

THE  
PUBLIC DOCUMENT.

CITY OF MANCHESTER



ANNUAL REPORTS

—FOR—

THE YEAR 1881.

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THIRTY-SIXTH ANNUAL REPORT  
OF THE  
Receipts and Expenditures  
OF THE  
CITY OF MANCHESTER

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1881,

TOGETHER WITH

Other Annual Reports and Papers Relating to the  
Affairs of the City.



MANCHESTER, N. H.:  
JOHN B. CLARKE, PRINTER.  
1882.

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1882

## CITY OF MANCHESTER.

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IN BOARD OF COMMON COUNCIL.

AN ORDER to print the Thirty-Sixth 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 Thirty-Sixth 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. January 3, 1882.

Passed.

WM. J. HOYT, *President.*

IN BOARD OF MAYOR AND ALDERMEN. January 3, 1882.

Passed in concurrence.

H. B. PUTNAM, *Mayor.*



MANCHESTER  
CITY GOVERNMENT,  
1881.

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MAYOR.

HON. HORACE B. PUTNAM.

---

CITY CLERK.

NATHAN P. KIDDER.

---

PRESIDENT OF COMMON COUNCIL.

WILLIAM J. HOYT.

---

CLERK OF COMMON COUNCIL.

JAMES A. FRACKER.

---

CITY TREASURER.

SYLVANUS B. PUTNAM.

COLLECTOR OF TAXES.

GEORGE E. MORRILL.

---

CITY SOLICITOR.

WILLIAM R. PATTEN.

---

CITY MESSENGER.

JOHN A. BARKER.

---

CITY ENGINEER.

GEORGE H. ALLEN.

---

CITY PHYSICIAN.

JAMES M. COLLITY.

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ALDERMEN.

Ward 1. — Elijah Chandler.

Ward 2. — George H. Stearns.

Ward 3. — Aretas Blood.

Ward 4. — John H. Maynard.

Ward 5. — Thomas F. Glancy.

Ward 6. — John Hosley.

Ward 7. — Timothy W. Challis.

Ward 8. — Andrew C. Wallace.

## MEMBERS OF COMMON COUNCIL.

## WARD 1.

Perkins C. Lane.  
William A. Perry.  
Charles F. Morrill.

## WARD 2.

Darwin M. Poore.  
John F. Clough.  
William J. Hoyt.

## WARD 3.

James Sutcliffe.  
Samuel Thompson.  
George Whitford.

## WARD 4.

Samuel F. Curtis.  
Robert Heath.  
Orrin D. Carpenter.

## WARD 5.

John F. Conway.  
Martin J. Foley.  
Michael McDonough.

## WARD 6.

Thomas Johnson.  
George H. Dudley.  
James S. Bachelor.

## WARD 7.

Samuel Lunt.  
George B. Smith.  
David Farmer.

## WARD 8.

James F. Baldwin.  
Frank Schnauder.  
Henry C. Ranno.

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 JOINT STANDING COMMITTEES.

*On Finance.* — The Mayor, and Alderman Blood ; Messrs. Morrill, Curtis, and Johnson.

*On Accounts.* — Aldermen Hosley and Challis ; Messrs. Smith, Poore, and Morrill.

*On Lands and Buildings.* — Aldermen Challis and Maynard ; Messrs. Heath, Carpenter, and Dudley.

*On Public Instruction.* — Aldermen Blood and Chandler ; Messrs. Curtis, Baldwin, and Sutcliffe.

*On City Farm.* — Aldermen Maynard and Hosley ; Messrs. Perry, Lunt, and Bachelor.

*On Sewers and Drains.* — Aldermen Wallace and Stearns ; Messrs. Carpenter, Clough, and Perry.

*On Streets.* — Aldermen Stearns and Wallace ; Messrs. Perry, Clough, and Carpenter.

*On Claims.* — Aldermen Challis and Maynard ; Messrs. Sutcliffe, Johnson, and Poore.

*On Commons and Cemeteries.* — Aldermen Challis and Hosley ; Messrs. Thompson, Smith, and Ranno.

*On Fire Department.* — Aldermen Wallace and Chandler ; Messrs. Bachelor, Lane, and Heath.

*On House of Correction.* — Aldermen Glancy and Stearns ; Messrs. Lunt, Foley, and Thompson.

*On Lighting Streets.* — Aldermen Stearns and Glancy ; Messrs. Whitford, Farmer, and Schnauder.

*On Water-Works.* — Aldermen Blood and Maynard ; Messrs. Whitford, Baldwin, and Conway.

*On Military Affairs.* — Aldermen Challis and Chandler ; Messrs. Lane, Dudley, and McDonough.

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STANDING COMMITTEES IN BOARD OF MAYOR AND ALDERMEN.

*On Enrollment.* — Aldermen Blood and Stearns.

*On Bills on Second Reading.* — Aldermen Hosley and Chandler.

*On Licenses.* — Aldermen Challis and Maynard.

*On Marshal's Accounts.* — Aldermen Wallace and Chandler.

*On Setting Trees.* — Aldermen Stearns and Challis.

*On Market.* — Aldermen Glancy and Wallace.

*On Special Police.* — Aldermen Challis, Hosley, and Stearns.

## STANDING COMMITTEES IN BOARD OF COMMON COUNCIL.

*On Election Returns.* — Messrs. Thompson, Whitford, and Lunt.

*On Bills on Second Reading.* — Messrs. Clough, Baldwin, and Lane.

*On Enrollment.* — Messrs. Smith, Ranno, and Morrill.

## POLICE DEPARTMENT.

*Judge of Police Court.*

Nathan P. Hunt.

*Associate Justice of Police Court.*

Isaac L. Heath.

*Clerk.*

John C. Bickford.

*City Marshal.*

Alfred D. Stark.

*Assistant Marshal.*

Horatio W. Longa.

*Captain of the Night Watch.*

Melvin J. Jenkins.

*Day Police.*

John C. Colburn.

Randall W. Bean.

*Night Watchmen.*

John F. Cassidy.	James F. Dunn.
James Bucklin.	Ira P. Fellows.
Thomas Fraim.	Philip Reischer.
William H. B. Newhall.	Francis Bourrassau.
Michael Marr.	Gideon Rochette.
Hiram Stearns.	Charles H. Reed.
Zadoc B. Wright.	Lafayette Tebbetts.
Edgar Farrar.	Eben Carr.

*Constables.*

William A. Carpenter.	Joseph B. Maynard.
George W. Hamlin.	Isaac F. Sawyer.
Charles R. Noyes.	

## SCHOOL COMMITTEE.

Hon. Horace B. Putnam, *ex-officio* Chairman.  
 Marshall P. Hall, *Clerk*.

## WARD 1.

Charles F. Everett.  
 Frank T. E. Richardson.

## WARD 2.

Benjamin C. Dean.  
 Gerherdus L. Demarest.

## WARD 3.

Daniel Clark.  
 William A. Webster.

## WARD 4.

Walter M. Parker.  
 John T. Fanning.

## WARD 5.

Denis F. O'Connor.  
 Charles A. O'Connor.

## WARD 6.

Abial C. Flanders.  
 Brackett B. Weeks.

## WARD 7.

Marshall P. Hall.  
Ezra Huntington.

## WARD 8.

Louis E. Phelps.  
Douglas Mitchell.

William J. Hoyt, *ex officio*.

## SUPERINTENDENT OF PUBLIC INSTRUCTION.

William E. Buck.

## OVERSEERS OF THE POOR.

Hon. H. B. Putnam, *ex-officio* Chairman.

\* Moses E. George, *Clerk*.

† William H. Maxwell, *Clerk*.

William H. Maxwell.

George F. Sheehan.

George H. Colby.

Robert Hall.

C. G. B. Ryder.

Elbridge G. Woodman.

\* Moses E. George.

Israel B. Farnum.

† Horace Gordon.

\* Died.

† Elected to fill vacancy.

## WATER COMMISSIONERS.

Hon. Horace B. Putnam, *ex officio*.

James A. Weston, *Clerk*.

Alpheus Gay.

Edwin H. Hobbs.

Eben T. James.

Andrew C. Wallace.

James A. Weston.

William P. Newell.

## ASSESSORS.

Charles S. Fisher, *Chairman*.David O. Furnald, *Clerk*.

Charles H. Brown.

John Ryan.

Joseph H. Haynes.

Ira W. Moore.

David O. Furnald.

Henry W. Powell.

George W. Weeks.

Charles S. Fisher.

## INSPECTORS OF CHECK-LISTS.

Joseph H. Haynes, *Chairman*.Harrison D. Lord, *Clerk*.

Hiram Forsaith.

John J. Flynn.

Joseph H. Haynes.

Isaac Whittemore.

David O. Furnald.

David Farmer.

Harrison D. Lord.

Charles S. Fisher.

## TRUSTEES OF THE CITY LIBRARY.

Nathan P. Hunt.

Isaac W. Smith.

William P. Newell.

Moody Currier.

Daniel Clark.

Lucien B. Clough.

Ezekiel A. Straw.

Horace B. Putnam, *ex officio*.William J. Hoyt, *ex officio*.

## LIBRARIAN.

Mrs. M. J. Buncher.

## BOARD OF HEALTH.

Alfred D. Stark.

Lyman H. Lamprey.

Patrick A. Devine.



## FIRE DEPARTMENT.

Thomas W. Lane, *Chief Engineer.*

Sam C. Lowell, *Clerk.*

*Assistant Engineers.*

Andrew C. Wallace.

Sam C. Lowell.

Benjamin C. Kendall.

Orin E. Kimball.

## CITY AUDITOR AND REGISTRAR.

Nathan P. Kidder.

## SUPERINTENDENT OF WATER-WORKS.

Charles K. Walker.

## WARD OFFICERS.

*Moderators.*

Ward 1. — Daniel H. Maxfield.

Ward 2. — George M. True.

Ward 3. — James B. Straw.

Ward 4. — John M. Crawford.

Ward 5. — James Dolan, Jr.

Ward 6. — George Holbrook.

Ward 7. — Timothy W. Challis.

Ward 8. — Charles K. Walker.

*Ward Clerks.*

Ward 1. — Charles H. Butman.

Ward 2. — Louis C. Merrill.

Ward 3. — Alexander H. Olzendam.

Ward 4. — Waldo E. Gilmore.

Ward 5. — Nicholas J. Whalen.

Ward 6. — George E. Glines.

Ward 7. — Frank H. Redfield.

Ward 8. — William McElroy.

*Selectmen.*

## WARD 1.

Jonathan T. Underhill.  
Charles E. Ham.  
Charles D. Wheeler.

## WARD 2.

Horace C. Paige.  
John Prince.  
George W. Varnum.

## WARD 3.

David Thayer.  
Simeon R. Stearns.  
George H. Knowlton.

## WARD 4.

Ralph Pearson.  
Sylvanus B. Putnam.  
Charles H. Uhlig.

## WARD 5.

John B. McTiernan.  
James McLaughlin.  
John Bryson

## WARD 6.

Edwin N. Baker.  
Richard E. Davis.  
Clarence M. Edgerly.

