston, Lynn, and Port- land	97 56
H. D. Gordon	7 15
Committee on Fire Depart- ment, expenses to Boston, Mass.	24 50
Committee on Police Tele- graph, expenses to Bos- ton, Mass.	23 00
Dana W. King, recording deeds	4 71
L. B. Bodwell & Co., coal and wood	8 25
Committee on Lands and Buildings, expenses to Lawrence, Boston, and Chelsea, Mass.	29 20
H. D. Gordon, chairs	24 50
N. P. Kidder, making city report	150 00
N. P. Kidder, making returns of births, marriages, and deaths	409 95
H. B. Fairbanks, advertising and selling land	25 00
Brown & Howie, blacksmith- ing, etc.	14 50

Paid Committee on Lands and Buildings, expenses to Boston, Mass.	\$12 00
George E. Morrill, postage-stamps	3 18
J. G. Hutchinson, witness fees, etc.	33 29
Committee on Police Telegraph, expenses to Boston, Mass.	13 00
H. D. Gordon, reseating chairs	4 35
C. H. Reed, expenses City <i>vs.</i> Quigley	7 00
Fairbanks, Brown & Co., copper measures	6 00
W. L. & E. Gourley, surveyor's level	115 00
J. Blakely, professional services	25 00
W. H. Vickery, sealing weights and measures	4 20
Committee on Fire Department, expenses to Lowell, Mass.	11 00
L. A. Proctor, shade trees and loam	135 40
A. H. Lowell, hitching-posts	8 00
A. H. Lowell, ironwork, etc.	24 50
Nellie Emerson, copying specifications for police telegraph	2 00
Committee on Public Instruction, expenses to Boston, Mass.	11 25

Paid Lafayette Guards, armory rent	\$100 00
Joseph A. Brown, stonework	323 51
L. B. Bodwell & Co., wood	1 00
Pettee & Adams, rock salt and lime	3 90
C. H. Robie, concreting .	176 85
E. Haskell, carpenter-work	1 84
Chickering & Sons, piano .	600 00
F. W. Elliott, entertaining Lowell city government .	57 60
J. J. Abbott, painting .	2 50
H. D. Gordon, lounge .	11 00
First Regiment Band, ar- mory rent	100 00
C. P. Buckman, ink . . .	1 00
John Bryson, Jr., painting	20 39
John W. Wilson, trucking	7 00
Thomas Clancy, error in taxation, 1887	2 21
First Light Battery, national salute July 4, 1888 . . .	37 00
A. D. Gooden, watering- trough	3 00
Mary J. Phillips, over-pay- ment of tax, voluntary list, 1887	10 10
George E. Morrill, distribut- ing tax-bills	54 76
Fred E. Flanders, error in taxation, 1887	1 93
The Lyon Platinum Co., pens	3 00
J. K. Rhodes	20 00

Paid Novelty Advertising Co., seal press	\$4 00
A. D. & C. L. Gooden, land on East Spruce street	575 00
Edward M. Slayton, error in taxes 1886 and 1887	4 98
M. Klempke	1 00
E. P. Johnson Co., coal	251 81
H. C. Dickey, whitewashing tree-boxes	3 30
Jones Express Co., sawdust	2 00
J. Blakely, professional ser- vices	30 00
Marden & Woodbury, reset- ting watering-trough	3 50
Ephraim K. Rowell, water- ing-trough	3 00
Charles E. Cochran, profes- sional services	40 00
Flint & Little, carpenter- work	3 18
S. B. Putnam, auditing ac- count of collector	25 00
W. W. Hubbard	75
Mrs. N. P. Kidder, copying Derryfield town records	71 80
Northern Express Co., ex- pressage	15
W. A. Greenough & Co.	5 00
A. T. Coté, returns of births and deaths	14 00
J. M. Collity, returns of births and deaths	5 50
W. W. Wilkins, professional services	3 00

Paid A. Gladu, returns of births and deaths	\$10 50
J. Ferguson, returns of births and deaths	27 00
George Holbrook, lumber and labor	7 50
Nourse & Briggs, lumber and labor	1 90
Thomas A. Lane, plumbing, etc.	4 07
W. H. Bennett, labor on sewerage plan	154 60
J. N. Foss, teams	8 00
Guy F. Whitten, teams	6 00
Smith Whitten, teams	1 00
C. H. Simpson, teams	4 00
E. T. James, teams	8 00
James Brothers, teams	5 00
Ernest W. Bowditch, sewer- age plan	600 00
People's Gas-light Co., gas Manchester Water - works, water	7 00 266 19
Sulloy & Topliff, profes- sional services	612 51
Novelty Advertising Co.	1 75
S. B. Putnam, expenses to Concord, N. H.	72
William M. Butterfield, profes- sional services	15 00
William L. Foster, profes- sional services in Knibbs valve suits	343 48
G. H. Wheeler	2 00

Paid Edson S. Heath, making return of votes	\$1 00	
Wadsworth, Howland & Co.	20 00	
J. M. Greaney, stationery	85	
Lovejoy & Stratton, repair- ing clocks	284 50	
Pike & Heald, plumbing, etc.	12 57	
C. P. Trickey, blank-books	24	
J. G. Hutchinson, witness fees	3 48	
O. D. Carpenter, witness fees	2 50	
S. H. Mead, witness fees	2 50	
James Briggs	16 83	
George W. Nutter, returns of births and deaths	14 00	
Temple & Farrington Co., blank-books, etc.	16 00	
Labor of men and teams	521 25	
	<hr/>	\$21,383 14

PINE GROVE CEMETERY.

		DR.
To B. A. Stearns, superintendent	\$1,635 15	
S. B. Putnam, lots sold	2,666 40	
Balance from old account	2,819 24	
Appropriation	1,000 00	
	<hr/>	\$8,120 79

		CR.
Paid J. B. Varick Co., hardware, phosphate, etc.	\$74 16	
New England Telegraph and Telephone Co., use of tel- ephone	53 25	

Paid Manchester Water - works, water	\$300 00
Thomas A. Lane, piping, etc.	122 93
J. Hodge, grade stakes	21 60
L. M. Aldrich, balance on house	146 82
Head & Dowst, carpenter- work, etc.	5 38
J. C. Nichols & Son, teams	13 00
Union Publishing Co., print- ing	8 75
C. H. Bunton, blacksmithing	9 80
H. D. Gordon, table, mirror, etc.	16 00
P. O. Woodman, loam	18 40
Waterman Smith, turf	13 31
C. C. Webster, turf	3 15
M. Prout, loam	90 50
Frank Emerson, turf	7 62
Gilman L. Moore, turf and loam	4 50
Mrs. Henriette Schlough, loam	5 10
Robert Leggett, loam	41 60
Samuel N. Worthley, loam	18 80
Stephen Brown, loam	15 00
F. N. McLaren, collar, repair- ing harness	3 75
N. J. Whalen, repairing coffin straps	90
Incidental expenses, coal	29 74
A. J. Lane, cans	1 00
H. H. Huse, clerk of sub-trus- tees, making report, etc.	25 00
Manchester Post-office, en- velopes	2 16

Paid H. H. Huntress, flowers, etc.	\$36 40	
J. Stickney, oil suits	6 00	
Timothy Shea, cleaning vaults	3 00	
Heath & Stevens, stonework	9 00	
Novelty Advertising Co., printing, etc.	1 50	
Labor of men and teams	3,479 46	
By balance on hand	3,533 21	
	<hr/>	\$8,120 79

VALLEY CEMETERY.

		DR.
To appropriation	\$1,500 00	
C. H. G. Foss, superintendent	1,400 00	
	<hr/>	\$2,900 00
		CR.
Paid Manchester Hardware Co., grass seed, hardware, etc.	\$14 30	
J. B. Varick Co., grass seed, hardware, etc.	32 27	
N. E. Fullerton, loam and stone	4 00	
J. W. Kimball, loam and stone, etc.	78 50	
L. M. Aldrich, carpenter- work, etc.	70 04	
A. C. Wallace, lumber	39 50	
J. Hodge, lumber, etc.	7 40	
George Whitford, filling	39 20	
Marshall & Underhill, loam and sand	20 88	
J. A. Caverly, manure	3 00	
C. C. Webster, turf	8 25	

Paid C. Manseau, loam	\$1 50
Gilman L. Moore, loam	1 00
P. O. Woodman, loam	3 60
M. Harrington, manure	6 00
F. S. Bodwell, stone	42 00
William B. Abbott, painting	54 35
J. J. Abbott, painting	10 35
Manchester Water-works, water	133 80
Campbell & Williams, printing	4 25
W. H. Vickery, repairing lawn-mower, etc.	2 95
C. H. Hutchinson, ironwork	1 11
T. A. Lane, piping, etc.	49 89
Palmer & Garmon, setting head-stones, etc.	7 00
Pettee & Adams, cement	3 10
Temple & Farrington Co., record-book, etc.	12 44
Hiram H. Gurney, nursery stock	24 75
J. Francis, flowers	28 62
H. H. Huntress, flowers	7 00
F. S. Worthen & Son, flowers	17 85
Pike & Heald, plumbing, etc.	29 37
O. D. Carpenter, mason- work	8 20
Thomas A. Lane, piping, etc.	39 86
G. W. Dodge, rubber boots	3 00

Paid Heath & Stevens, setting slabs, etc.	\$7 80	
J. F. Woodbury & Co., blacksmithing.	75	
J. Hodge, lumber	1 30	
John Gannon, Jr., fresco- ing building	99 55	
Taylor & Flanders	3 75	
Higgins Brothers Co., mirror	10 00	
B. W. Robinson, mason- work	5 00	
D. O. Furnald, furniture and fixtures	15 00	
George W. Rogers, canvas	6 16	
The Seventeen Associates, filling	130 91	
Labor of men and teams	1,791 62	
By balance on hand	18 83	
	<hr/>	\$2,900 00

AMOSKEAG CEMETERY.

To reserved fund	\$205 87	DR.
	<hr/>	\$205 87
Paid Manchester Water-works, water	\$12 00	CR.
S. L. Flanders, posts	12 12	
A. J. Sawyer, pickets, etc.	30 45	
Killey & Wadleigh, hard- ware, etc.	3 43	
J. J. Abbott, painting fence	48 50	
Labor of men	99 37	
	<hr/>	\$205 87

RECEIVING-TOMB, VALLEY CEMETERY.

DR.

To appropriation	\$4,000 00	
Reserved fund	240 80	
	<hr/>	\$4,240 80

CR.

Paid Killey & Wadleigh, hardware, etc.	\$1 86
J. B. Varick Co., hardware, etc.	7 15
Pettee & Adams, cement	197 80
J. W. Kimball, excavating, etc.	160 50
Warren Harvey, chestnut posts	6 00
J. Hodge, lumber	12 27
Head & Dowst, lumber and brick	210 40
E. J. Williams & Son, asphalt roofing, etc.	51 10
C. H. Robie, concreting	150 82
White Mountain Freezer Co., galvanizing castings, etc.	3 46
B. W. Robinson, mason-work	140 62
Martin Fitzgerald, stonework	1,080 00
F. S. Bodwell, stonework	1,338 24
Lowell's Iron Foundry, iron-work	409 41
Samuel Cooper, professional services	22 50

Paid Union Publishing Co., advertising proposals . . .	\$6 25	
C. W. Quimby, expenses to Concord	1 00	
D. O. Furnald	5 12	
Pike & Heald	26 90	
L. M. Aldrich, lumber, etc.	30 86	
George C. Gilmore	120 50	
Labor of men and teams	258 04	
	<hr/>	\$4,240 80

FIRE DEPARTMENT.

		DR.
To appropriation	\$40,000 00	
Labor in Districts Nos. 2 and 10	4,410 32	
J. F. Woodbury, old hose	16 70	
	<hr/>	\$44,427 02

		CR.
Paid, Chemical Engine Co., pay-roll	\$435 00	
General Stark Engine Co., pay-roll	993 36	
Merrimack Engine Co., pay-roll	1,461 06	
N. S. Bean Engine Co., pay-roll	1,485 00	
Fire King Engine Co., pay-roll	1,485 00	
Amoskeag Engine Co., pay-roll	1,485 00	
Pennacook Hose Co., pay-roll	1,606 20	

Paid Massabesic Hose Co., pay- roll	\$1,245 00
Excelsior Hook-and-Ladder Co., pay-roll	2,289 18
Thomas W. Lane, chief en- gineer	1,000 00
Fred S. Bean, assistant en- gineer and clerk	150 00
Clarence D. Palmer, assist- ant engineer	125 00
Eugene S. Whitney, assist- ant engineer	125 00
Ruel G. Manning, assistant engineer	125 00
Thos. W. Lane, telegrams, expressage, etc.	16 50
Pettee & Adams, hay, grain and straw	275 75
H. Fradd & Co., grain, etc.	301 03
Merrill Bros., grain, etc. . .	524 34
Merrill & Freeman, grain, etc.	303 56
Drake & Dodge, grain, etc.	248 92
Partridge Bros., grain, etc.	413 93
John Hayes & Co., grain . . .	16 00
H. A. Horton, carrots	25 50
City Farm, hay	208 30
Albe Morrill, hay,	36 10
Israel Dow, hay	237 63
Charles D. Welch, hay	131 90
Charles M. Wheeler, carrots . .	1 30
L. N. George, straw	28 80
Robert Neal, straw	15 56
Wm. W. Moore, hay	61 47

Paid J. L. Woodman	\$31 95
J. Q. Perley, hay	67 25
Thos. A. Lane, hose, piping, etc.	109 84
Joseph O. Tremblay, black- smithing	86 75
D. F. Cressey, blacksmith- ing	54 57
J. F. Woodbury & Co., blacksmithing	244 57
Brown & Howie, black- smithing	1 75
James Morrison, black- smithing	4 75
Pike & Heald, lanterns, iron- work, etc.	61 17
C. H. Hutchinson, iron- work, etc.	41 86
J. B. McCrillis & Son, re- pairing carts, etc. . . .	538 14
Sanborn Carriage Co., re- pairing carts	12 30
J. B. Varick Co., hardware, etc.	1 50
Head & Dowst, lumber and labor	265 77
J. B. Nourse, lumber and labor	12 05
J. Hodge, lumber	1 05
New England Telephone & Telegraph Co., telephones	121 68
F. N. McLaren, repairing harness, etc.	18 93
Cavanaugh Bros., harness repaired and harness, etc.	156 09

Paid J. G. Lake, repairing harness, etc.	\$41 30
H. C. Ranno, harness, etc.	345 83
Thos. P. Riley, repairing harness, etc.	35 40
J. W. Wilson, trucking	4 60
Wilson & Hardy, trucking	2 85
H. D. Gordon, chairs, comforters, etc.	34 00
Manchester Locomotive Works, rubber valves, etc.	54 80
Electric Gas-light Co., automatic burners, etc.	38 75
Boston Woven Hose Co., hose, etc.	158 80
Scollay & Rich, metal polish	18 00
Thos. L. Thorpe, cop waste	16 30
Chemical Polish Co., polish	10 00
Welch & Hall, horses	600 00
J. A. and W. Bird & Co., bicarbonate of soda	35 59
Snelling & Woods, horse medicine, etc.	35 87
Mary Fish, washing	13 89
Mrs. C. C. Tinkham, washing	15 52
James Kerwin, laundry work	10 73
Annie F. O'Dowd, washing	2 00
Boston & Maine Railroad, freight	4 70
Concord Railroad, freight	8 49
J. B. Clarke, printing	57 50
Temple & Farrington Co., shade, fixture, etc.	6 27

Paid Cumner & Co., reefers	\$52 50
Plumer & Holton, reefers, etc.	129 50
Weston & Hill, matting, etc.	62 21
J. R. Carr & Co., aprons for steamers	15 00
E. P. Johnson Co., coal	664 39
L. B. Bodwell, coal and wood	363 25
Manchester Water-works, water	939 86
J. Taylor & Son, oil, pear- line, etc.	19 04
S. L. Flanders. oil, wood, etc.	5 85
H. H. Burpee, oil, matches, etc.	2 84
Geo. C. Lord, oil, matches, etc.	32
Carswell & Brown, matches	48
Stephen Gardner, care of boiler	210 75
General Stark Engine Co., services July 4, 1888	8 00
Amoskeag Engine Co., ser- vices July 4, 1888	8 00
Fire King Engine Co., ser- vices July 4, 1888	8 00
N. S. Bean Engine Co., ser- vices July 4, 1888	8 00
Merrimack Engine Co., ser- vices July 4, 1888	8 00
Pennacook Hose Co., ser- vices July 4, 1888	8 00

Paid Massabesic Hose Co., ser- vices July 4, 1888	\$8 00
Excelsior Hook-and-Ladder Co., services July 4, 1888	8 00
City Farm, hay	32 40
Geo. W. Seaward	2 00
J. Alexander, veterinary surgeon	42 06
W. F. Robie, veterinary surgeon	69 00
J. Blakely, veterinary sur- geon	298 50
Killey & Wadleigh, hard- ware, etc.	14 59
Manchester Hardware Co., lantern, hardware, etc.	165 94
J. B. Varick Co., hardware, etc.	20 28
People's Gas-light Co., gas, Thomas F. Dodge, engineer Steamer No. 2	507 08
F. A. Pherson, engineer Chemical Co.	660 00
Jeremiah Lane, driver	464 03
M. W. Ford, Jr., driver	421 67
Geo. H. Wheeler, driver	591 25
A. W. Whitcomb, driver	532 67
W. F. Wheeler, driver	660 00
C. M. Denyou, driver	660 00
Jeremiah Burke, driver	55 25
A. E. Foster, driver	590 00
Walter L. Blenus, driver	660 00
Charles H. Rogers, driver	653 00
Benj. M. Lay, driver	417 66

Paid Frank J. Dustin, driver . . .	\$653 00
Walter Seaward, driver . . .	590 00
Geo. E. Varnum, driver . . .	636 50
Jesse W. Truell, driver . . .	93 25
A. G. Barker, driver . . .	8 25
Sylvester Reed, driver . . .	214 50
Parker R. Brown, driver . . .	21 00
Geo. H. Chapman, driver . . .	24 00
Stephen Thomas, driver . . .	62 25
Edwin Rogers, wire connectors, etc.	8 50
D. B. Varney, castings, etc.	47 25
Charles E. Berry, rein snaps, etc.	15 00
D. Foley, sawing wood	1 25
Mrs. Mary Cressey, carrots	6 51
Dennis Kerwin, soap	4 50
Joseph E. Power, badges	92 50
A. S. Jackson, hose-brushes	12 50
Manchester Broom Co., brooms	2 35
D. A. Simons, cuspidores	6 00
L. W. Tenney, labor on Tapper circuit, etc.	7 10
J. A. Tremblay, blacksmithing	22 00
Palmer & Garmon, marble shelf	3 50
Lawrence W. Clark, fire extinguisher	27 50
J. T. Beach, cart, etc.	164 35
George Dunnington, Salem horse collar	12 00
Michael Kilboy	50

Paid N. H. Belting & Packing Co., jacket cable	\$32 50
J. H. Boyd, use of horse	12 00
J. B. Jones, vise, etc.	4 50
Thomas F. Brown, labor	12 00
A. W. Baker, horse dentistry	30 00
George M. Jones, labor	18 25
L. & W. T. Serberlich, oil- ing floor	4 00
Merrimack Chemical Co., oil of vitriol	13 54
C. A. Trefethen, repairing clock	1 00
A. M. Finney, cleaning car- pets, etc.	5 93
C. M. Bailey, sacking	5 15
Eureka Fire Hose Co., hose	1,265 00
F. F. Shaw, repairing clock	1 00
H. Crosby	1 50
J. L. Woodman, hay	31 95
W. L. Blenus, bolts, etc.	13 60
T. W. Lane, Jr., driver	19 50
Mrs. W. L. Blenus, washing	5 00
Rhode Island Coupling Co., couplings, etc.	18 00
J. B. Clarke, printing	8 40
E. J. Williams & Son, roofing	15 00
William Lane	12 75
Flint & Little, carpenter- work	45
Nourse & Briggs, carpenter- work	1 90
Thomas Hickey, blacksmith- ing	7 00

Paid George C. Lord, matches, etc.	\$0 27	
J. A. Brown	9 00	
Samuel Eastman & Co.	6 50	
Mrs. J. P. Hulme, washing	6 00	
Labor of extra teamsters	573 91	
Reserved fund	8,608 44	
	<hr/>	\$44,427 02

FIRE-ALARM TELEGRAPH.