## WARD 7.

Elbridge G. Woodman.  
Samuel Clark.  
James Lightbody.

## WARD 8.

Herman Rittner.  
Charles C. Tinkham.  
Hervey Stratton.

# REPORT

OF THE

JOINT STANDING COMMITTEE ON CITY FARM.



# REPORT

OF THE

## JOINT STANDING COMMITTEE ON CITY FARM.

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*To the City Councils of the City of Manchester:—*

The Mayor and Joint Standing Committee on the City Farm hereby submit the annual report for the year ending Dec. 31, 1881:—

Live stock . . . . .	\$1,029 00
Hay, grain, and produce . . . . .	2,156 91
Furniture, farming implements, and other tools	1,712 10
Bedding and wearing apparel . . . . .	533 40
Provisions and fuel . . . . .	276 35
Household furniture . . . . .	486 00
Other articles . . . . .	423 43
	<hr/>
	\$6,617 19

Amount of stock, 1880 . . . . .	\$7,848 35
Amount of stock, 1881 . . . . .	6,617 19

	<hr/>	\$1,231 16
Cash paid out . . . . .	4,745 69	
Interest on farm . . . . .	1,000 00	
	<hr/>	\$6,976 85

Cash paid in . . . . .	\$2,484 45	
Bills receivable . . . . .	499 85	
By labor . . . . .	498 88	
Number days' board prisoners and paupers, 8,576 . . . . .	3,493 67	
	<hr/>	\$6,976 85

Average cost of board per day, 40 3-5 cents.

H. B. PUTNAM, *Mayor*.  
 J. H. MAYNARD,  
 JOHN HOSLEY,  
 SAMUEL LUNT,  
 J. S. BACHELER,

*Joint Standing Committee on City Farm.*

REPORT  
OF THE  
CITY SOLICITOR.





REPORT  
OF THE  
CITY SOLICITOR.

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*To the City Councils of the City of Manchester, —*

GENTLEMEN: — I have the honor to transmit herewith the annual report of the Law Department of the city government.

The following actions are now pending in the supreme court of Hillsborough county: —

1. — CATHARINE CUNNINGHAM *vs.* THE CITY.

This action is brought to recover damages for injuries which the plaintiff claims to have received by falling on the sidewalk in front of No. 91 Central street. Damages claimed, \$1,000.

2. — SIMON CLARK, ADMR. OF WM. CLARK, *vs.* THE CITY.

This action is brought to recover damages for the death of William Clark, a lad three or four years of age, who fell into an unused reservoir of the city, situate at the corner of West and Douglas streets.

The question as to the liability of the city is now pending in the law term of the supreme court, and will be determined in March. Damages claimed, \$10,000.

3. — HANS J. ROSENBERG *vs.* THE CITY.

The plaintiff alleges that he fell into an unused well in the sidewalk on Lowell street, in front of the residence of Fannie E. A. Riddle. Damages claimed, \$4,000.

4. — DANIEL FARMER *vs.* THE CITY.

This action was brought to recover damages to the plaintiff's land, caused by flowage of water from the street.

5. — EDWARD G. SANBORN, ADMR OF MARY J. ANDERSON,  
*vs.* THE CITY.

The plaintiff alleges that Mary J. Anderson, on or about the 26th day of January, 1881, slipped and fell, and received such severe injuries that from the effects thereof she died. Damages claimed, \$5,000.

6. — SARAH A. DAVIS *vs.* THE CITY.

The plaintiff claims that on or about the 10th day of February, 1881, she fell on the sidewalk and received severe injuries. Damages claimed, \$5,000.

7. — THE CITY *vs.* COUNTY OF HILLSBOROUGH.

This action is still pending in the law term, and will probably be determined in March.

8. — S. N. BELL *vs.* THE CITY.

This is a petition for the assessment of damages to land caused by laying out a highway.

There were pending, at the date of my last report, fifteen actions in which the city was a party. Of these, eleven have been disposed of as follows: —

David S. McKay *vs.* the City, and George A. Crosby *vs.* the City, were tried by the jury at the January term, 1881,

and a verdict for the city obtained in each suit. James Connelly *vs.* the City, and Ann Shehan *vs.* the City, were dismissed. Franklin-street Society *vs.* the City, and Manchester Mills *vs.* the City, and George G. Griffin *vs.* the City, were entered "neither party," by agreement of counsel. In the action of Daniel K. Mack *vs.* the City, the county commissioners awarded the plaintiff \$150. The actions of Frank Clement and John Conway were compromised by the payment of a less sum than it would cost to try them.

Respectfully submitted.

WILLIAM R. PATTEN,  
*City Solicitor.*

MANCHESTER, N. H., January 1, 1882.



REPORT  
OF THE  
CITY PHYSICIAN.



REPORT  
OF THE  
CITY PHYSICIAN.

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*To the Honorable Mayor and the City Councils: —*

I respectfully submit the following report of the duties intrusted to my charge during the past year. It is not less a matter of interest to the city than a pleasure to myself to be able to state that the condition of the city's poor has been exceptionally good. I have made such visits to the city farm as have been required, and have to report but one death, viz., of a female inmate, from consumption; one death of a woman receiving city aid occurred from typhoid fever at the Women's Aid Society Hospital; one case of infanticide was reported, — making in all three deaths that came to my notice officially during the year.

I have made visits to one hundred or one hundred and fifty of the city's poor outside the public institutions mentioned above, and am happy to state that not a single death has occurred, which is a noteworthy fact, considering that a majority of these people are more likely to be afflicted, living, as they do, in the thickly settled quarters.

As you are aware, the inmates at the city farm are a class of people suffering from infirmities or disabilities, and I

assure you that their wants have been fully supplied by those having them in charge. The recent repairs and improvements at the institution will add greatly to the health of the inmates. I would recommend as a matter of cleanliness, thereby promoting health, that a suitable bath-room be added.

We have reason to rejoice that the city has been free from any of the contagious or infectious diseases which have prevailed in neighboring cities. The past year has been remarkable for the absence of diphtheria and typhoid fever, and not a single case of small-pox has occurred. I recommend as one safeguard, in the event of a visit from small-pox, that the city authorities call the attention of parents of school-children to the safety of vaccination. Such action has just been taken by the Portsmouth authorities.

The alarm experienced by citizens late in the fall from scarlet fever almost developed into a "scare." Such alarm was in part unnecessary, as the disease was principally confined to two families, one of whom lost three children within two weeks, and the other had two children afflicted. There were never more than ten cases of scarlet fever at one time.

I would speak of certain defects in the police-station for the proper attendance of prisoners or unfortunates who have been brought in by the police, and who are suffering from sickness or injuries. There are no conveniences whatever for the proper attendance of such persons, and the care which they need cannot be supplied. In the absence of a city hospital, I would recommend that a suitable hospital ward be fitted up in the police-station.

In concluding my report, I will refer to the good work performed by the Board of Health in putting a stop to the night odors which have heretofore been the cause of great



complaint. I am happy to say that we shall no longer be afflicted with the abominable stenches arising from sewers in some localities. We should feel grateful for the sanitary condition of our city, and should neglect no measure which would preserve its present healthfulness.

Respectfully yours,

JAMES M. COLLITY,

*City Physician.*

MANCHESTER, N. H., January 1, 1882.



REPORT

OF THE

CHIEF ENGINEER OF THE FIRE DEPARTMENT.



REPORT  
OF THE  
CHIEF ENGINEER OF THE FIRE DEPARTMENT.

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ENGINEERS' OFFICE,  
MANCHESTER, N. H., December 31, 1881.

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

In compliance with section 5 of chapter 8 of the "Laws and Ordinances" of the city, I herewith submit the annual report of the Manchester Fire Department for the year ending December 31, 1881, also an inventory of the property of the department, and a statement of alarms, fires, losses, insurance, etc.

While last year was considered a favorable one for the city in regard to fires, the one just closed has been most remarkable for a city of its size, and the losses have been lighter than for many years previous. During the year there have been only twelve alarms, two of which were from burning chimneys.

ORGANIZATION.

As the department is at present organized, it consists of one hundred and two members, divided as follows :—

1 Chief Engineer.

- 4 Assistant Engineers.
- 2 Steam Fire Engine Companies,— 14 men each.
- 1 Horse Hose Company,— 20 men.
- 2 Horse Hose Companies.— 12 men each.
- 1 Hook and Ladder Company,— 25 men.

THE APPARATUS,

which is all in good repair and serviceable condition, is located as follows, and consists of—

- \*4 Steam Fire Engines, at Central Fire Station.
- 1 Horse Hose Carriage. at Central Fire Station.
- 1 Horse Hose Sled, at Central Fire Station.
- 1 Hook and Ladder Truck, at Central Fire Station.
- 1 Supply Wagon, at Central Fire Station.
- 1 Horse Hose Carriage, corner Maple and East High sts.
- 1 Horse Hose Carriage. on Clinton street, Squog.
- 1 2 Wheeled Hose Carriage at the P. C. Cheney Company's paper-works. Amoskeag, manned by men at works.
- 1 2-Wheeled Hose Carriage, Derry mills. Goffe's Falls, manned by men at the mills.

The continued and rapid extension of the city limits makes it imperative that more hose companies should be established. I would recommend that a new horse hose-carriage be procured, and a company of twelve men organized to run it, and located in the southeastern portion of the city proper. I am informed, by Supt. Harvey of district No. 2, that the horse of such a company could be used to good advantage upon the streets during the day, within certain limits, so as to be accessible in case of alarms, thus being beneficial to the street department, while the Fire Department would be materially strengthened.

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\*Two of which are in reserve.

## THE BUILDINGS

occupied by the department have undergone various needed repairs. The engine-house in Piscataquog has been shingled; at the "north-end" tower, the bell has been raised, and the roof, as well as the room below containing the mechanical apparatus of the striker, has been much improved, while the central station is now heated by steam, with coils of pipe in its towers to facilitate the drying of hose, and the old part of the engine-house thoroughly repaired inside. A convenient office for the Board of Engineers (with a battery-room for fire-alarm adjoining) has also been fitted up and furnished, in the quarters formerly occupied by Pennacook Hose Company No. 1.

## DEFECTIVE CHIMNEYS

are still the cause of many disastrous fires, and will continue to be as long as so little attention is paid to their construction; though parties erecting buildings, and contractors in most cases, have willingly complied with article 11 of the "Regulations of the Board of Engineers," since its adoption, which is as follows:—

"ART. 11. — No person shall erect a chimney or flue which shall not be thoroughly plastered on the inside and outside, nor be built less than three feet above the ridge-pole."

In several cases during the year I have called the attention of parties who were building, to this article, and it has proved beneficial in such cases. In this connection I cannot refrain from again alluding to the importance of an

## INSPECTOR OF BUILDINGS,

whose duty it should be to carefully examine the erection and alteration of all buildings, and the construction of

chimneys therein, and thus prevent so many "fire-traps" going up in our city, that constantly increase the fire risks. The infrequency of fires the past year ought not to make us unmindful of our duty looking to the safer protection of the future of our city.