		DR.
To appropriation	\$1,500 00	
	<hr/>	\$1,500 00
		CR.
Paid L. W. Tenney, gong, wire, etc.	\$56 01	
Henry McQuade, labor	3 38	
A. D. Smith, sulphate of copper, etc.	153 81	
James Brothers, teams	4 00	
Wilson & Hardy, trucking	3 77	
C. H. Hodgman & Co., trucking, etc.	5 10	
D. B. Varney, zincs, etc.	320 90	
Edwin Rogers, battery jars, wire, etc.	116 81	
Boston & Maine Railroad, freight	67	
Concord Railroad, freight	7 39	
American Electrical Works, wire	22 62	
J. H. Bunnell & Co., bells, wire, etc.	26 47	
Electric Gas-lighting Co.	18 14	

Paid Thomas W. Lane, expressage, postage, etc.	\$12 40
Pike & Heald, soldering wires	25
James R. Carr, lettering fire- alarm boxes	22 50
C. H. Hutchinson, repairing striker	1 20
J. H. Bunnell & Co., testing- set, jars, etc.	61 50
Washburn & Moen Manufac- turing Co., wire	40 79
Beattie Electrical Co., zincs, etc.	4 20
A. C. Wallace, telegraph pole	2 00
Cutler Bros. Co., blue vitriol	17 90
W. H. Vickery, repairing gouge	60
Geo. E. Davis, labor on tickers	6 00
J. Hodge, lumber and labor	72
J. H. Seaward, lumber and labor	7 30
Mason, Chapin & Co.	83 55
L. M. Aldrich, lumber and labor	3 75
Reserved fund	496 27
	<hr/> \$1,500 00

HYDRANT SERVICE.

DR.

To appropriation	\$21,000 00
· Reserved fund	100 00
	<hr/> \$21,100 00

	CR.
Paid Manchester Water - works, water	\$21,100 00
	<u> </u> \$21,100 00

FIRE DEPARTMENT INDIVIDUAL ALARM.

	DR.
To appropriation	\$750 00
	<u> </u> \$750 00
	CR.
Paid Tenney & Landon, balance of contract	\$590 00
Tenney & Landon, labor and material	85 32
L. W. Tenney, labor	38 30
T. W. Lane, repairing Tapper circuit, etc.	2 50
By balance on hand	33 88
	<u> </u> \$750 00

WEBSTER-STREET ENGINE-HOUSE.

	DR.
To appropriation	\$4,000 00
Reserved fund	285 16
	<u> </u> \$4,285 16
	CR.
Paid W. M. Butterfield, architect	\$35 00
W. M. Butterfield, architect	11 67
W. Ireland, contractor	3,292 00
Head & Dowst, lumber and labor	329 78

Paid Pike & Heald, plumbing, etc.	\$6 10	
D. E. Guiney, plumbing, etc.	94 65	
Charles H. Robie, concreting	373 54	
J. Bryson, Jr., painting .	31 95	
A. H. Lowell, ironwork, etc.	6 69	
Temple & Farrington Co., shades, fixtures, etc. . . .	103 78	
	<hr/>	\$4,285 16

FURNITURE AND EQUIPMENT OF WEBSTER-
STREET ENGINE-HOUSE.

To appropriation	\$10,000 00	
	<hr/>	\$10,000 00

CR.

Paid Cumner & Co., reefers and overalls	\$143 50
Manchester Hardware Co., hardware, etc.	127 65
Killey & Wadleigh, hard- ware, etc.	6 73
Thomas A. Lane, slide poles, etc.	74 65
Pike & Heald, fender, etc.	9 04
C. H. Hutchinson, ironwork, etc.	24 30
Lowell's Iron Foundry, iron- work, etc.	29 32
Head & Dowst, sash weights, pulleys, etc.	20 07
Thomas P. Riley, harness, etc.	65 85
H. C. Ranno, harness, etc.	256 45

Paid Eureka Fire Hose Co., hose, etc.	\$1,295 00	
J. T. Beach, carts, etc.	281 35	
Boston Woven Hose Co., spanners, etc.	34 50	
Charles E. Berry, hames and collars	78 00	
J. Brodie Smith, automatic gas-lighting apparatus, etc.	193 61	
Edwin Rogers, fire alarm indicator	125 00	
Cavanaugh Brothers, har- ness, etc.	133 30	
C. H. Hanson & Co., horses	650 00	
Manchester Locomotive Works, steam fire engine	3,657 00	
D. A. Simons, cuspidores	25 58	
Galen M. Bowditch, hose carriage, etc.	1,000 00	
J. B. McCrillis & Son, snow plow, etc.	100 00	
Reserved fund	1,669 10	
	<hr/>	\$10,000 00

LAKE-AVENUE ENGINE-HOUSE.

		DR.
To appropriation	\$9,000 00	
Reserved fund	2,500 52	
	<hr/>	\$11,500 52

		CR.
Paid J. M. Kendall, plans	\$100 00	
Charles H. Bickford, copy- ing plans, etc.	18 50	
H. M. Young, copying plans, etc.	14 00	
Nellie Emerson, copying specifications, etc.	4 00	
E. R. Coburn & Co., tracing cloth, etc.	18 43	
Goodwin & McIver, moving house and cottage	210 12	
John B. Clarke, advertising	24 75	
Daily Press Co., advertising	13 50	
George Holbrook, lumber and labor	15 65	
W. Ireland, contractor	11,005 23	
J. B. Varick Co., hardware, etc.	76 34	
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> \$11,500 52	

POLICE DEPARTMENT.

		DR.
To appropriation	\$28,500 00	
J. C. Bickford, costs and fees	2,032 75	
M. J. Jenkins, costs and fines	5,413 43	
Western Union Telegraph Co. (overdraft)	1 49	
New England Telephone and Telegraph Company (over- draft)	11 20	
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> \$35,958 87	

Paid N. P. Hunt, judge . . .	\$1,500 00
J. C. Bickford, clerk . . .	600 00
M. J. Jenkins, city marshal	641 25
H. W. Longa, assistant marshal	700 00
H. W. Longa, conveying prisoner, witness fees, etc.	600 86
A. R. Simmons, professional services	3 00
C. A. Sulloway, professional services	2 00
George W. Prescott, professional services	3 00
Isaac L. Heath, special justice	46 00
Isaac L. Heath, professional services	13 00
People's Gas-light Co., gas	440 02
New England Telephone and Telegraph Co., telephones	128 90
Ada Franker, washing sheets, towels, etc.	48 00
Frances Franker, washing sheets, towels, etc.	22 00
W. W. Owen, laundering blankets, etc.	21 82
Delia Recore, scrubbing	8 75
Manchester Hardware Co., brushes, wrench, etc.	4 97
J. B. Varick Co., brushes, oil, etc.	35 25
C. H. Hutchinson, labor on boiler, etc.	2 26

Paid W. H. Vickery, repairing locks, etc.	\$4 80
Killey & Wadleigh, feather duster	2 00
J. F. Woodbury & Co., hooks	1 25
C. M. Bailey, tissue paper .	11 65
D. E. Guiney, repairing water-closets, etc.	12 25
J. B. Clarke, printing .	142 80
Campbell & Williams, print- ing	58 00
Daily Press Publishing Co., advertising toy pistols, printing, etc.	36 25
T. W. Lane, toilet paper, stationery, etc.	33 20
Temple & Farrington Co., "Justice and Sheriff," glass, etc.	8 54
Incidental expenses, coal .	38 69
L. B. Bodwell & Co., coal, wood, and ice	154 68
E. P. Johnson Co., coal and wood	355 15
Henry Gorman, ivory, etc. etc.	48 10
Carl E. York, crackers, brushes, etc.	5 79
Western Union Telegraph Co., telegrams	20 36
Eben T. James, teams .	265 25
James Bros., teams	7 25
J. N. Foss, teams	14 50

Paid Smith & Whitten, teams	\$3 00
Daniel Davis, meals for prisoners	323 00
Manchester Water - works, water	154 05
C. H. Reed, expenses to Boston, Lynn, Derry, etc.	23 17
W. D. Ladd & Co., crackers, etc.	8 70
H. D. Gordon, furniture, etc.	152 65
H. A. Winship, belts and clubs	118 13
Charles Gould, disinfectant	3 00
Isaac S. Coffin, mop cloth, dippers, etc.	3 70
D. Evans & Co., buttons	75 00
J. P. Lovell Arms Co.	12 83
Weston & Hill, cleaning and laying carpet	2 00
J. H. McKelvey, criminal records	10 00
C. A. Twitchell & Co., badges	8 00
J. G. Lake, belt	1 00
J. B. Sanborn, "Session Laws," etc.	15 00
Charles H. Bunton, forks, staples, etc.	6 25
C. M. Bailey, tissue paper	10 00
R. D. Gay	6 23
J. Sullivan, professional services	30 00
James Briggs, repairing stove	2 00

Paid Dr. L. M. French, profes- sional services	\$3 00	
J. J. Holland & Co., drugs, etc.	29 65	
J. C. Nichols, team	2 00	
I. L. Heath, professional services	28 00	
C. F. Sprague	10 35	
L. M. Aldrich, carpenter- work	20 89	
Dr. H. C. Canney, profes- sional services	6 00	
Reserved fund	2,281 29	
Pay-roll of officers	23,612 10	
By balance on hand	2,956 29	
	<u> </u>	\$35,958 87

CITY HALL.

		DR.
To A. J. Lane	\$20 00	
Rents	2,439 00	
Reserved fund	1,441 91	
	<u> </u>	\$3,900 91
		CR.
Paid People's Gas-light Co., gas .	\$347 84	
N. E. T. & T. Co., tele- phones	76 76	
Mary Fish, scrubbing	96 25	
J. B. Varick Co., wheelbar- row, hardware, etc.	18 55	
Manchester Hardware Co., hardware, etc.	1 56	

Paid Manchester Water - works, water	\$168 75
H. D. Gordon, table, repair- ing settees, etc.	38 25
W. H. Vickery, repairing locks, etc.	2 75
J. J. Abbott, painting	64 80
D. E. Guiney, piping, plumbing, etc.	107 00
J. A. Barker, extra services	12 00
Tristram Dame, labor	75
John White, cleaning hall	1 95
H. K. Rhodes, cleaning hall	75
Incidental expenses, coal	53 95
E. P. Johnson Co., coal	346 66
L. B. Bodwell & Co., ice and wood	9 58
T. A. Lane, piping, plumb- ing, etc.	30 74
Pike & Heald, smoke-pipe, etc.	57 11
Weston & Hill, matting, etc.	40 40
A. M. Eastman, matches, etc.	82
Head & Dowst, lumber and labor	494 64
George Holbrook, lumber and labor	8 65
L. M. Aldrich, lumber and labor	93
Head & Dowst, urinal build- ing, etc.	1,725 00
O. D. Carpenter, plastering	1 00
Charles H. Robie, concret- ing	25 85

Paid Lovejoy & Stratton, clock	\$25 00	
Barton & Co., rug	10 00	
D. A. Simons, water pitcher, cuspidores, etc.	5 50	
J. J. Holland & Co., soap, etc.	1 25	
Boston & Maine Railroad Corp., freight	3 90	
Charles S. Putnam, repair- ing clock	2 00	
Mrs. M. P. Barker, making awnings	24 00	
Carpenter & Co., brooms	2 25	
John Knapp, repairing chair	1 50	
Merrill & Laird, whitewash- ing, etc.	3 00	
J. S. Holt & Co., soap	2 75	
C. H. Wood, lettering boxes	1 25	
People's Gas-light Co., gas stove	6 00	
Labor of men clearing roof, etc.	34 72	
By balance on hand	45 50	
	<hr/>	\$3,900 91

PRINTING AND STATIONERY.

		DR.
To appropriation	\$1,200 00	
	<hr/>	\$1,200 00
		CR.
Paid John B. Clarke, printing re- port, etc.	\$752 66	

Paid Campbell & Williams, printing	\$72 95	
William E. Moore, printing	4 50	
Thomas W. Lane, stationery	11 38	
Temple & Farrington Co., stationery	15 33	
Manchester Post-office, stamps, etc.	2 25	
O. D. Kimball, printing	2 00	
Reserved fund	338 93	
	<hr/>	\$1,200 00

REPAIRS OF BUILDINGS.

		DR.
To appropriation	\$2,000 00	
Reserved fund	28 87	
	<hr/>	\$2,028 87

		CR.
Paid J. R. Carr & Co., painting and glazing	\$35 74	
J. J. Abbott, painting	47 69	
John Gannon, Jr., painting	20 00	
J. Bryson, Jr., glazing, etc.	13 92	
J. B. Varick Co., wire cloth, etc.	3 87	
Head & Dowst, lumber and labor	760 28	
Miles & Sturtevant, lumber and labor	443 00	
Flint & Little, glazing, etc.	55	
L. M. Aldrich, lumber and labor	8 66	

Paid J. B. Nourse, lumber and labor	\$17 56	
J. Hodge, lumber	6 97	
A. J. Sawyer, lumber	13 24	
W. S. Baker, whitewashing	1 00	
Merrill & Laird, mason-work	7 49	
J. M. Bennett, mason-work	10 60	
C. H. Hutchinson, repairing clock	9 00	
D. E. Guiney, piping, plumbing, etc.	366 12	
T. A. Lane, piping, plumbing, etc.	22 03	
Pike & Heald, piping, plumbing, etc.	30 48	
C. H. Bunton, blacksmithing	18 45	
E. J. Williams & Son, repairing roofs, etc.	30 93	
J. B. McCrillis & Son, lumber	41 67	
Louis Wolf, plumbing, etc.	10 45	
Temple & Farrington Co., shades, etc.	64 92	
Labor of men and teams	44 25	
	<hr/>	\$2,028 87

CITY LIBRARY.

		DR.
To balance from old account	\$1,232 99	
Appropriation	3,800 00	
	<hr/>	\$5,032 99
		CR.
Paid M. J. Buncher, librarian	\$800 00	
H. E. Martin, assistant librarian	122 00	

Paid Henry H. Andrews, assistant librarian	\$39 75	
John E. McKeon, assistant librarian	62 00	
Alton F. Payne, assistant librarian	57 00	
Temple & Farrington Co., binding books, etc.	529 01	
People's Gas-light Co., gas	238 14	
L. B. Bodwell & Co., coal*	12 00	
E. P. Johnson Co., coal	191 52	
O. D. Kimball, printing	18 00	
John B. Clarke, printing, etc.	35 00	
Straw & Lovejoy, repairing clock	5 50	
L. B. Clough, insurance	100 00	
Louise E. Newell, classing newspapers, etc.	7 50	
Trustees of City Library, books	1,000 00	
Labor of men	3 00	
Manchester Water - works, water	16 00	
N. P. Hunt, stamps, etc.	4 45	
By balance on hand	1,792 12	
	<hr/>	\$5,032 99

CITY STABLE.

To appropriation	\$2,500 00	DR.
	<hr/>	\$2,500 00

		CR.
Paid John M. Kendall, architect	\$50 00	
John B. Clarke, advertising	9 00	
Union Publishing Co., advertising	8 75	
Nellie Emerson, copies of specifications	2 25	
E. R. Coburn & Co., drafting paper	1 43	
George W. Wales, labor on plans	8 25	
Reserved fund	2,420 32	
	<hr/>	\$2,500 00

MILITIA.

		DR.
To appropriation	\$700 00	
	<hr/>	\$700 00
		CR.
Paid Manchester City Guards	\$100 00	
Headquarters First Regiment		
N. H. N. G.	100 00	
Amoskeag Veterans	100 00	
Manchester War Veterans	100 00	
Sheridan Guards	100 00	
By balance on hand	200 00	
	<hr/>	\$700 00

ABATEMENT OF TAXES.

		DR.
To appropriation	\$2,500 00	
Reserved fund	524 88	
	<hr/>	\$3,024 88

	CR.	
Paid sundry persons	\$3,024 88	
	\$3,024 88	

DISCOUNT ON TAXES.

	DR.	
To appropriation	\$9,000 00	
Reserved fund	1,282 19	
	\$10,282 19	

	CR.	
Paid George E. Morrill, collector .	\$10,282 19	
	\$10,282 19	

STATE TAX.

	DR.	
To appropriation	\$63,435 00	
	\$63,435 00	

	CR.	
Paid S. A. Carter, state treasurer .	\$63,435 00	
	\$63,435 00	

COUNTY TAX.

	DR.	
To appropriation	\$40,508 54	
	\$40,508 54	

	CR.	
Paid Edwin F. Jones, county treasurer	\$40,508 54	
	\$40,508 54	

OUTSTANDING TAXES.

1884	\$918 08
1885	947 77
1886	1,000 48
1887	1,334 63

TAXES, 1888.

		DR.
To resident taxes	\$432,914 45	
Non-resident taxes	1,804 59	
	<u> </u>	\$434,719 04
		CR.
By collections	\$403,566 52	
Abatements	1,174 39	
Discounts	10,282 19	
Balance uncollected	19,695 94	
	<u> </u>	\$434,719 04

CITY OFFICERS' SALARIES.

		DR.
To appropriation	\$14,000 00	
Reserved fund	826 99	
	<u> </u>	\$14,826 99
		CR.
Paid John Hosley, mayor	\$1,800 00	
S. B. Putnam, city treasurer	1,200 00	
N. P. Kidder, city clerk	900 00	
J. M. Collity, city physician	200 00	
P. D. Harrison, clerk of common council	150 00	

Paid J. E. Dodge, clerk of school board	\$100 00
J. E. Dodge, member of school board	10 00
George W. Nutter, member of school board	10 00
L. C. Baldwin, member of school board	10 00
E. L. Kimball, <i>ex-officio</i> member of school board	3 33
John Hosley, <i>ex-officio</i> member of school board	10 00
E. B. Woodbury, member of school board	10 00
M. P. Hall, member of school board	10 00
Abial C. Flanders, member of school board	10 00
William H. Huse, member of school board	10 00
John J. Holland, member of school board	10 00
T. F. Collins, member of school board	10 00
Samuel D. Lord, member of school board	10 00
S. W. Clarke, member of school board	10 00
N. P. Hunt, member of school board	10 00
William C. Clarke, member of school board	10 00
Charles H. Manning, member of school board	10 00

Paid J. G. Hutchinson, member of school board	§10 00
Benj. C. Dean, member of school board	10 00
J. M. Kendall, <i>ex-officio</i> mem- ber of school board	6 67
George E. Morrill, tax-col- lector	1,662 41
William E. Buck, superin- tendent of schools	1,900 00
Edwin F. Jones, city solici- tor	500 00
J. A. Barker, city messen- ger	699 96
D. O. Furnald, assessor and inspector	751 00
John Ryan, assessor	215 00
George H. Dudley, assessor	350 00
Frank E. McKean, assessor	140 00
H. D. Lord, assessor	225 00
J. E. Stearns, assessor	198 00
Ira W. Stearns, assessor	200 00
C. H. Brown, assessor	37 50
F. B. Potter, assistant asses- sor	45 00
William Stearns, assistant assessor	30 00
Isaac Whittemore, assistant assessor	48 00
S. L. Flanders, assistant assessor	45 00
E. W. Brigham, clerical ser- vices for assessors	212 50
Harry T. Lord, clerical ser- vices for assessors	62 50

Paid N. Nichols, clerical services for assessors	\$260 00
T. S. Monette, interpreter for assessors	28 00
C. A. U. Ouilette, interpreter for assessors	31 00
Isaac Whittemore, inspector of check-lists	118 50
George C. Kemp, inspector of check-lists	66 00
Edward J. Lawler, inspec- tor of check-lists	16 87
Henry F. Stone, inspector of check-lists	160 00
Charles E. Morrison, in- spector of check-lists	67 50
H. D. Lord, inspector of check-lists	163 75
B. L. Hartshorn, inspector of check-lists	27 00
Joseph A. Foster, inspector of check-lists	74 75
Eugene W. Brigham, assist- ant inspector of check- lists	45 00
Charles A. Carpenter, assist- ant inspector of check- lists	42 75
John Dowst, supervisor	6 00
F. W. McKinley, supervisor	6 00
F. T. E. Richardson, super- visor	10 00
William C. Knowlton, supervisor	6 00

Paid James Sutcliffe, supervisor	\$6 00
Joseph Lariviere, supervisor	19 00
W. T. Paine, supervisor .	8 00
W. D. Ladd, supervisor .	8 00
Hiram Hill, supervisor .	8 00
J. J. Minturn, supervisor .	12 00
Benj. Spofford, supervisor .	8 00
E. B. Dunbar, supervisor .	10 00
C. H. Hodgman, supervisor	18 00
John H. Slater, supervisor	12 00
C. A. Carpenter, supervisor	8 00
William H. Maxwell, overseer of the poor . . .	25 00
William H. Maxwell, clerk of overseers of the poor .	75 00
Horatio Fradd, overseer of the poor	25 00
William Marshall, overseer of the poor	25 00
John Hosley, <i>ex-officio</i> overseer of the poor . . .	25 00
Charles Francis, overseer of the poor	25 00
F. J. Morrison, overseer of the poor	25 00
Horace Gordon, overseer of the poor	25 00
James Sutcliffe, overseer of the poor	25 00
Thomas L. Quimby, overseer of the poor	25 00
Judith Sherer, matron at pest-house	360 00
Marcellus Gould, moderator	3 00