#### THE ANNUAL PARADE.

The second annual parade of this department occurred on Friday, October 7. and I have no doubt that such members of the City Councils as participated in the event, as well as citizens generally, believe it is not an unwise expenditure, bringing the department, as it does, into more social relations with our citizens.

#### THE FIRE-ALARM TELEGRAPH,

an indispensable adjunct to every efficient fire department, has worked faithfully during the year, and given prompt response to all calls made upon it. During the month of July the circuits were rearranged by Mr. Edwin Rogers, of Moses G. Crane & Co., Boston, Mass., New England agents for the "Gamewell Fire Alarm," and wires run centering at the new headquarters on Vine street, and on the 6th of July the battery transferred from the City Hall to the central station. A new three-circuit-barred switch has taken the place of the old one, and a ground galvanometer been added.

Mr. Tristram Berry has continued in charge of the alarm, and has given his usual careful attention to its workings. No new boxes have been added since the one mentioned in my last report as having been ordered at that time, though the extension of the city limits will soon necessitate locating others. I would suggest, as an addition the coming year, that a bell be placed on the school-house



to be erected on Webster street, and a striker attached. From its location an alarm could be heard at Amoskeag, as well as in the northern section of the city.

#### THE HOSE

of the department has received no new additions during the year, but for the coming year should be materially increased.

#### THE FIREMEN'S RELIEF ASSOCIATION.

This association was incorporated February 4, 1873, and its benefits have been felt by some of its unfortunate members on several occasions. Any active member of the department is entitled to membership on the payment of one dollar. During the year its funds have been increased by liberal donations from Hon. Moody Currier, Col. George W. Riddle, Hon. Jacob F. James, and Hon. George B. Chandler. Death has entered its ranks, and on the 26th day of November took from our number Frank E. Emery, a member of N. S. Bean S. F. E. No. 4. During his last illness he was cared for by the association, and at his funeral the entire department was in attendance.

The funds of the association are as follows:—

Cash in treasury February 8, 1881 . . . . .	\$798.62
Cash received for memberships . . . . .	10.00
Donated by Hon. Moody Currier . . . . .	100.00
Donated by Col. George W. Riddle . . . . .	100.00
Donated by Hon. Jacob F. James . . . . .	50.00
Donated by Hon. George B. Chandler . . . . .	50.00
	<hr/>
	\$1,108.62
To cash paid out . . . . .	98.00
	<hr/>
Leaving balance now in treasury of	\$1,010.62

While the association does not desire to appear in the light of beggars, it is very grateful for such contributions as our liberal-hearted citizens feel disposed to give.

#### TELEPHONE WIRES.

The innumerable number of wires running in all directions from the Telephone Exchange is fast becoming a serious matter, and early attention should be given it, as has been done by many cities in this and other countries. The city councils of Liverpool decided that "*the danger and inconvenience caused by the net-work of telephone wires were likely to prove a nuisance.*" and have instituted steps to remedy the evil. While the system is of great convenience to the public as a means of communication, the construction of its wires should be of such a nature as not to impede the working of the Fire Department in the discharge of its duties. The matter can be remedied, in a measure, by allowing none of the wires in the business section of the city to be put less than forty feet from the ground.

#### THE PROTECTIVE DEPARTMENT.

This is an important and valuable branch of the fire service in many of our sister cities, and one long needed here. It has been agitated at different times, and I trust that steps will soon be inaugurated for the establishing of one in connection with this department.

#### CONCLUSION.

During the summer, upon invitation of Charles D. McDuffie, Esq., agent of the Manchester Mills, the Board of Engineers inspected the hydrants and other facilities of this corporation for the extinguishment of fires, its fire-escapes, etc., and were shown the practical workings of the

“ Automatic Fire Extinguishers,” which he has placed in nearly all the rooms of the corporation under his charge. This is a wise precaution, and one which, if put to practical test, I have no doubt will do effectual service.

I desire to express my sincere thanks to my efficient associate engineers, for their able and cordial support, and their valuable counsel in all matters pertaining to the good of the department and its effective workings: to his Honor Mayor Putnam and members of the City Councils, who so willingly, by their official acts, have contributed to the needs and comforts of the department; to City Marshal A. D. Stark and Captain Jenkins of the night watch, and the members of the police force under their charge, for their assistance in all times of need; to Warren Harvey and F. S. Worthen, superintendents of districts Nos. 2 and 10, for their willing arrangements in regard to horses under their charge; and last, but not least, to the foremen and members of the several companies, for the faithful performance of their duties, and their uniform alacrity in obeying all orders. It is gratifying to be able to say that entire harmony exists between the companies of the department. I believe we have as efficient a department as any of its size, similarly organized, and have no doubt it will receive such attention at your hands as its demands merit.

Respectfully submitted.

THOS. W. LANE,  
*Chief Engineer Manchester Fire Department.*

## ALARMS, FIRES, LOSSES, ETC., FOR 1881.

1. — Tuesday, January 11, at 8.15 A. M. ; Box 15 ; slight fire in a closet of the tenement occupied by Peter Boucher, in Washington block on Pearl street ; extinguished by Assistant Engineer Kimball, with a few pails of water ; insurance paid, \$25 ; cause, matches.

2. — Friday, January 21, at 7.05 P. M. ; Box 5 ; alarm from burning chimney in block owned by Isaac Huse at corner of Manchester and Chestnut streets.

3. — Friday, January 28, at 8.20 P. M. ; Box 21 ; alarm from burning chimney in tenement occupied by John Stokes at 107 Manchester street.

4. — Friday, February 11, at 10.30 P. M. ; Box 23 ; small fire in school-house connected with Mount St. Mary's Convent, on corner of Laurel and Beech streets ; damage, \$20 ; no insurance ; cause, carelessness with ashes.

5. — Tuesday, March 22, at 4.40 P. M. ; Box 4 ; fire in rear of " Archway " on Central street, in tenement block occupied Mrs. Mary McLaughlin (in whose tenement the fire caught), Joseph Henri, Louti Ambroge, and Matthew Tafe, and owned by Almer D. Gooden ; loss, \$75 ; no insurance ; cause, defective chimney.

6. — Monday, March 28, at 12.50 P. M. ; Box 51 ; fire in small wooden building on Auburn street, corner of Franklin, owned by Eugene W. Brigham, and occupied by Silas A. Felton for the manufacture of brooms ; loss on building, \$50 ; on stock and machinery, \$300 ; no insurance ; cause, overheated stove.

7. — Tuesday, April 26, at 6.45 A. M. ; Box 5 ; a fire was discovered in the rooms occupied by Mrs. Mary A. Woodward and Miss Susie Curtis, in the third story of Clough's Block, on Manchester street. The fire started while the occupants were at breakfast, and it obtained

considerable headway before being discovered. The flames spread through the partitions and communicated to the hall above occupied by the society of St. Jean Baptiste, and necessitated putting considerable water into the building, thus damaging rooms in second story occupied by Add. Hutchinson, who was considerably damaged by water, as was the office of Gilman Clough & Son, on same floor. On the first floor was the grocery store of George E. Prime and saloon of John Specht, while in the basement the office of Bennett & Lord, masons, and eating saloon of Dan Davis; slightly damaged. The losses are estimated as follows: Gilman Clough on building, \$1,704, fully insured; Mrs. Woodward and Miss Curtis, \$300, no insurance; Add. Hutchinson, \$400, no insurance; St. Jean Baptiste Society, \$132, fully insured; George E. Prime, \$100, fully insured; John Specht, \$10, fully insured; Bennett & Lord and Dan Davis, \$25, no insurance. Cause, unknown.

8. — Saturday, June 25, at 12.40 A. M.; Box 4; slight fire in basement of wooden building in rear of 41 Cedar street, owned by John Butler; extinguished with a few pails of water, with slight damage; cause, incendiary.

9. — Wednesday, October 5, at 10.10 P. M.; Box 24; fire in cottage house owned by Mrs. William Mara, situated on Merrimack street, Wilson Hill, and occupied by Charles Wilson, who lost most of his household goods; loss, Mrs. Mara, \$300, insured \$200; Mr. Wilson, \$400, no insurance; cause, defective chimney.

10. — Thursday, October 20, at 12.10 P. M.; Box 21; fire in tenement block owned by D. A. Simons and estate of E. W. Bartlett, at No. 182 Manchester street, and occupied by "Ham" Morse and Maggie Connor; loss, \$20; fully insured; cause, pipe-smoking in bed.

11. — Friday, November 25, at 1.06 A. M.; Box 18; fire was discovered in the barn connected with cottage house at

388 Merrimack street, owned by Mead, Mason, & Co., and occupied by Homer E. Slack. The barn, shed, and L of the house were consumed, and the main part of the house considerably damaged. The two-story house just east, owned by same parties, and occupied by George Morgan, was somewhat damaged. This fire obtained considerable headway before an alarm was sounded. Loss, Mead, Mason, & Co., \$1,800, insured for \$1,400; Homer E. Slack, \$2,500, insured for \$2,000. Cause unknown.

12. — Wednesday, November 30, at 4.15 P. M.; fire in L of two-story wooden building, owned by Garrett Murray, at corner of Central and Chestnut streets, and occupied by James Harris; extinguished with a few pails of water; damage, \$10; fully insured; cause, defective chimney.

#### RECAPITULATION.

From the foregoing record it will be seen that the aggregate losses for the year 1881 have

been . . . . .	\$8,171 00
On which there was insurance of . . . . .	5,601 00
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Leaving total uncovered by insurance . . . . .	\$2,570 00

## NUMBERS AND LOCATION OF ALARM-BOXES AND KEYS.

No. 3. — Blood's lower shop. Keys at E. P. Johnson & Co.'s office and Samuel Colby's residence, corner of Elm and Young streets.

No. 4. — Corner of Spruce and Elm streets. Keys at National Hotel and L. B. Bodwell & Co.'s office.

No. 5. — City Hall. Keys at City Marshal's office and G. E. Hall's drug-store.

No. 6. — Engine-house, Vine street. Keys at engine-house.

No 7. — City Hotel. Keys at City Hotel and A. F. Perry' drug-store.

No. 8. — Elm, foot of Orange street. Key at Chandler & Tewksbury's store.

No. 9. — Corner of Elm and Webster streets. Keys at H. D. Corliss's, George E. Flanders's, and J. Freeman Clough's.

No. 12. — Blood's shop. Keys at office.

No. 13. — Corner of Brook and Chestnut streets. Keys at residences of W. Jencks, Lewis Simons, and E. L. Bryant.

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 residence of Sanborn T. Worthen, 530 Chestnut street, and H. B. Sawyer's store.

No. 16. — Corner of Lowell and Union streets. Keys at residences of Rev. Dennis M. Bradley and R. H. Hassam.

No. 17. — Corner of Amherst and Beech streets. Keys at residences of H. P. Watts and Daniel Connor.

No. 18. — Corner of Manchester and Maple streets. Keys at residences of 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 and residence of J. A. Emerson.