Paid T. W. Challis, moderator .	\$3 00
W. A. Carpenter, moderator	3 00
H. McDonough, moderator	3 00
J. M. Greaney, ward clerk .	10 00
Michael Herbert, ward clerk	10 00
A. L. F. Geoffroy, ward clerk	6 00
H. J. Matthews, ward clerk	5 00
George H. Allen, ward clerk	5 00
Edson S. Heath, ward clerk	10 00
Jesse B. Pattee, ward clerk	11 00
J. J. Sherry, ward clerk .	10 00
H. P. Hunter, selectman .	5 00
E. L. Carpenter, selectman	5 00
O. C. Monbleau, selectman	5 00
Charles Atherton, selectman	5 00
George C. Lord, selectman	5 00
David Thayer, selectman .	5 00
D. W. Anderson, selectman	5 00
C. G. Dodge, selectman .	5 00
Sylvester Drew, selectman	5 00
J. F. Frost, selectman .	5 00
P. McManus, selectman .	5 00
Wm. Morrissey, selectman .	5 00
J. J. Hayes, selectman .	5 00
Thomas W. Lane, inspector of buildings	100 00
C. B. Littlefield, inspector of milk	150 00
J. M. Crawford, clerical labor for inspectors .	75 00
G. A. Crosby, health officer	200 00
Geo. C. Hoitt, health officer	200 00
J. B. Sawyer, health officer	200 00

 \$14,826 99

TRUANT OFFICER.

To appropriation	\$750 00	DR.
	<u> </u>	\$750 00
Paid Samuel Brooks	\$562 50	CR.
G. M. L. Lane	187 50	
	<u> </u>	\$750 00

ENGINEERS' DEPARTMENT.

To appropriation	\$2,500 00	DR.
Reserved fund	61 80	
	<u> </u>	\$2,561 80
Paid W. H. Bennett, city engineer	\$1,000 00	CR.
W. H. Bennett, supplies, etc.	38 85	
J. J. McDonough, assistant engineer	311 50	
H. M. Young, assistant engineer	524 99	
George W. Wales, assistant engineer	460 50	
J. F. Woodbury & Co., blacksmithing	13 25	
J. B. Varick Co., ax and crayons	1 25	
Wadsworth, Howland & Co., tracing cloth	8 40	
T. W. Lane, pencils	50	

Paid W. W. Hubbard, stakes	\$1 00	
J. Hodge, stakes	30 70	
Temple & Farrington Co., tracing paper, blank- books, etc.	45 10	
O. D. Kimball, printing	6 00	
John B. Clarke, printing reports	24 95	
C. H. Wood, painting	11 50	
Buff & Berger, leveling- rod, etc.	28 20	
F. F. Shaw, repairing clock	1 00	
George Blanchet, cotton cloth, etc.	9 81	
Head & Dowst, lumber and labor	2 42	
J. B. McCrillis & Son, re- pairing wagon, etc.	33 28	
John T. Beach, repairing wagon, etc.	8 60	
	<hr/>	\$2,561 80

HEALTH DEPARTMENT.

		DR.
To appropriation	\$1,200 00	
Reserved fund	514 40	
	<hr/>	\$1,714 40
		CR.
Paid John B. Clarke, printing	\$49 00	
Campbell & Williams, print- ing	13 65	
William E. Moore, printing	5 00	

Paid Union Publishing Co., printing	\$14 00
Daily Press Publishing Association, printing	8 00
T. H. Tuson, printing	2 50
Russell White, inspector, etc.	600 10
W. H. B. Newhall, inspec- tor, etc.	266 40
J. Blakely, professional ser- vices	5 00
W. F. Robie, professional services	5 00
F. X. Chenette, burying nuisances	1 00
Edwin Kennedy, burying nuisances	2 50
Thomas Franker, burying nuisances	4 50
D. K. White, burying nui- sances	2 00
J. W. Mooar, burying nui- sances	1 00
J. B. Sawyer, stationery, etc.	17 53
L. M. Aldrich, carpenter- work	75
Labor of men and teams	700 87
E. R. Angell, disinfectant	15 60
	<hr/>
	\$1,714 40

FIREMEN'S ANNUAL PARADE.

DR.

To appropriation	\$300 00	
Reserved fund	100 00	
	<u> </u>	\$400 00

CR.

Paid Knights of Pythias' Drum		
Corps	\$5 00	
John B. Clarke, printing . .	7 65	
F. H. Roberts, caterer . . .	248 25	
Sons of Veterans' Drum		
Corps	10 00	
First Regiment Band	50 00	
C. D. Palmer, team	65 50	
T. W. Lane, stationery . . .	3 75	
By balance on hand	9 85	
	<u> </u>	\$400 00

DECORATION OF SOLDIERS' GRAVES.

DR.

To appropriation	\$200 00	
Incidental expenses	100 00	
Reserved fund	15 25	
	<u> </u>	\$315 25

CR.

Paid Louis Bell Post, G. A. R. . .	\$300 00	
Labor of men and teams . . .	15 25	
	<u> </u>	\$315 25

WOMEN'S AID SOCIETY HOSPITAL.

		DR.
To appropriation	\$400 00	
	<u> </u>	\$400 00
		CR.
Paid Mrs. Aretas Blood, treasurer	\$400 00	
	<u> </u>	\$400 00

STARK MONUMENT SQUARE.

		DR.
To appropriation	\$100 00	
	<u> </u>	\$100 00
		CR.
Paid labor of men and teams	\$20 25	
By balance on hand	79 75	
	<u> </u>	\$100 00

TUITION.

		DR.
To William E. Buck	\$81 48	
Balance	202 41	
	<u> </u>	\$283 89

SCAVENGER TEAMS.

		DR.
To appropriation	\$5,000 00	
Reserved fund	3,524 13	
	<u> </u>	\$8,524 13
		CR.
Paid labor of men and teams	\$8,524 13	
	<u> </u>	\$8,524 13

CEMETERY FUNDS.

		DR.
To trustees	\$2,000 00	
	<u> </u>	\$2,000 00
		CR.
By bonds	\$2,000 00	
	<u> </u>	\$2,000 00

POLICE TELEGRAPH.

		DR.
To appropriation	\$5,000 00	
	<u> </u>	\$5,000 00.
		CR.
By reserved fund	\$5,000 00	
	<u> </u>	\$5,000 00

WEBSTER-STREET EAST EXTENSION.

		DR.
To appropriation	\$1,500 00	
	<u> </u>	\$1,500 00
		CR.
Paid John Perham, contractor	\$995 00	
By reserved fund	505 00	
	<u> </u>	\$1,500 00

RESERVED FUND.

		DR.
To appropriation	\$20,000 00	
Mead, Mason & Co., land	1,654 13	
Old boiler	75 00	
Dog licenses	609 00	

To Billiard-table licenses . . .	\$287 00
Milk licenses . . .	59 50
Show licenses . . .	174 00
Rent of tenements . . .	436 19
J. A. Weston & Co., weighing stone	24 00
Interest on taxes . . .	322 29
City teams	880 36
District No. 3	28 41
District No. 8	54 76
New highways	1,083 73
Land damage	965 62
Lighting streets	236 71
Bridges	3,305 80
Fire department	8,608 44
Fire-alarm telegraph	496 27
Police department	2,281 29
Printing and stationery	338 93
Police telegraph	5,000 00
City stable	2,420 32
Webster-street east extension	505 00
Equipment of Webster-street engine-house	1,669 10
	<hr/> \$51,515 85

CR.

By paupers off the farm . . .	\$248 77
City Farm	1,655 21
Highway District No. 1 . . .	14 96
“ “ 2 . . .	151 14
“ “ 4 . . .	2 31
“ “ 6 . . .	11 72
“ “ 7 . . .	14 80
“ “ 10 . . .	136 90

By Highway District No. 11	.	\$156	62
" " 12	.	78	52
" " 13	.	43	72
Watering streets	. . .	396	89
Paving streets	. . .	521	82
Macadamizing streets	. . .	354	37
Grading for concrete	. . .	553	47
Sewers and drains	. . .	8,345	81
Commons	. . .	659	72
Incidental expenses	. . .	6,058	40
Hydrant service	. . .	100	00
City Hall	. . .	1,441	91
Repairs of buildings	. . .	28	87
Abatement of taxes	. . .	524	88
Discount on taxes	. . .	1,282	19
City officers' salaries	. . .	826	99
Decoration of soldiers' graves		15	25
Main-street sewer	. . .	5	73
Repairs of schoolhouses	. . .	150	04
Fuel	. . .	917	98
Contingent expenses	. . .	437	55
Care of rooms	. . .	62	24
Engineers' department	. . .	61	80
Scavenger teams	. . .	981	75
Health department	. . .	514	40
Engine-house, Webster street		285	16
Amoskeag Cemetery	. . .	205	87
Lake-avenue engine-house	. . .	2,500	52
New tomb	. . .	240	80
Firemen's parade	. . .	100	00
By balance on hand	. . .	21,426	77
		<hr/>	\$51,515 85

WATER-WORKS.

		DR.
To balance from old account	\$23,499 56	
M. T. Thompson (overdraft)	200 00	
Mary Y. Crombie (overdraft)	200 00	
Fletcher Brown (overdraft)	1,750 00	
Charles K. Walker, water-rents	85,643 82	
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> \$111,293 38	
		CR.
Paid Charles K. Walker, superintendent, etc.	\$1,573 85	
M. F. Thompson, land	200 00	
Mary Y. Crombie, land	200 00	
Fletcher Brown, land	1,750 00	
L. W. Tenney, battery, gong, etc.	72 50	
New England Telephone and Telegraph Co., telephones	72 00	
J. H. Proctor, land	100 00	
J. H. and Luther S. Proctor, land	800 00	
Luther S. and Mary E. Proctor, land	2,400 00	
Alzina Ordway, land	335 00	
Thomas Corcoran, damage from leak	40 00	
George Fletcher & Co., refreshments	20 00	
J. B. Varick Co., hardware, etc.	128 95	
Killey & Wadleigh, hardware, etc.	2 00	

Paid Manchester Hardware Co., hardware, etc.	\$31 25
C. H. Robie, concreting	188 39
J. J. Abbott, painting	21 34
D. I. Mahoney, lumber	51 53
J. Hodge, lumber	4 34
Dana & Provost, lumber and labor	148 19
E. A. G. Holmes, lumber and labor	106 58
Head & Dowst, lumber and labor	1,745 54
Manchester Locomotive Works, sleeves, plugs, etc.	258 20
Manchester Locomotive Works, $\frac{3}{5}$ portable boiler	300 00
Lowell's Iron Foundry, sleeves, caps, etc.	22 79
Pike & Heald, galvanized iron, etc.	66 26
D. F. Cressey, blacksmith- ing	78 03
C. H. Hutchinson, ironwork, etc.	23 51
Thomas A. Lane, valves, nipples, etc.	1,178 35
Concord Railroad Corpora- tion, freight	1,279 35
E. T. James, teams	7 50
James Brothers, teams	40 50
J. C. Nichols & Son, team	2 00
John Dodge, team	3 50
Parent & Trudeau, wood	1 00
J. F. Wyman, wood	19 94

Paid L. B. Bodwell & Co., coal and wood	\$77 05
E. P. Johnson Co., coal and wood	512 31
J. B. Clarke, printing	26 50
Campbell & Williams, print- ing	24 25
T. H. Tuson, printing	41 79
Union Publishing Co., print- ing	8 20
Temple & Farrington Co., slate and pencils	1 37
Merrill Brothers, cement, etc.	80 40
Merrill & Freeman, cement	112 20
Pettee & Adams, cement	2 40
J. S. Webster, stone	30 00
M. Fitzgerald, sharpening drills, etc.	25 80
Edson Manufacturing Co., pump, hose, etc.	52 26
Chapman Valve Co., water gates	215 94
Boston Lead Manufacturing Co., pig lead	765 97
W. H. Ward & Co., bands and cocks	75 70
National Meter Co., meters	1,874 60
Holyoke Hydrant and Iron- works, hydrants	310 00
Hays Manufacturing Co., boxes and cocks	247 50
J. H. Cunningham, nipples, etc.	56 00

Paid Hersey Meter Co., meters, etc.	\$61 00
George Woodman & Co., nipples, unions, etc.	13 28
New Bedford Cordage Co., gaskets, etc.	51 10
Leonard & Ellis, machine oil	142 65
Union Water Meter Co., meters, etc.	368 21
Gilchrist & Gorham, pipes, etc.	519 14
Builders' Iron Foundry, branches, etc.	96 00
Dennison & Brown, meter- books	12 00
P. C. Holmes & Co., wheel- ring, etc.	130 90
Seeley Brothers, black paint	14 00
R. D. Wood & Co., pipe	8,889 40
Boston Belting Co., hose, etc.	32 57
Coffin Valve Co., gates	168 00
James S. Newell & Co., copper netting	49 05
Sumner & Goodwin, pipe	13 65
J. Stickney, leather packing	10 00
George E. Morrill, auditing accounts	20 00
M. Connor, damage to team	9 50
Swift Bros., damage from water	15 00
Leander Pope, blacksmith- ing	2 86
New Hampshire Rubber Co., rubber jacket	2 55

Paid G. H. Bartlett, manure	\$16 00
E. R. Coburn & Co., station- ery, etc.	8 17
Manchester File Co., files	2 42
A. N. Clapp, lead	29
G. R. Vance & Co., gal- vanized float, etc.	2 10
H. D. Gordon, umbrella racks, etc.	10 25
Dennis Kerwin, tallow	7 50
Morse & Wilson, dinner for water commissioners	2 50
John Ferguson, professional services	3 00
George H. Bartlett, manure New Hampshire Rubber Co., packing	80 00
Brock & Driscoll, water-pot, etc.	3 45
A. M. Eastman, oil, matches, etc.	1 00
Manchester L o c o m o t i v e Works, sleeves, etc.	2 75
Town of Auburn, taxes	103 70
J. N. Wilson, trucking	18 76
Austin, Flint & Day, lum- ber	75
Amoskeag Manufacturing Co., ironwork	2 00
George Whitford, wood	71 58
George R. Vance	27 44
Joseph B. Sawyer, engineer- ing	6 00
Merrill & Freeman, cement	6 00
	6 40

Paid E. T. James, teams . . .	\$26 50
Walworth Manufacturing Co.	12 90
Sewall & Day Cordage Co. .	13 58
W. P. Miller & Co.	22 50
Eager & Rand, oil, matches, etc.	12 01
Alpheus Gay, water com- missioner	75 00
Henry Chandler, water commissioner	45 00
James A. Weston, water commissioner	125 00
A. C. Wallace, water com- missioner	75 00
Joseph F. Kennard, water commissioner	51 00
E. H. Hobbs, water com- missioner	51 00
John Hosley, <i>ex-officio</i> water commissioner	45 00
Labor of men and teams .	9,795 17
Interest	36,000 00
By balance on hand	36,126 68
	<hr/> \$111,293 38

REPAIRS OF SCHOOLHOUSES.

		DR.
To balance from old account .	\$285 71	
Appropriation	4,000 00	
Reserved fund	150 04	
	<hr/>	\$4,435 75

CR.

Paid George H. Dudley, carpenter-work	\$1,580 21
Miles & Sturtevant	20 00
George W. Rief, carpenter-work	23 78
George Holbrook, carpenter-work	16 50
J. A. Sargent, painting	150 39
R. Landers, painting, etc. . . .	81 88
J. J. Abbott, painting, etc. . . .	66 81
J. Daniels & Co., painting	2 25
J. Choate, painting	110 56
Sullivan & Sloan, painting	101 55
T. A. Lane, plumbing, piping, etc.	496 02
Amoskeag Manufacturing Co., ironwork, etc. . . .	470 26
Pike & Heald, piping, plumbing, etc. . . .	117 89
Bennett & Lord, mason-work	102 22
B. W. Robinson, mason-work	44 12
D. J. Murphy, urinals, water-closets, etc. . . .	706 79
H. C. Dickey, whitewashing	10 00
B. W. Robinson, whitewashing, etc	118 12
J. B. Varick Co., asbestos sheathing	3 70
Lowell's Iron Foundry, ironwork, etc. . . .	79 05
E. Frye, ironwork	1 00

Paid Timothy Shea, cleaning vaults	\$56 25	
W. F. Gibson, portable platform	5 50	
E. T. James, team	2 50	
DeCourey & Holland, labor	5 00	
E. C. Tilton, stone, etc.	10 25	
Frank Oliver	3 75	
John B. Kenney	7 50	
Educational Supply Co.	22 08	
Labor of men and teams	19 72	
	<hr/>	\$4,435 75

FUEL.

		DR.
To appropriation	\$3,000 00	
Reserved fund	917 98	
	<hr/>	\$3,917 98
		CR.
By balance from old account	\$287 03	
Paid L. B. Bodwell & Co., coal and wood	226 83	
E. P. Johnson Co., coal	2,510 56	
Incidental expenses, coal	101 50	
C. N. Harvey, wood	602 44	
L. S. Proctor, wood	131 37	
J. Hodge, wood	1 75	
John B. Clarke, advertising	15 75	
Union Publishing Co., advertising	11 25	
Press Publishing Association, advertising	9 00	
Labor of men and teams	20 50	
	<hr/>	\$3,917 98

FURNITURE AND SUPPLIES.

		DR.
To balance from old account	\$281 05	
Appropriation	1,000 00	
Killey & Wadleigh (overdraft)	1 75	
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>	\$1,282 80
		CR.
Paid J. L. Hammett, crayons, call- bells, etc.	\$52 75	
J. J. Holland, drugs, etc.	12 75	
Milton Bradley Co.	1 58	
Temple & Farrington Co., sketch-books, etc.	40 31	
E. R. Coburn & Co., paper, ink, etc.	58 19	
H. D. Gordon, chairs	7 25	
Thorp & Adams Manufact- uring Co., ink	14 25	
Pike & Heald, hods, brooms, etc.	31 99	
Manchester Hardware Co., floor-brushes, waste-baskets, etc.	60 62	
Killey & Wadleigh, feather dusters, etc.	15 46	
John B. Varick Co., floor- brushes, hods, etc.	9 03	
Silver, Rogers & Co., mops, etc.	12 00	
D. A. Simons, feather dust- ers, etc.	13 50	
Thomas A. Lane, steam con- tract at Training School	793 42	
Dupree Electric Supply Co.	6 55	

Paid Geo. S. Perry, blackboards, etc.	\$5 95	
Clark & Estey, ribbon	13 50	
Barton & Co., rope matting	3 00	
J. Stickney, hose	9 00	
A. N. Clapp, soap, brooms, etc.	65	
Carpenter & Co., brooms	4 10	
Geo. B. Carr, mineral case, etc.	13 00	
American Manufacturing Co., desk-stands, etc.	39 46	
C. P. Trickey, crayons, etc.	3 25	
By balance on hand	61 24	
	<hr/>	\$1,282 80

BOOKS AND STATIONERY.

		DR.
To balance from old account	\$88 68	
Appropriation	500 00	
	<hr/>	\$588 68
		CR.
Paid Thomas W. Lane	\$362 70	
Temple & Farrington Co.	24 50	
Eastern Educational Bureau	6 75	
E. R. Coburn & Co.	52 94	
George S. Perry	15 45	
William Ware & Co.	4 05	
New England Publishing Co.	2 70	
Ginn & Co.	22 00	
Boston School Supply Co.	5 20	
H. C. Baird & Co.	4 00	
A. M. Edwards	3 50	
E. H. Butler & Co.	15 20	
Willard Small	14 58	

Paid A. Mudge & Son	\$6 75	
A. C. Stockin	12 26	
C. P. Trickey	2 10	
By balance on hand	34 00	
	<u> </u>	\$588 68

PRINTING AND ADVERTISING.

		DR.
To balance from old account	\$54 01	
Appropriation	400 00	
	<u> </u>	\$454 01
		CR.
Paid John B. Clarke	\$303 77	
Union Publishing Co. . . .	30 25	
Campbell & Williams	9 50	
Manchester Weekly Budget	3 00	
By balance on hand	107 49	
	<u> </u>	\$454 01

CONTINGENT EXPENSES.