No. 23. — Corner of Central and Beech streets. Keys at residences of E. T. James and Mrs. Josiah Stevens.

No. 24. — Corner of Massabesic and Park streets. Keys at residences of D. M. Goodwin, A. D. Gooden, and Nicholas Hopkins.

No. 25. — Corner of Hanover and Ashland streets. Keys at residences of S. L. Fogg, Horace Gordon, and Horace Stearns.

No. 26. — Corner of Bridge and Russell streets. Keys at McCrillis's carriage-shop and residence of John N. Chase.

No. 27. — Corner of Merrimack and Elm streets. Keys at Manchester House, Tebbetts Brothers' and Weeks & Currier's drug-store.

No. 31. — Amoskeag Village. Keys at P. C. Cheney Co.'s paper-mill and residence of Capt. J. M. Varnum.

No. 32. — Langdon Mills, corner of Canal and Brook streets. Keys at Hoyt & Co.'s paper-mill and Langdon watch-room.

No. 34. — Mechanics' Row. Keys at watch-room and W. W. Hubbard's office.

No. 35. — Stark Mills. Keys at Stark watch-room.

No. 36. — Corner of Belmont and Amherst streets. Keys at residences of John P. Lord, H. M. Tarbell, and A. G. Fairbanks.

No. 41. — Amoskeag New Mills. Keys at watch-room.

No. 42. — Manchester Mills. Keys at watch-room.

No. 43. — Namaske Mills. Keys at watch-room.

No. 45. — Amory Mill counting-room. Keys at watch-room and A. J. Mayhew's, 51 Stark corporation, corner of Canal and Bridge streets.



No. 51. — S. C. Forsaith & Co.'s shop. Keys at S. C. Forsaith's office and Lowell's iron-foundry office.

No. 52. — Barr's brick block, 'Squog. Keys at Allen N. Clapp's store and Merrimaek House.

No. 53. — Wallace's brewery. Keys at brewery office and Barnard & Huskie's store.

No. 61. — Corner of Elm and Hancock streets, Bakersville. Keys at residence of H. W. Longa and M. Howlett's saloon.

No. 62. — Massabesic street, Hallsville. Keys at residences of Charles C. Chase and G. W. Dearborn.

No. 72. — Corner of Cedar and Pine streets. Keys at residences of T. Collins and Daniel Sheehan.

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 John N. Baker's jewelry store, and 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, keys to which are in the hands of all regular police, also of persons designated by a card on each box.

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 and remove the key.

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 and give the alarm from that.

4. Never signal for a fire seen at a distance. Never touch the box except to give an alarm of fire. Be sure the box is locked before leaving it. Give an alarm for no cause other than an 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 four times for an alarm.

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.

One stroke of the fire-bells closes the primary schools. and two strokes closes all the schools, for the half-day upon which they may be given, at 8.15 A. M. for the forenoon, and 1.15 P. M. for the afternoon.

## RULES AND REGULATIONS ADOPTED BY THE BOARD OF ENGINEERS.

1. Steamer No. 1 will report for duty on the days of its first run to all boxes; on the days of its second run, it will report on the first alarm to boxes 3, 4, 5, 6, 7, 8, 15, 21, 27, 34, 45, 51, 71.

2. Steamer No. 4, same as above.

3. Pennacook Hose No. 1 will report for duty on the first alarm to all boxes.

4. Massabesic Hose No. 2 will report for duty on the first alarm to boxes 3, 4, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 21, 23, 24, 25, 26, 27, 36, 62, 71; on the second alarm, to all boxes except 52, 53, 61.

5. E. W. Harrington Hose No. 3 will report for duty on the first alarm to boxes 3, 4, 5, 27, 42, 43, 51, 52, 53; second alarm, to boxes 35, 41, and 45.

6. Hook and Ladder No. 1 will report for duty on the first alarm to all boxes.

7. Steamer No. 2 to be kept as a reserve engine, to respond to a third alarm. The horses attached to the engine on its first run will return to the house on a second alarm, to be held in readiness to respond to a third alarm; and the engine will be manned by men appointed for that purpose and attached to Pennacook Hose and Hook and Ladder companies at all times except when the engine is on duty.

8. Steamer No. 3 will also be kept as a reserve engine, to be used in case of need.

9. The whole department will report for duty in all cases on the third alarm.

10. In case of a second alarm from either of the boxes on which the horses double on the first engine, they will immediately return and get the engine of the second run.

11. At any time when an alarm of fire is given, the engine or hose-carriage 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.

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.

13. Two strokes on the bells will be a signal for those at a fire to limber up.

14. On the first alarm from boxes 24, 25, 26, 31, 61, 62, the horses of the second run will double on the engine of its first run.

## ESTIMATED VALUE OF PROPERTY.

## AMOSKEAG STEAM FIRE ENGINE NO 1.

LOCATED ON VINE STREET.

1 first-class double-plunger engine and hose-carriage . . . . .	\$4,500 00
100 feet 3 inch leather hose . . . . .	140 00
1,400 feet 2 1-4 inch leather hose . . . . .	1,400 00
Firemen's suits . . . . .	200 00
Furniture and fixtures, including harnesses . . . . .	500 00
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Total amount . . . . .	\$6,740 00

## FIRE KING STEAM FIRE ENGINE NO. 2.

LOCATED ON VINE STREET.

( Reserve engine.)

1 first-class double-plunger engine and hose-carriage . . . . .	\$2,750 00
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## E. W. HARRINGTON STEAM FIRE ENGINE NO. 3.

LOCATED ON VINE STREET.

( Reserve engine.)

1 second-class single-plunger engine and hose-carriage . . . . .	\$2,750 00
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## N. S. BEAN STEAM FIRE ENGINE NO. 4.

LOCATED ON VINE STREET.

1 second-class double plunger engine and hose-carriage . . . . .	\$3,500 00
50 feet rubber hose . . . . .	75 00
1,800 feet leather hose . . . . .	1,800 00
Firemen's suits . . . . .	240 00
Furniture and fixtures, including one pair harnesses . . . . .	600 00
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Total amount . . . . .	\$6,215 00

## PENNACOOK HOSE NO 1.

LOCATED ON VINE STREET.

1 four-wheeled horse hose-carriage . . .	\$650 00
1 horse hose sled and reel . . . . .	75 00
2,500 feet leather hose . . . . .	2,500 00
Firemen's suits . . . . .	300 00
Furniture and fixtures, including 2 harnesses . . . . .	440 00
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Total amount . . . . .	\$3,965 00

## MASSABESIC HOSE NO 2.

LOCATED ON MAPLE STREET.

1 four-wheeled horse hose-carriage . . .	\$600 00
1,800 feet leather hose . . . . .	1,800 00
Furniture and fixtures . . . . .	60 00
Firemen's suits . . . . .	200 00
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Total amount . . . . .	\$2,660 00

## E. W. HARRINGTON HOSE NO 3.

LOCATED AT PISCATAQUOG.

1 four-wheeled horse hose-carriage . . .	\$650 00
1,800 feet leather hose . . . . .	1,800 00
Firemen's suits . . . . .	175 00
Furniture and fixtures, including harness . . . . .	200 00
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Total amount . . . . .	\$2,825 00

## EXCELSIOR HOOK AND LADDER NO. 1.

LOCATED ON VINE STREET.

1 truck with hooks and ladders . . .	\$1,500 00
1 Bangor extension ladder . . . . .	150 00
Firemen's suits . . . . .	450 00
Furniture and fixtures . . . . .	340 00
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Total amount . . . . .	\$2,440 00

## SUPPLY WAGON.

LOCATED AT ENGINE-HOUSE ON VINE STREET.

1 supply wagon and boxes . . . . .	\$160 00
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## SPARE HOSE.

AT ENGINE-HOUSE, VINE STREET.

1,000 feet of hose in store-room . . . . .	\$1,000 00
Old hose (worthless for fire purposes) . . . . .	25 00
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Total amount . . . . .	\$1,025 00

## ENGINEERS' DEPARTMENT.

5 fire-hats . . . . .	\$7 50
Furniture and fixtures . . . . .	125 00
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Total amount . . . . .	\$132 50

## FIRE-ALARM TELEGRAPH.

At cost . . . . .	\$20,045 00
Ladders and tools . . . . .	30 00
Extra poles and wire . . . . .	55 00
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Total amount . . . . .	\$20,130 00

## GOFFE'S FALLS HOSE CARRIAGE.

LOCATED AT DERRY MILLS.

1 two-wheeled hose-carriage . . . . .	\$200 00
400 feet linen hose . . . . .	200 00
2 hose-pipes . . . . .	12 00
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Total amount . . . . .	\$412 00

## AMOSKEAG HOSE CARRIAGE.

LOCATED AT P. C. CHENEY CO.'S PAPER-MILL.

1 two-wheeled hose-carriage . . . . .	\$200 00
300 feet leather hose . . . . .	150 00
2 hose-pipes . . . . .	12 00
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Total amount . . . . .	\$362 00



## RECAPITULATION.

Amoskeag Steam Engine No. 1 . . . . .	\$6,740 00
Fire King Engine No. 2 . . . . .	2,750 00
E. W. Harrington Steam Engine No. 3 . . . . .	2,750 00
N. S. Bean Steam Engine No. 4 . . . . .	6,215 00
Pennacook Hose No. 1 . . . . .	3,965 00
Massabesic Hose No. 2 . . . . .	2,660 00
E. W. Harrington Hose No. 3 . . . . .	2,825 00
Excelsior Hook and Ladder No. 1 . . . . .	2,440 00
Supply Wagon . . . . .	160 00
Store-room . . . . .	1,025 00
Engineers' Department . . . . .	132 50
Fire Alarm . . . . .	20,130 00
Goffe's Falls Hose Carriage . . . . .	412 00
Amoskeag Hose Carriage . . . . .	362 00
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Total amount . . . . .	\$52,566 50

# NAMES AND RESIDENCES OF THE MEMBERS OF THE FIRE DEPARTMENT.

## BOARD OF ENGINEERS.

NAME.	Rank.	Occupation.	Residence.
Thomas W. Lane .....	Chief.....	Bookseller.....	1937 Elm St.
Andrew C. Wallace.....	Assistant.....	Lumber Dealer.....	313 Granite St.
Benjamin C. Kendall...	Assistant.....	Master Mechanic....	311 Central St.
Sam C. Lowell.....	Assistant and Clerk	Mechanic.....	5 Machine-Shop Bldg.
Orin E. Kimball.....	Assistant.....	Tanner and Currier...	17 Harrison St.