		DR.
To appropriation	\$800 00	
Reserved fund	437 55	
	<u> </u>	\$1,237 55
		CR.
Paid People's Gas-light Co., gas	\$179 76	
Manchester Water - works, water	477 75	
A. A. Jenkins, tuning piano	17 00	
W. E. Buck, use of team	88 80	
William H. Vickery, repair- ing locks, keys, etc. . . .	7 70	

Paid Novelty Advertising Co., card board, etc.	\$0 85
W. J. Heron, filling diplomas	24 05
J. S. Avery, setting glass, etc.	9 10
S.W. Clarke, repairing clocks	31 00
Manchester Print-works, chemicals	2 34
Manchester Hardware Co., knob, brooms, etc.	1 44
Killey & Wadleigh, sperm oil	31
J. B. Varick Co., sponges	75
A. M. Eastman, soap, ivory, etc.	2 15
Chas. F. Hoyt, moving settees	75
F. P. Colby, moving pianos	7 00
Joel Daniels & Co., glazing	35
C. H. Kimball, outline pictures	50
Harley & Robbie, oil-cloth	19
Manchester Opera House Co., use of opera house	25 00
Higgins Bros., use of chairs	8 50
Weston & Hill, ribbon	3 69
George W. Reed, teams	4 00
M. D. Fife & Co., rubber cover for piano, etc.	7 75
W. H. Elliott, tuning pipes	1 00
E. J. Carley, cash paid for cleaning windows, etc.	1 55
L. K. Mead, dye, picks, etc.	50
Moses Tracy, use of well	30 00
H. E. Vaughan, moving pianos	5 00
R. D. Gay, shades, etc.	10 00
Ed. H. Currier, chemicals	9 76
J. B. Young, cleaning vaults	2 50

Paid A. N. Clapp, snow-shovel	\$0 40	
Carswell & Brown, lamp- chimneys	20	
A. T. Barr, labor	2 00	
Timothy Shea, cleaning vault	5 00	
S. G. Woodman, cleaning schoolhouse	2 00	
M. N. Bower, cleaning school- house	3 00	
By balance from old account	263 91	
	<hr/>	\$1,237 55

CARE OF ROOMS.

		DR.
To appropriation	\$3,200 00	
Reserved fund	62 24	
	<hr/>	\$3,262 24
		CR.
Paid William Stevens	\$600 00	
J. S. Avery	600 00	
A. T. Barr	545 00	
Michael Finley	399 97	
William H. Morrill	350 04	
H. C. Dickey	250 07	
E. P. Cogswell	250 08	
William Clancy	1 00	
Frank Derome	3 00	
Otis L. Webster	22 00	
Etta J. Carley	49 95	
D. S. Dunbar	18 50	
Ella F. Barker	48 75	
William Dobbin	26 50	
L. E. Heath	18 75	

Paid Fred R. Currier . . .	\$31 25	
John T. Duncan . . .	4 50	
Alice C. Campbell . . .	18 00	
Olive J. Randall . . .	15 00	
Arthur Sinclair . . .	6 00	
By balance from old account . . .	3 88	
	<hr/>	\$3,262 24

EVENING SCHOOLS.

To appropriation . . .	\$1,600 00	DR.
	<hr/>	\$1,600 00
		CR.
Paid Mary A. Southard . . .	\$30 00	
Fred C. Baldwin . . .	66 00	
Frank C. Livingston . . .	154 00	
Sarah B. Paige . . .	39 60	
Charles E. Cochran . . .	154 00	
Cora F. Sanborn . . .	69 00	
Etta S. Dana . . .	46 80	
Edith M. Stebbins . . .	27 00	
Maggie G. Linen . . .	27 00	
Nellie M. Atwood . . .	27 00	
Lizzie D. Hartford . . .	67 00	
Emma J. Ela . . .	30 00	
Georgie A. Nute . . .	56 00	
J. H. Campbell . . .	146 00	
E. R. Wood . . .	3 00	
Annie E. McElroy . . .	40 00	
M. Alma Fracker . . .	30 60	
A. H. Boyd . . .	27 90	
A. J. Dana . . .	13 50	
A. Stebbins . . .	90	

Paid W. H. Morrill, janitor	\$56 80	
A. T. Barr, janitor	30 00	
F. P. Colby, posting cards	4 00	
John B. Clarke, printing and advertising	29 69	
Daily Press Publishing Co., advertising	9 00	
Union Publishing Co., ad- vertising	29 16	
Georgie A. Nute, oil, chim- neys, wicks, and care of rooms	10 98	
By balance on hand	375 07	
	<hr/>	\$1,600 00

EVENING SCHOOL, MECHANICAL DRAWING.

		DR.
To appropriation	\$700 00	
	<hr/>	\$700 00
		CR.
Paid H. A. Herrick, instructor	\$78 00	
J. M. Kendall, instructor	177 00	
A. H. Sanborn, assistant instructor	67 50	
H. W. Allen, assistant in- structor	120 00	
W. H. Morrill, janitor	21 10	
F. W. Stickney, blue prints	21 00	
E. R. Coburn & Co., draw- ing paper, etc.	36 24	
D. A. Simons, stools	13 50	
Head & Dowst, stands for tables	23 00	

Paid Press Publishing Co., advertising	\$7 00	
Union Publishing Co., advertising	12 00	
John B. Clarke, advertising and printing	17 25	
By balance on hand	106 41	
	<u> </u>	\$700 00

TEACHERS' SALARIES.

To appropriation	\$43,500 00	DR.
	<u> </u>	\$43,500 00
		CR.
Paid E. R. Goodwin	\$1,200 00	
Albert Somes	800 00	
G. I. Hopkins	1,350 00	
L. E. Manahan	900 00	
R. M. Tuson	600 00	
Mary A. Buzzell	600 00	
Mary Stanton	540 00	
Fred C. Baldwin	1,350 00	
Lenora C. Gilford	183 04	
Jennie M. Chandler	500 00	
Carrie E. Reid	500 00	
C. A. Abbott	431 75	
H. G. Flanders	450 00	
Nellie M. James	450 00	
Ella F. Sanborn	450 00	
Anna O. Heath	600 00	
L. P. Gove	495 00	
Fannie D. Moulton	450 00	
N. I. Sanderson	450 00	

Paid Lucia E. Esty . . .	\$450 00
Belle M. Kelley . . .	135 00
F. S. Sutcliffe . . .	1,350 00
Annie W. Patten . . .	525 00
M. J. Fife . . .	200 00
Belle R. Daniels . . .	500 00
M. F. Barnes . . .	475 00
N. F. Ainsworth . . .	450 00
Eva F. Tuson . . .	450 00
G. A. Wyman . . .	393 75
J. W. Stetson . . .	1,350 00
Annie A. Webster . . .	439 86
Mary E. Bunton . . .	500 00
Bertha L. Dean . . .	500 00
Nancy S. Bunton . . .	475 00
Kittie J. Ferren . . .	450 00
Mary F. Nutt . . .	380 00
Clara E. Woods . . .	450 00
J. E. Pickering . . .	630 00
Cora M. Dearborn . . .	485 62
M. J. Hickey . . .	397 50
Barbara B. Joy . . .	410 50
Flora M. Senter . . .	450 00
E. E. McKean . . .	450 00
Josie H. Newton . . .	450 00
Nettie C. Woodman . . .	450 00
William F. Gibson . . .	760 00
Alta C. Willand . . .	440 00
M. N. Bower . . .	450 00
Carrie I. Stevens . . .	270 00
Lizzie A. Burns . . .	550 00
Lelia A. Brooks . . .	420 00
Izetta S. Locke . . .	450 00
Edith M. Stebbins . . .	270 00

Paid Cora F. Sanborn . . .	\$45 25
Hattie N. Gage . . .	29 50
Georgia A. Dow . . .	450 00
Gertrude H. Brooks . . .	450 00
Helen M. Morrill . . .	475 00
Alice E. Page . . .	385 00
Huldah C. Graupner . . .	360 00
Ella Hope . . .	450 00
A. S. Downs . . .	450 00
M. W. Mitchell . . .	450 00
Susie H. Frame . . .	270 00
Kate F. Clarke . . .	286 85
Mary A. Southard . . .	375 00
D. E. Haines . . .	450 00
S. B. Paige . . .	360 00
Etta J. Carley . . .	500 00
Mary G. Tynan . . .	450 00
Olive J. Randall . . .	450 00
Susie G. Woodman . . .	450 00
F. Maude Joy . . .	225 00
Georgie A. Nute . . .	495 00
Ella F. Barker . . .	450 00
Lillian C. Hall . . .	240 00
Nina B. Croning . . .	208 13
Olive A. Rowe . . .	450 00
Caroline E. Wing . . .	1,020 00
Genevieve B. Knight . . .	188 50
C. B. Gilford . . .	272 37
L. M. Smith . . .	235 75
Emma McLaren . . .	287 00
Theodora Richardson . . .	171 44
Mary J. Walsh . . .	248 00
Kate Townsend . . .	252 50
Nellie M. Atwood . . .	107 25

Paid Lillian Little . . .	\$122 75	
Abbie R. West . . .	116 00	
Nettie B. Fogg . . .	116 25	
Inez M. Warren . . .	107 25	
Mrs. F. S. Sutcliffe . . .	56 25	
M. E. Lord . . .	308 17	
J. J. Kimball . . .	700 00	
Kate Halliday . . .	108 10	
L. H. Bailey . . .	4 50	
C. W. Bickford . . .	3 00	
George Winch . . .	480 00	
Nellie S. Brown . . .	30 00	
Alverta P. Barrett . . .	34 50	
Maude L. Kent . . .	31 25	
Millie S. Morse . . .	38 25	
Emma B. Abbott . . .	40 50	
By balance on hand . . .	98 66	
	<hr/>	\$43,500 00

FUNDED DEBT.

Amount of funded debt,		
Jan. 1, 1888	\$971,700	00
Paid during the year . .	36,200	00
	<hr/>	
Amount of funded debt		
Jan. 1, 1889		\$935,500_00
Interest due, estimated .	\$20,000	00
Bills outstanding . . .	37,088	16
Cemetery bonds	9,300	00
	<hr/>	\$66,388 16
		<hr/>
Total indebtedness, Jan. 1, 1889 .	\$1,001,888	16
Cash in treasury Jan. 1, 1889	84,117	31
	<hr/>	
Net indebtedness Jan. 1, 1889 . . .	\$917,770	85
Net indebtedness Jan. 1, 1888	964,028	66
	<hr/>	
Decrease of net indebtedness during the year	\$46,257	81

VALUATION, TAXES, ETC.