## AMOSKEAG STEAM FIRE ENGINE COMPANY NO. 1.

*House on Vine Street.*

NAME.	Rank.	Occupation.	Residence.
John A. Barker.....	Foreman .....	City Messenger.....	28 Market St.
Jonathan T. Underhill..	Assistant Foreman.	Manufacturer.....	54 Stark Corp.
Henry H. Gliues.....	Engineer .....	Machinist.. .....	Stark Block.
George R. Simmons....	Assistant Engineer.	Asst. Supt. Streets. .	82 Pennacook St.
Will A. Butterfield....	Clerk.....	Manufacturer.....	31 Market St.
George W. Butterfield..	Driver.....	Teamster .....	28 Vine St.
Frank E. Stearns.....	Hoseman.. .....	Painter .....	389 Park St.
Edward H. Currier.....	" .....	Druggist. ....	Hanover cor. Maple.
Artemas C. Barker.....	" .....	Currier.....	494 Pine St.
James R. Carr.....	" .....	Painter.....	14 Orange St.
John E. Wilson.....	" .....	Mechanic.....	Stark Block.
Henry T. Stevens .....	" .....	Clerk.....	102 Myrtle St.
Charles F. McCoy.....	" .....	Mechanic.....	5 M. S. B.
John B. Hall.....	" .....	Druggist.....	79 Walnut St.

## N. S. BEAN STEAM FIRE ENGINE COMPANY NO. 4

*House on Vine Street.*

NAME.	Rank.	Occupation.	Residence.
Eugene S. Whitney.....	Foreman.....	Machinist .....	101 Orange St.
Charles E. Ham.....	As-t. Foreman.....	Carpenter.....	44 M. S. B.
Edgar G. Abbott.....	Clerk.....	Machinist .....	543 Chestnut St.
Fred S. Bean.....	Engineer.....	“ .....	101 Orange St.
Thomas F. Dodge.....	Asst. Engineer.....	“ .....	91 Orange St.
Almus B. Cushing.....	Driver.....	Teamster .....	20 Vine St.
William H. Dodge.....	Hoseman. ....	Manufacturer.....	874 Elm St.
George W. Bacon.....	“ .....	Carpenter .....	45 Stark Corp.
Alfred Nearborn.....	“ .....	“ .....	Cor. E. High & Jane.
John Martiu.....	“ .....	Machinist.....	22 M. S. B.
Albert Merrill .....	“ .....	“ .....	101 Orange St.
John A. Ankarloo.....	“ .....	Dyer.....	82 Laurel St.
Jeremiah Lane.....	“ .....	Clerk.....	1441 Elm St.
John W. Chase.....	“ .....	Manufacturer.....	556 Chestnut St.

## PENNACOOK HOSE COMPANY NO. 1.

*House on Vine Street.*

NAME.	Rank.	Occupation.	Residence.
Albert Maxfield...	Foreman .....	Belt Maker.....	23 M. S. B.
Clarence D. Palmer....	Asst. Foreman.....	Marble Worker .....	347 Central St.
Joseph E. Merrill.....	Clerk .....	Currier.....	85 Walnut St.
Walter L. Blenus.....	Driver.....	Teamster .....	26 Vine St.
George H. Porter .....	Hoseman .....	Carpenter.....	277 Laurel St.
John M. Plaisted.....	" .....	Boot and Shoe Dealer	1083 Elm St.
Charles B. French.....	" .....	Carpenter .....	10 M. S. B.
Will G. Chase.....	" .....	Photographer.....	696 Elm St.
Lyman M. Aldrich .....	" .....	Carpenter .....	375 Park St.
Joseph H. Alsop. ....	" .....	Card Grinder .....	287 So. Main St. (P.)
Daniel W. Morse.....	" .....	Machinist . . . . .	1419 Elm St.
George W. Cheney.....	" .....	" .....	1352 Elm St.
Gilbert A. Sackett .....	" .....	Weaver.....	35 M. S. B.
Edwin A. Durgin .....	" .....	Machinist.....	133 Hanover St.
Samuel A. Hill.....	" .....	Carpenter.....	Pr. Wks. Bl., 'Squog.
Edwin E. Weeks.....	" .....	Machinist.....	502 Manchester St.
Albert A. Puffer.....	" .....	Teamster .....	544 Chestnut St.
Charles W. Brown.....	" .....	Clerk.....	640 Union St.
Martin W. Ford.....	" .....	Molder .....	140 Bridge St.
John E. Chase.....	" .....	Carpenter.....	334 Pine St.

## MASSABESIC HOSE COMPANY NO. 2.

*House on Maple Street.*

NAME.	Rank.	Occupation.	Residence.
John F. Seaward.....	Foreman .....	Carpenter.....	27 Warren St.
Revalo G. Houghton....	Asst. Foreman.....	Gas Fitter.....	288 Bridge St.
Henry G. Seaman.....	Clerk .....	Carpenter.....	14 South St.
Walter Seaward.....	Driver.....	Teamster .....	19 Warren St.
Joseph W. Batchelder..	Hoseman.....	Carpenter.....	413 Pine St.
William S. McLeod.....	" .....	Grainer.....	66 Nashua St.
Simeon R. Stearns.....	" .....	Machinist.....	63 Arlington St.
Alphonso E. Foster.....	" .....	Carpenter.....	45 M. S. B.
George W. Seaward....	" .....	Machinist.....	19 Warren St.
Henry H. Willcox.....	" .....	Plumber... ..	195 Hanover St.
Joseph C. Omey.....	" .....	Carpenter.....	39 Opera Block.
Parker W. Hannaford .	" .....	Carpenter .....	356 Lowell St.

## E. W. HARRINGTON HOSE COMPANY NO. 3.

*House on Clinton Street, 'Squog.*

NAME.	Rank.	Occupation.	Residence.
Horatio Fradd .....	Foreman.....	Grocer.....	64 Dover St.
John T. G. Dinsmore...	Asst. Foreman.....	Carpenter.. ..	48 Dover St.
Thomas O'Dowd.....	Clerk... ..	Tinsmith.....	69 Dover St.
William Doran.....	Steward.....	Machinist... ..	226 Douglas St.
John McDerby.....	Hoseman.....	Roofer.....	503 Granite St.
Ruel G. Manning.....	" .....	Carpenter.....	53 Douglas St.
Joseph Schofield. ....	" .....	Wool Sorter.....	392 Granite St.
Edward McDerby .....	" .....	Roofer.....	145 Winter St.
Andrew C. Wallace, Jr..	" .....	Lumber Surveyor...	81 Parker St.
Edward Flanagan.....	" .....	Carpenter.....	5 M. P. W.
Robert McFarland.....	" .....	Cooper .....	81 Parker St.
John Patterson.....	" .....	Engraver.....	10 Main St.

## EXCELSIOR HOOK AND LADDER COMPANY NO. 1.

*House on Vine Street.*

NAME.	Rank.	Occupation.	Residence.
John N. Chase.....	Foreman.....	Overseer.....	268 Bridge St.
John Wilson.....	Asst. Foreman.....	Carpenter.....	12 M. S. B.
George E. Glines.....	Clerk.....	Machinist.....	310 Central St.
Hiram Young.....	Treasurer.....	Slater.....	33 Dutton St.
Augustus J. Robie.....	Driver.....	Teamster.....	8 Vine St.
Edward A. G. Holmes..	Fireman.....	Carpenter.....	224 Manchester St.
George H. Dudley.....	".....	".....	159 Laurel St.
Luther J. Flint.....	".....	".....	16 Pearl St.
Harrison H. Cole.....	".....	".....	43 Water St.
Winfield S. Leavitt....	".....	".....	8 Weeks' Block.
James Orrill.....	".....	Barber.....	60 Prospect St.
Jesse B. Nourse.....	".....	Teamster.....	Union cor. Appleton.
Charles H. Cross.....	".....	Overseer.....	8 Langdon Corp.
Andrew C. Wiggiu.....	".....	Mason.....	142 Merrimack St.
Dillwyn Breed.....	".....	Belt Maker.....	335 Chestnut St.
George M. Jones.....	".....	Gardener.....	1074 Elm St.
Milo B. Wilson.....	".....	Mason.....	530 Chestnut St.
Samuel F. Adams.....	".....	Expressman.....	295 Lowell St.
Roscoe Dyer.....	".....	Machinist.....	13 Amoskeag Corp.
Warren Harvey.....	".....	Supt. Streets.....	474 Hanover St.
Sanborn T. Worthen....	".....	Carpenter.....	530 Chestnut St.
Herbert B. Bryant.....	".....	Currier.....	Cor. Amh'st & Maple
William J. Perrigo.....	".....	Currier.....	422 Chestnut St.
Joseph H. Gould.....	".....	Dresser.....	Elm cor. Lowell.
Josiah D. Andrews.....	".....	Carpenter.....	142 Merrimack St.

## 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.  
 Appleton, northwest corner of Chestnut 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, northeast corner of Elm street.  
 Auburn, front of No. 40.  
 Auburn, northwest corner of Chestnut street.  
 Auburn, northwest corner of Pine street.  
 Auburn, northwest corner of Union street.  
 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.  
 Birch, northwest corner of Lowell street.  
 Birch, northwest corner of Washington street.  
 Blodget, front of primary school-house.  
 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.  
 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.  
 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.  
 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.  
 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 Nashua street.  
 Concord, northwest corner of Maple street.  
 Concord, northwest corner of old Amherst street.  
 Dean, northeast corner of Canal street.  
 Dean, northwest corner of Elm street.  
 Depot, northeast corner of Elm street.  
 Depot, west of Franklin street.  
 Elm, front of Fisk bookstore.  
 Elm, northwest corner of Salmon street.  
 Elm, northwest corner of Cove street.  
 Franklin, opposite Middle street.  
 Granite, northeast corner of Canal street.  
 Granite, northwest corner of Elm street.  
 Granite, east end of Granite bridge.  
 Green, corner of Elm street.  
 Hancock, northwest corner of River road.  
 Hancock, near Brewery.  
 Hanover, front of First Congregational Church.  
 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. 13.  
 Harrison, northwest corner of Chestnut street.  
 Harrison, northwest corner of Pine street.  
 Harrison, northwest corner of Union street.  
 Harrison, northwest corner of Beech street.  
 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 court, northwest corner of Elm street.  
 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.  
 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.  
 Manchester, front of James Bros.' stable.  
 Manchester, northwest corner of Chestnut 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. 530.  
 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.  
 Mammoth road.  
 Mechanic, northeast corner of Canal street.  
 Mechanic, near second back street west of Elm street.  
 Mechanic, 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.  
 Middle, northeast corner of Canal street.  
 Middle, near 67 Amoskeag corporation.  
 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.  
 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.  
 Park, near No. 36.  
 Park, northwest corner of Chestnut street.  
 Park, northwest corner Union street.  
 Park, northwest corner of Maple street.  
 Park, northwest corner of Lincoln street.  
 Park, northwest corner of Wilson street.  
 Park, east end.  
 Pearl, corner of Walnut street.  
 Pearl, corner of Beech street.  
 Pearl, northwest corner of Pine street.  
 Pearl, northwest corner of Union street.  
 Pearl, northwest corner of Ash street.  
 Pearl, northwest corner of Maple street.  
 Pearl, northwest corner of Oak street.  
 Pearl, northwest corner of Clark's avenue.  
 Pennacook, northwest corner of Chestnut street.  
 Pennacook, northwest corner of Pine street.  
 Pennacook, northwest corner of Union street.  
 Pine, northwest corner of Park street.  
 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 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 Pine street.
- Prospect, northwest corner of Union 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.
- River road, northwest of Elm 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, northwest corner of Beech street.
- Spruce, northwest corner of Maple street.
- Spruce, northwest corner of Lincoln street.
- Spruce, between Chestnut and Elm streets.
- Stark, northeast corner of Canal street.
- Stark, near 13 Stark corporation.
- Stark, northwest corner of Elm street.
- State, northwest corner of Granite street.
- State, opposite 57 Manchester corporation.
- State, opposite 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, corner of Elm street.  
 Valley, corner of Willow street.  
 Walnut, northwest corner of Lowell street.  
 Walnut, opposite No. 79.  
 Water, near 38 Amoskeag corporation.  
 Water, northwest corner of Elm street.  
 Webster, northwest corner of Chestnut street.  
 Webster, corner of Elm street.  
 Webster, corner of Adams street.  
 Webster, corner of Union street.  
 West Adams, northwest corner of Elm street.  
 West Appleton, northwest corner of Elm 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, northwest corner of Canal street.  
 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.  
 Wilson, corner of Park street.  
 Young, corner of Elm street.

## LOCATION OF HYDRANTS IN 'SQUOG.

- A, corner of South Main street.  
 Bedford road, near Huntress's.  
 Bowman street, opposite cemetery.  
 C street, corner of Bedford road.  
 Clinton, corner of Dover street.  
 Clinton, corner of South Main street.  
 Center, corner of South Main street.  
 Center, opposite school-house.  
 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 Second street.  
 Granite, corner of River street.  
 Main, opposite Rice's house.  
 Mast, corner of South Main street.  
 Mast, corner of Bowman street.  
 Mast, between Bowman and South Main streets.  
 Mast, opposite J. Smith's house.  
 McGregor, opposite "Reed" House.  
 Milford, corner of South Main street.  
 Milford, corner of Bowman street.  
 Milford, corner of old Bedford road.

School, corner of Main street.  
 School, corner of Walker street.  
 School, corner of Ferry street.  
 Sullivan, corner of Main street.  
 Third, corner of Ferry street.  
 Walker, corner of River road.  
 Walker, corner of Third street.  
 Walker, corner of Parker street.  
 Walker, near corner of South Main street.  
 Wayne, near corner of Main street.  
 Wayne, near corner of Beauport street.  
 Winter, corner of South Main street.

#### AMOSKEAG.

Main, at Robinson & Stearns's Works.  
 Main, near brick school-house.  
 Main, corner of Goffstown road.  
 Main, opposite John E. Stearns's.  
 Main, near Hiram Stearns's.  
 Mill, near Paper-mill.  
 Mill, corner of Main street.  
 Varnum, corner of Main street.

In addition to the above, there are three private hydrants that are available in case of need:—

One at S. C. Forsaith & Co.'s machine-shop.  
 One at Lowell's iron foundry.  
 One at J. Hodge's wood-working establishment.  
 Making 329 in all.



REPORT  
OF THE  
BOARD OF WATER COMMISSIONERS.



REPORT  
OF THE  
BOARD OF WATER COMMISSIONERS.

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*To the City Councils of the City of Manchester,—*

GENTLEMEN:— In compliance with the ordinance establishing water-works, the Board of Water Commissioners have the honor to present herewith their tenth annual report, together with the customary report of the Superintendent, furnishing in detail an account of the operations of this department during the year ending December 31, 1881.

The total income of the water-works for this period has been sixty thousand two hundred fifteen dollars and sixty-two cents (\$60,215.62); the ordinary expense of operating and maintaining the works has been nine thousand four hundred thirty-four dollars and nine cents (\$9,434.09), leaving as net receipts fifty thousand seven hundred eighty-one dollars and fifty-three cents (\$50,781.53). This is an excess of net receipts in 1881 over those of 1880 of three thousand four hundred eight dollars and thirty-four cents (\$3,408.34).

A further expenditure has been made, mainly for the extension of distribution pipes, service pipes, hydrants, meters, and land, not properly chargeable as current ex-

penses, to the amount of twenty-eight thousand one hundred twenty-four dollars and thirty-nine cents (\$28,124.39), the larger items being for land bordering on Massabesic lake, and for extending a main pipe from Piscataquog to Amoskeag village.

The serious apprehensions that existed one year ago, that the lake, in consequence of the small amount of rainfall the two previous years, would not furnish an adequate supply of water for the use of the city, prompted the board to take such precautions that our citizens need have no fears of a recurrence of such a state of things in the future.

For the operations of this department more in detail, the commissioners desire to refer to the accompanying report of the Superintendent as a part of this report.

Respectfully submitted.

ALPHEUS GAY, *Chairman,*  
 H. B. PUTNAM, *Mayor,*  
 E. T. JAMES,  
 A. C. WALLACE,  
 WM. P. NEWELL,  
 E. H. HOBBS,  
 JAMES A. WESTON, *Clerk,*  
*Water Commissioners.*

MANCHESTER, N. H., January 2, 1882.

## SUPERINTENDENT'S REPORT.

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*To the Board of Water Commissioners of the City of Manchester,—*

GENTLEMEN :—The undersigned respectfully submits his annual report for the year 1881.

### MASSABESIC LAKE.

There has been plenty of water in Massabesic lake since February 9. At that time the water was two feet, six and three-fourths inches below the top of the dam at the head of the canal, which is the lowest point that the water has reached since the water-works were built.

The lowering of the channel at the outlet last year let down water enough to run the pumps and supply the city, so that serious trouble was prevented. The measurements taken at that time, when there was no water running in from the brooks and no evaporation (the lake being frozen over), showed that it took three inches of water per month to run the pumps and supply the city. These facts prove that the loss of water is principally from evaporation, which, in the hottest days of summer, is one-half inch per day. The arrangements that your Honorable Board have made will prevent any danger from being short of water hereafter.

In relation to any impurities that might get into Massabesic lake, the Superintendent has not been able to find

any that would affect the water in the least. There are no tanneries or factories on the borders or on any streams that run in. The city owns the land on the shore more than one-half a mile each side of the outlet, and it would take a large amount of filth to get through a half-mile of deep water to make it perceptible. It is a well-known fact that there is no body of water of its size, outside of a wilderness, that is freer from contamination by objectionable matter than Massabesic lake.

Lands bordering on the lake have been purchased of several individuals who desired to dispose of their property, at a total cost of \$6,790.

Of these, about thirty-two acres, lying between the outlet and the Island Pond property, were conveyed to the city by J. L. Fogg, for \$640. Two other pieces of land, situated in Auburn, were bought of George G. Griffin. One piece comprises about one and a quarter miles in length of the shore of the lake — the width varying from twenty-five to two hundred feet. The other is located at Griffin's mills, and includes the land on which the mills and mill-pond are situated. The price paid for both lots was \$5,000. Another lot, with buildings thereon, was purchased of Hugh B. Cochran, for the sum of \$1,150. This is situated in Sucker Village, on the main inlet to the lake, and contains twenty-five acres, more or less.

#### DAM, CANAL, AND PENSTOCK.

There have been some repairs on the canal banks, and on the road that runs along beside it. A shed has been built at the head of the penstock, to protect the men while cleaning the screens in cold weather, and to keep the snow off of the gate-covers so that, in case of accident at the pump-house, they could be got at readily.

## PUMPING STATION.

The pump and everything connected with this establishment is in good condition.

In the month of June there was a crack discovered in one of the valve chambers, caused by some defect in the casting. This caused no little anxiety for fear that it would grow larger by the continual pounding of the pumps. But it was repaired in such a workmanlike manner that it stands to-day as good as new.

## RECORD OF PUMPING, 1881.

MONTHS.	No. hours' work for both pumps.	Average strokes p'r minute.	Total No. strokes p'r minute.	Total gallons pumped in one month.	Daily average gallons pumped.
January .....	841 h.	13.02	657,172	41,401,836	1,335,543
February .....	744 "	13.72	612,318	38,576,034	1,377,715
March .....	624 " 30 m.	15.45	578,990	36,476,370	1,176,657
April .....	532 " 50 "	15.86	507,264	31,957,632	1,065,254
May .....	561 " 50 "	16.34	550,960	34,710,480	1,119,693
June.....	512 " 10 "	16.64	511,242	32,208,246	1,073,608
July.....	603 " 20 "	16.44	595,012	37,485,756	1,209,218
August.....	644 " 20 "	16.18	626,178	39,449,214	1,272,555
September.....	576 " 30 "	16.06	565,556	35,630,028	1,187,667
October.....	590 " 50 "	15.42	556,766	35,076,258	1,131,492
November.....	554 " 50 "	15.76	524,608	33,550,304	1,118,343
December..	539 " 50 "	16.81	545,518	34,367,634	1,108,633
Totals and average...	7,326 h.	15.64	6,831,584	430,889,792	1,180,520

It will be seen by the number of gallons pumped, as reported, that the daily average is about the same now as it was five years ago, although there are four miles more of distribution pipe, and nearly double the amount of money collected for water rents. This may be accounted for, perhaps, by there being less leaks, or not so many fires; at any

rate, such is the fact. The following has been the daily average:—

	Gallons.
For the year 1876 . . . . .	1,216,380
“ “ “ 1877 . . . . .	1,271,869
“ “ “ 1878 . . . . .	1,289,837
“ “ “ 1879 . . . . .	1,246,913
“ “ “ 1880 . . . . .	1,180,930
“ “ “ 1881 . . . . .	1,180,520

#### SUPPLY AND FORCE MAIN.

These remain in about the same condition as last year. There has been about the same number of leaks, and the places where trouble was anticipated hold out, and may for sometime longer. As there is but one supply and force main, it will be well to be prepared for trouble that might arise in case of a bad break.

#### RESERVOIR.

There has been no labor or money expended on the reservoir the past year. Slight repairs on the highway east, are all that has been done about the premises.

#### DISTRIBUTION PIPE.

The number of feet of pipe laid the past season is 17,703, about  $3\frac{1}{3}$  miles, at an expense of \$22,460. Of this, \$17,294 has been expended on the Amoskeag extension. This was laid with a ten-inch cast-iron pipe from the brick school-house in Piscataquog to the road in Amoskeag that leads to Goffstown Center, a distance of 7,768 feet; thence with an eight-inch pipe nearly to Black brook, a distance of 1,567 feet.

Your Honorable Board last year ordered the superintendent to make a survey and estimate of three different lines to Amoskeag. The line which was adopted and laid



was the one that was estimated to cost the most; but the building that has been done this last summer, and the water taken on this line, are proof that there was no mistake made in laying the pipe on the route that was selected.

## PIPE AND FIXTURES LAID IN 1881.

STREETS.	Length and size in feet laid.				Gates set.				Hydrants.
	12 in.	10 in.	8 in.	6 in.	12 in.	10 in.	8 in.	6 in.	
Amoskeag road.....		2,922	14	10		2	1	1	1
Amory.....			36	9			1		1
Beauport.....				516					2
Cedar.....				450					
Central.....				660					1
Front.....		1,094	1,567	32			1		3
Hollis.....				175					
Lowell.....	315				1				1
Main.....		3,752				1			
Manchester.....				815					2
McGregor.....				993				2	1
Milford.....				800					1
Mill.....				445				1	2
Myrtle.....				200					
Pearl.....				278					1
Pennacook.....				1,490				1	3
Riddle.....				260					
River.....			253				1		
Sullivan.....				59				1	1
Varnum.....				80				1	1
Wayne.....				478				1	
	315	7,768	1,870	7,750	1	3	4	8	21

$3\frac{1863}{5280}$  miles of pipe laid in 1881.