Year.	Valuation.	Taxes.	No. Polls.	Poll Tax.	Val. of Poll.
1846 . .	\$3,187,726	\$22,005 95	1,808	\$2 10	\$300
1847 . .	4,488,550	24,953 54	2,056	1 68	300
1848 . .	4,664,957	39,712 53	2,688	2 58	300
1849 . .	5,500,049	44,979 92	2,518	2 47	300
1850 . .	5,832,080	48,974 23	2,820	2 37	300
1851 . .	6,906,462	51,798 47	2,910	2 25	300
1852 . .	6,795,682	54,379 45	2,745	1 92	240
1853 . .	6,995,528	61,545 81	2,907	1 82	240
1854 . .	8,237,617	62,022 44	2,814	1 80	240
1855 . .	8,833,248	71,952 09	3,725	1 94	240
1856 . .	9,244,062	114,214 88	3,760	2 96	240
1857 . .	9,983,862	84,862 98	3,695	2 04	240
1858 . .	10,259,080	78,210 85	3,695	1 83	240
1859 . .	9,853,310	81,368 01	3,495	1 92	240
1860 . .	9,644,937	86,804 87	3,651	2 16	240
1861 . .	9,343,254	99,104 96	3,974	2 40	240
1862 . .	8,891,250	84,827 45	3,071	2 21	240
1863 . .	9,597,786	96,233 86	2,995	2 40	240
1864 . .	9,517,512	142,815 98	3,168	3 50	240
1865 . .	9,478,368	209,696 20	3,176	5 18	240
1866 . .	10,050,020	245,567 19	4,114	5 50	240
1867 . .	10,101,556	207,457 39	4,170	4 61	240
1868 . .	9,929,072	208,783 07	4,583	2 85	150
1869 . .	10,205,303	254,022 43	4,709	3 72	150
1870 . .	10,710,252	234,047 63	4,959	3 27	150
1871 . .	11,365,162	236,639 74	5,404	3 12	150
1872 . .	11,542,632	259,196 67	5,911	2 24	100
1873 . .	12,001,200	300,768 00	6,212	2 50	100
1874 . .	12,716,892	312,835 95	6,219	2 46	100
1875 . .	14,195,102	315,131 29	6,227	2 22	100
1876 . .	15,309,348	248,900 93	6,295	1 62	100
1877 . .	15,605,918	246,573 46	6,341	1 58	100
1878 . .	15,912,234	276,873 32	6,477	1 74	100
1879 . .	17,482,132	264,406 73	6,633	1 50	100
1880 . .	17,735,990	263,812 17	7,219	1 48	100
1881 . .	17,943,308	316,462 26	7,574	1 76	100
1882 . .	19,175,408	312,673 82	7,831	1 62	100
1883 . .	20,055,986	332,741 72	7,944	1 65	100
1884 . .	20,613,032	361,401 61	8,143	1 75	100
1885 . .	21,137,464	345,260 15	8,157	1 63	100
1886 . .	21,379,384	347,009 31	8,602	1 62	100
1887 . .	21,905,476	373,138 96	8,996	1 70	100
1888 . .	22,162,928	432,914 45	9,344	1 95	100

CITY DEBT.

Date of Notes.	To Whom Payable.	When Payable.	Principal.
July 1, 1874	Water Bonds,	July 1, 1890	100,000 00
Jan. 1, 1872	“ “	Jan. 1, 1892	100,000 00
Oct. 31, 1863	City Bonds,	Nov. 1, 1893	70,000 00
July 1, 1864	“ “	July 1, 1894	50,000 00
July 1, 1874	Water Bonds,	July 1, 1895	100,000 00
Jan. 1, 1872	“ “	Jan. 1, 1897	100,000 00
Jan. 1, 1872	“ “	Jan. 1, 1902	100,000 00
July 1, 1881	Bridge Bonds,	July 1, 1911	60,000 00
April 1, 1885	City Bonds,	April 1, 1905	50,000 00
April 1, 1885	“ “	April 1, 1907	50,000 00
April 1, 1885	“ “	April 1, 1909	50,000 00
April 1, 1885	“ “	April 1, 1911	5,000 00
Jan. 1, 1887	Water Bonds,	Jan. 1, 1907	100,000 00

INVENTORY OF SCHOOLHOUSES.

High School house and lot . . .	\$50,000 00	
Furniture, charts, maps, books, and apparatus	2,000 00	\$52,000 00
Franklin-street house and lot . . .	18,000 00	
Furniture, maps, etc.	400 00	18,400 00
Spring-street house and lot . . .	15,000 00	
Furniture, maps, etc.	400 00	15,400 00
Lincoln-street house and lot . . .	50,000 00	
Furniture, maps, etc.	400 00	50,400 00
Ash-street house and lot	58,000 00	
Furniture, maps, etc.	400 00	58,400 00
Main-street house and lot	23,000 00	
Furniture, maps, etc.	600 00	23,600 00
Webster-street house and lot . . .	17,500 00	
Furniture, maps, etc.	350 00	17,850 00
Blodget-street house and lot . . .	3,500 00	
Furniture, maps, etc.	150 00	3,650 00
Bridge-street house and lot	900 00	900 00
Lowell-street house and lot	7,000 00	
Furniture, maps, etc.	400 00	7,400 00
Merrimack-street house and lot . .	15,000 00	
Furniture, maps, etc.	550 00	15,550 00
Wilson Hill house and lot	3,300 00	
Furniture, maps, etc.	100 00	3,400 00
Beech-street house and lot	7,000 00	
Furniture, maps, etc.	350 00	7,350 00
School-street house and lot	5,000 00	
Furniture, maps, etc.	425 00	5,425 00
South-Main-street house and lot . .	2,800 00	
Furniture, maps, etc.	200 00	3,000 00
Bakersville house and lot	13,000 00	
Furniture, maps, etc.	600 00	13,600 00

Stark District house and lot . . .	\$3,000 00	
Furniture, maps, etc.	150 00	\$3,150 00
Amoskeag house and lot	3,700 00	
Furniture, maps, etc.	125 00	3,825 00
Goffe's Falls house and lot	3,600 00	
Furniture, maps, etc.	100 00	3,700 00
Harvey District house and lot	2,500 00	
Furniture, maps, etc.	125 00	2,625 00
Webster District house and lot	600 00	
Furniture, maps, etc.	50 00	650 00
Hallsville house and lot	3,500 00	
Furniture, maps, etc.	125 00	3,625 00
Youngsville house and lot	1,400 00	
Furniture, maps, etc.	125 00	1,525 00
Mosquito Pond Dist. house and lot	1,200 00	
Furniture, maps, etc.	100 00	1,300 00
Park-street house and lot	8,500 00	8,500 00
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Amount of school property		\$325,225 00
Amount of city property		1,840,112 13
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Total amount of property		\$2,165,337 13

CITY PROPERTY.

Land, city scales, etc.	\$30,000 00
City Library building	41,000 00
Permanent inclosure of commons	22,000 00
City Hall and lot	60,000 00
City Farm and permanent improvements	34,000 00
Stock, tools, furniture, etc., at City Farm	8,882 19
Engines, hose, and apparatus	54,322 50
Fire-alarm telegraph, bell-tower, and bell	33,450 00
Engine-house, stable, and land, Vine street	47,000 00
Hose-house, cottage, and lot, Maple street	5,000 00
Hose-house, cottage, and lot, Lake avenue	9,000 00
Houses and Pine Grove Cemetery	13,000 00
Court-house and lot	51,000 00
Common sewers	338,000 00
Safes, furniture, and fixtures at City Hall	3,000 00
Street lanterns, posts, and pipes	8,000 00
Water-works	924,007 44
Horses, carts, plows, and tools for streets	5,000 00
Fire department individual alarm	3,000 00
Ward-room and lot, Manchester street	10,000 00
Police station and lot, Manchester street	40,000 00
Engine-house and lot, Ward 8	2,500 00
Engine-house and lot, Ward 8	20,000 00
Water-pipe, wagons, etc., for watering streets	2,500 00
Stock in Suncook Valley Railroad	50,000 00
Gravel lot, Belmont street	1,200 00
Engine-house and lot, Webster street	10,000 00
Gravel lots, Ward 8	400 00
Gravel lots, Bakersville	700 00
Gravel lot, District No. 8	150 00
Valley Cemetery and tomb	13,000 00
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	\$1,840,112 13

APPROPRIATIONS FOR 1889.

Interest	\$18,500 00
Paupers off the farm	6,000 00
City Farm	4,000 00
City teams	2,500 00
Highway District No 1	300 00
" " 2	10,000 00
" " 3	1,000 00
" " 4	500 00
" " 5	500 00
" " 6	400 00
" " 7	1,200 00
" " 8	800 00
" " 9	500 00
" " 10	2,800 00
" " 11	1,000 00
" " 12	300 00
" " 13	200 00
New highways	6,000 00
Damage for land taken for highways	1,000 00
Watering streets	5,000 00
Lighting streets	33,000 00
Paving streets	3,500 00
Macadamizing streets	18 000 00
Grading for concrete	4,000 00
Sewers and drains	18,000 00
Commons	3,500 00
Bridges	8,000 00
Incidental expenses	15,000 00
Pine Grove Cemetery	1,000 00
Valley Cemetery	1,500 00
Fire department	35,000 00
Fire-alarm telegraph	1,200 00
Hydrant service	21,000 00

Police department	\$33,000 00
Printing and stationery	1,200 00
Repairs of buildings	2,000 00
City library	4,000 00
Militia	800 00
Abatement of taxes	3,000 00
Discount on taxes	10,000 00
State tax	63,435 00
County tax	40,508 54
City officers' salaries	14,500 00
Firemen's parade	300 00
Decoration of soldiers' graves	300 00
Stark Monument square	100 00
Women's Aid and Relief Society hospital	400 00
Reserved fund	20,000 00
Repairs of schoolhouses	4,000 00
Fuel	3,200 00
Furniture and supplies	1,000 00
Printing and advertising	300 00
Contingent expenses	800 00
Care of rooms	3,200 00
Evening schools	1,200 00
Teachers' salaries	43,500 00
Truant officer	750 00
Engineer's department	2,700 00
Scavenger teams	9,000 00
Health department	1,400 00
Evening school, mechanical drawing	700 00
Lake-avenue engine-house	6,500 00
City tomb	1,500 00
Catalogue for City Library	2,500 00
New schoolhouse, West Manchester	15,000 00
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	\$516,493 54

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