16 gates set in 1881.

21 hydrants set in 1881.

## LOCATION OF HYDRANTS SET IN 1881.

Amoskeag road near slaughter-house.  
 Amory, northwest corner of Main street.  
 Beauport, northwest corner of Main street.  
 Beauport, northwest corner of Wayne street.  
 Central, northwest corner of Hall street.  
 Front, near Flanders's store.  
 Front, near John Stearns's residence.  
 Front, near L. Proctor's residence.  
 Lowell, northwest corner of Ashland street.  
 Manchester, northwest corner of Hall street.  
 Manchester, northwest corner of Belmont street.  
 McGregor, front of Reed house.  
 Milford, near Mrs. C. Price's residence.  
 Mill, northeast corner of Front street.  
 Mill, northwest corner of Third street.  
 Pearl, northwest corner of Oak street.  
 Pennacook, northwest corner of Pine street.  
 Pennacook, northwest corner of Chestnut street.  
 Pennacook, northwest corner of Union street.  
 Sullivan, northwest corner of Main street.  
 Varnum, northeast corner of Front street.

The pipe that was taken up on the east side of the Merimack river one year ago last summer, has been laid over and connected with thicker pipe, and four more flexible joints put in, the distance being one hundred and eight feet. These flexible joints are made by the Boston Machine Company, and are the same as were laid in the first instance, with the exception that they connect to the pipe with a flange joint and a wooden packing instead of lead.

This line of pipe is in good condition, with the exception of three small leaks in some of the lead joints. It may

require the services of a diver to calk these; but it will answer as a reserve, if any thing should happen to the Granite-street line. It was thought best to put off the repairs till another summer.

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

STREETS.	Length in feet.			LOCATIONS.
	8 in.	6 in.	4 in.	
Auburn.....		6		Between Pine and Chestnut.
Canal.....	25			Corner West Bridge.
Cedar.....		7		Between Pine and Chestnut.
Concord.....		16		Corner of Chestnut.
Douglas.....		6		Near hydrant, corner Main.
Granite.....		7		Corner Canal.
Laurel.....		8½		Opposite No. 62.
Merrimack.....	12	8½		Corner of Pine.
Pearl.....	19			Cor. Pine & between Chestnut & Elm.
Quincy.....			7	Corner Granite.
River.....			172	South of Walker.
Walnut.....			7	Corner Pearl
West Bridge.....	25			Corner Canal.
Winter.....		3½		Opposite Stevens's house.
	81	62½	186	







## DISTRIBUTION PIPES AND GATES LAID AND SET TO DATE.

Size.	Cement-lined pipe.	Cast-iron.	Gates.
20 inch	20,934.9 ft.	104. ft.	5
14 "	6,825. "	4,925. "	10
12 "	8,400. "	6,317. "	15
10 "	5,074.75 "	8,330. "	12
8 "	12,563. "	4,297. "	30
6 "	82,591. "	24,049.5 "	186
4 "	8,749. "	1,175. "	15
	<hr/> 145,137.65 ft.	<hr/> 49,197.5 ft.	<hr/> 273

$27\frac{2577.65}{5280}$  miles of cement-lined pipe.

$91\frac{677.5}{5280}$  miles of cast-iron pipe.

$364\frac{255.15}{5280}$  miles of cement-lined and cast-iron pipe.

273 Gates

328 Hydrants.

7 Air-valves.

The number of applications for water to date has been twenty-one hundred and thirty-three (2,133).

One hundred and eighty-seven (187) service pipes have been laid this year, as follows:—

170	3-4	inch diameter	. .	4,259.2 feet.
12	1	" "	. .	387.4 "
3	1 1-4	" "	. .	84.5 "
2	2	" "	. .	50.0 "

Total length of service pipes, 4,781.1 feet.

Nineteen hundred and ninety-four (1,994) service pipes have been laid to date, as follows:—

40	1-2	inch diameter	. .	860.7 feet.
1,718	3-4	" "	. .	45,329.6 "
197	1	" "	. .	5,747.7 "

19	1	1-4	inch diameter	.	.	913.9	feet.
1	1	1-2	" "	.	.	57.0	"
14	2	"	"	.	.	520.3	"
5	4	"	"	.	.	136.0	"

Total length of service pipe, 53,562.2 feet.

Number miles' service pipe in street,  $10 \frac{762.2}{5280}$ .

The income from the sale of water for 1881 has been as follows:—

Received for water and hydrant		
rent . . . . .	\$44,116	18
Received for water (metered)	14,455	50
“ “ fines . . . . .	223	99
“ “ rent of meters . . . . .	1,099	48
“ “ setting meters . . . . .	120	00
“ “ building purposes . . . . .	105	60
“ “ labor and pipe . . . . .	33	87
“ “ hay on Mill's meadow . . . . .	10	00
“ “ derrick . . . . .	50	00
“ from G. G. Griffin . . . . .	1	00
Total . . . . .	\$60,115	62
Balance on hand Dec. 31, 1880,	23,303	06
	\$83,518	68

Abatements, \$118.34.

Expenses for 1881 . . . . .	\$37,558	48
Amount paid toward interest . . . . .	38,000	00
	\$75,558	48
Balance on hand Dec. 31, 1881,	\$7,960	20



## Classification of accounts for 1881 :—

Superintendence, collecting, and repairs . . . . .	\$7,426 93	
Stationery, printing, etc. . . . .	149 75	
Office and incidental expenses . . . . .	332 60	
		<hr/>
		\$7,909 28
Pumping expenses and repairs . . . . .	\$1,487 68	
Repairs to dam, canal, races, and reservoir . . . . .	37 13	
		<hr/>
		\$1,524 81
		<hr/>
Running expenses for 1881 . . . . .		\$9,434 09
Service pipes . . . . .	\$2,376 79	
Distribution pipes . . . . .	15,813 66	
Fire hydrants and valves . . . . .	1,487 12	
Land and water rights . . . . .	6,790 00	
Dam, canal, penstock, and races . . . . .	182 61	
Meters and fittings . . . . .	1,474 21	
		<hr/>
Total expended on construction in 1881 . . . . .		\$28,124 39
		<hr/>
Total expended in 1881 . . . . .		\$37,558 48

## Classification of accounts to Dec. 31, 1881 :—

Land and water rights . . . . .	\$38,348 67
Dam, canal, penstock, and races . . . . .	101,380 81
Pumping machinery, pump-house, and buildings, . . . . .	88,493 96
Distributing reservoir and fixtures . . . . .	71,542 36
Force and supply main . . . . .	88,674 02
Distribution pipes . . . . .	261,279 49
Fire hydrants and valves . . . . .	31,761 35

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 . . . . .	11,349	62
Service pipes . . . . .	31,144	50
Meters and fixtures . . . . .	9,957	38

Total construction account to Dec. 31, 1881 . . . . .		\$773,841	37
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Current expenses: —

Superintendence, collecting, and repairs . . . . .	\$48,129	99
Stationery, printing, etc. . . . .	4,041	27
Office and incidental expenses . . . . .	3,678	13
Pumping expenses and repairs . . . . .	11,861	03
Repairs to dam, canal, races, and reservoir . . . . .	1,645	83
Repairs to buildings . . . . .	254	48

Total current expenses to Dec. 31, 1881. . . . .		\$69,610	73
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Interest . . . . .	\$40,678	51
Highway expenditures . . . . .	14,000	53

		\$54,679	04
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Total amount of bills ap- proved to Dec. 31, 1881 . . . . .		\$898,131	14
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Interest, discount, and labor on highway transferred, and tools and materials sold . . . . .	\$58,594 03
Current expenses to Dec. 31, 1881 . . . . .	69,610 73
	<hr/>
	\$128,204 76
	<hr/>
Total cost, not including int.	\$769,926 38
Interest and discount to Dec. 31, 1880 . . . . .	\$272,419 51
Interest for 1881 . . . . .	37,383 00
	<hr/>
Total interest and discount to Dec. 31, 1881 . . . . .	\$309,802 51
Amount paid toward interest to Dec. 31, 1880 . . . . .	\$115,000 00
Amount paid toward interest to Dec. 31, 1881 . . . . .	38,000 00
	<hr/>
Total . . . . .	\$153,000 00

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

1872, supplies and mate- rials sold . . . . .	\$573 61
1873, supplies and mate- rials sold . . . . .	177 07
1873, accrued interest on water bonds sold . . . . .	193 26
1873, accrued interest on state bonds sold . . . . .	146 00
1873, water rents . . . . .	1,920 53
1874, supplies and mate- rials 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, 1 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
1876, 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
1878, 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
	<hr/>	
Total . . . . .	\$419,091	34
Amount appropriated to Dec. 31, 1881 . . . . .	640,000	00
	<hr/>	
Total received to date . . . . .	\$1,059,091	34
Deduct bills approved to date . . . . .	898,131	14
	<hr/>	
	\$160,960	20
Amount paid toward interest . . . . .	153,000	00
	<hr/>	
Balance on hand Dec. 31, 1881 . . . . .	\$7,960	20

CHARLES K. WALKER,  
*Superintendent.*

## USES FOR WHICH WATER IS SUPPLIED.

## PUBLIC BUILDINGS.

1 Jail.	2 Cemeteries.
11 Churches.	1 Orphanage.
1 Court-house.	1 Post-office.
2 Hose-companies.	1 City Library.
4 Fire-engines.	5 Banks.
1 Hook-and-ladder.	5 Hotels.
2 Opera-houses.	1 Masonic Hall.
1 Music Hall.	1 Odd Fellows' Hall.
1 Convent.	1 Holly-tree Inn.
1 City Hospital.	3 Halls.
1 Old Ladies' Home.	18 School-houses.
1 Solders' Monument.	1 Battery-building.

## MANUFACTURING ESTABLISHMENTS.

1 Iron foundry.	2 Sash and blind shops.
2 Dye-houses.	2 Breweries.
2 Machine-shops.	2 Shoe-shops.
6 Clothing manufactories.	1 Pop-corn.
3 Harness-shops.	1 Gas-works.
1 Brush-shop.	3 Slaughter-houses.
2 Carriage-shops.	1 Soap manufactory.
2 Cigar-shops.	1 Needle manufactory.
1 Brass and copper foundry.	

## MARKETS.

4 Fish.	1 Meat (wholesale).
10 Meat and fish.	

## STABLES.

226 Private.	9 Livery.
1 Horse-railroad.	

## OFFICES.

6 Dentists.	5 Printing.
1 Telephone.	1 Gas.
1 Telegraph.	3 Coal.
2 Express.	

## SHOPS.

20 Barber.	2 Currying.
1 Wheelwright.	4 Plumber and gas and wa- ter pipe.
6 Blacksmith.	5 Paint.
3 Carpenter.	1 Gunsmith.
1 Tinsmith.	

## STORES.

4 Auction.	57 Grocery.
19 Drug.	2 Meal.
6 Jewelry.	3 Hardware.
1 Fur.	20 Boot and shoe.
2 House-furnishing goods.	8 Stove.
20 Fancy goods.	11 Gents' furnishing goods.
1 Wholesale paper.	6 Book.
2 Wholesale produce.	1 Leather and shoe finders.
12 Dry goods.	3 Music.
4 Candy.	3 Upholstery.
1 Crockery.	4 Undertakers.
1 Cloak.	4 Cigar.
10 Millinery.	5 Sewing-machine.
2 Tea.	1 Feather-cleaner.
2 Furniture.	

## SALOONS.

7 Dining.	50 Liquor.
6 Billiard.	

## MISCELLANEOUS.

1 Club-room.	3 Greenhouses.
2 Bleacheries.	1 Band-room.
9 Laundries.	11 Bakeries.
2 Ice-houses.	1 Waste.
8 Photographers.	

## WATER FIXTURES, ETC.

4477 Families.	100 Urinals.
76 Boarding-houses.	1046 Sill cocks.
5511 Faucets.	328 Fire hydrants.
806 Wash bowls.	9 Stand pipes.
805 Water-closets.	13 Water-troughs.
222 Wash-tubs.	737 Horses.
256 Bath-tubs.	33 Cattle.



## MATERIAL ON HAND.

## PIPE.

757 ft. 20 in. pipe.	641 ft. 14 in. pipe.
540 ft. 12 in. pipe.	156 ft. 12 in. flange pipe.
804 ft. 10 in. pipe.	1470 ft. 8 in. pipe.
360 ft. 6 in. pipe.	300 ft. 4 in. pipe.
31½ ft. 8 in. wrought-iron pipe.	

## BRANCHES.

1 double 6 on 6.	1 double 6 on 12.
1 double 6 on 14.	1 double 10 on 12.
1 double 6 on 10.	1 double 4 on 6.
1 double 6 on 8.	
2 single 12 on 14.	2 single 6 on 20.
2 single 6 on 14.	4 single 6 on 10.
3 single 6 on 8.	6 single 6 on 6.
1 single 12 on 12.	3 single 6 on 14.

## GATES.

1 4 in. Eddy spigot.	9 6 in. Ludlow hubs.
2 10 in. Ludlow hubs.	1 12 in. Boston Machine Co.
1 8 in. Ludlow hub.	spigot.

## BENDS.

1 8 in. 1-4 bend.	5 6 in. 1-8 bend.
1 12 in. 1-8 bend.	1 8 x 12 in. reducer.
1 4 in. 1-4 bend.	
6 20 in. solid sleeves.	3 14 in. clamp sleeves.
2 14 in. solid sleeves.	4 12 in. clamp sleeves.
2 10 in. solid sleeves.	3 10 in. clamp sleeves.
2 6 in. solid sleeves.	11 8 in. clamp sleeves.
1 4 in. solid sleeve.	7 6 in. clamp sleeves.
3 20 in. clamp sleeves.	2 hydrant foot pieces.

## SUPPLIES AND TOOLS ON HAND AT COURT-HOUSE.

1800 ft. inch pipe.	3 14 inch cement plugs.
130 ft. 2 inch pipe.	2 12 inch cast-iron plugs.
1800 ft. 3-4 inch pipe.	1 20 inch gate-dome.
90 ft. 1-2 inch pipe.	4 15 inch gate-dome.
45 ft. 1-4 inch pipe.	2 10 inch gate-dome.
15 2 inch couplings.	3 1 inch corp. stops (for cast-iron pipe).
41 1 inch couplings R. & L.	12 3-4 inch corp. stops (for cast-iron pipe)
4 1 1-4 x 1 inch couplings.	36 1-2 inch corp. stops (for cast-iron pipe).
76 3-4 inch couplings.	17 1-2 inch soldering cocks (cement pipe).
83 3-4 inch couplings R. & L.	56 1-2 inch nipples (for connections).
30 1-2 inch couplings.	52 1 inch solder nipples.
26 1-2 in. couplings R. & L.	33 3-4 inch solder nipples.
10 3-4 x 1-2 in. couplings.	29 1 inch curb stops.
3 2 inch ells.	1 1 1-4 stop and waste.
3 1 1-2 inch ells.	3 1 1-4 soldering nipples.
13 1 x 3-4 inch ells.	6 1 inch crosses.
17 1 inch ells.	12 3-4 inch crosses.
32 3-4 inch ells.	21 1-2 inch union nuts.
44 3-4 x 1-2 inch ells.	1 1 inch brass union.
52 1-2 inch ells.	2 3-4 inch stop and waste.
3 1 1-2 x 1 inch old lead connections.	1 1 inch Chapman valve.
4 3-4 inch dies.	116 brass meter nuts.
2 1-2 inch dies.	4 balls of wicking.
8 2 inch nipples.	30 1-2 inch washers.
2 1 1-4 inch nipples.	1 20 inch brass spindle.
6 1 inch nipples.	1 14 inch brass spindle.
179 3-4 inch nipples.	3 6 inch brass spindles.
40 1-2 inch nipples.	
3 1 1-2 inch iron unions.	
3 1 1-4 inch iron unions.	
6 1 inch iron unions.	

9 3-4 inch iron unions.	5 solder coppers and pot.
7 1-2 inch iron unions.	5 red lanterns.
52 3-4 inch caps.	6 common lanterns.
20 1 x 3-4 inch bushings.	1 dark lantern.
22 3-4 x 1-2 inch bushings.	2 meter lanterns.
27 6 in. clamps 1-2 in. stop.	1 reflector lantern.
7 8 in. clamps 3-4 in. stop.	1 coil tin pipe.
4 8 in. clamps 3-4 in. stop (new style).	1 coil lead pipe.
1 washer cutter.	250 pounds -4 inch pipe.
1 die plate.	123 pounds 1 1-4 inch pipe.
18 dies R. & L. 1-2 to 1 in.	3 drills, 4 ft. 2in. long.
6 taps R. & L. 1-2 to 1 in.	2 drills, 3 feet long.
2 bushings 1-8 to 3-4 inch.	5 drills, 2 ft. 6 in. long.
2 pipe cutters.	5 drills, 2 feet long.
1 die plate, 4 bushings.	8 drills, 1 ft. 8 in. long.
5 dies 1-2 to 1-8 inch.	6 plug drills, 8 in. long.
3 files.	2 sets blocks.
1 coal hod.	3 iron bars.
6 14 in. clamps 3-4 in. stop.	5 large meter boxes.
5 14 in. clamps 1-2 in. stop.	4 small meter boxes.
2 4 in. clamps 3-4 in. stop.	1 wood stove.
2 4 in. clamps 1-2 in. stop.	1 glass cutter.
4 clamps without stop cocks.	2 gallons kerosene oil.
5 8 in. clamps 1-2 in. stop.	5 square-top box covers.
5 8 in. clamps 3-4 in. stop.	4 2 quart oil cans.
1 12 in. clamp 3-4 in. stop.	2 quarts sperm oil.
1 12 in. clamp 3-4 in. stop.	1 3 feet cubic measure.
3 12 in. clamps 1-2 in. stop.	1 platform scale.
1 foreplane.	2 wood saws.
1 smoothing plane.	2 vises.
1 mallet.	1-2 side leather.
2 hand saws.	1 pair rubber mitts.
	2 collars for hydrants.
	1 spoon shovel.

- |                           |                                 |
|---------------------------|---------------------------------|
| 1 buck saw.               | 5 long shovels.                 |
| 1 iron saw.               | 100 hydrant nuts.               |
| 1 brace and 5 bits.       | 6 tamping tools.                |
| 1 extension bit.          | 21 hydrant packings.            |
| 1 bevel square.           | 1 iron kettle.                  |
| 1 iron square.            | 1 bushel basket.                |
| 1 grindstone.             | 6 hydrant covers.               |
| 1 ax.                     | 1 iron brand, M. W. W.          |
| 1 oil stone.              | 1 steel stamp, M. W. W.         |
| 1 long cable chain.       | 7 hydrant caps.                 |
| 25 blasting tubes.        | 15 gate wrenches.               |
| 17 R. P. shovels.         | 2 furnaces and kettles.         |
| 1 iron snow-shovel.       | 2 tool boxes.                   |
| 31 picks and handles.     | 2 paving hammers.               |
| 1 3 gallon can.           | 6 cold chisels                  |
| 86 pounds gasket.         | 1 large furnace and irons.      |
| 1700 pounds pig lead.     | 1 lot rope.                     |
| 16 iron pails.            | 1 bench.                        |
| 1 iron jack for drilling. | 1 roll of enamel cloth.         |
| 1 sledge hammer.          | 1 chain for hydrant.            |
| 3 calking hammers.        | 6 hydrant wrenches.             |
| 7 striking hammers.       | 1 hydrant ring for rods.        |
| 8 calking tools.          | 2 iron rimmers.                 |
| 25 gate covers.           | 1 ice chisel.                   |
| 3 barrels pipe clay.      | 7 stop wrenches.                |
| 3 20 in. sleeves (clamp). | 10 hydrant valves (iron).       |
| 2 14 in. sleeves (clamp). | 1 pair chain tongs.             |
| 2 14 in. solid sleeves.   | 3 pair extension tongs.         |
| 4 12 in. sleeves (clamp). | 2 pipe wrenches.                |
| 3 10 in. sleeves (clamp). | 2 meter wrenches.               |
| 2 10 in. solid sleeves.   | 4 monkey wrenches.              |
| 11 8 in. sleeves (clamp). | 1 pair blacksmith tongs.        |
| 1 8 in. solid sleeve.     | 2 ratchet drillers and 6 drills |
| 7 6 in. sleeves (clamp).  | 2 drill machines and tools.     |

2 6 in. solid sleeves.	1 chain pulley.
1 4 in. solid sleeve.	1 machine hammer.
1 6 inch cap.	1 nail hammer.
1 iron rake.	2 iron wedges.
1 cap and stop-cock for hydrant.	1 draw knife.
1 lot meter packings.	1 lot of old picks.
7 torches.	3 pole derricks and 3 poles.
1 bench block.	6 cold chisels for cast-iron.
1 foot-lathe and tools.	2 mauls.
1 hydrant brush.	1 tool chest.
1 pair tongs for hydrant.	2 screw drivers.
5 spoons for drilling.	5 mortise chisels.
9 hydrant boxes.	10 molding tools.
15 hydrant rods.	1 ladder.
3 paint pails.	150 3-4 inch bolts.
2 chains.	1 long and short jointer.
1-2 cord wood.	1 set derrick irons.
4 large paint brushes.	60 1-2 inch bolts.
1 painter's dust brush.	1 die wrench.
1 stop-cock punch.	2 hydrant packing wrenches.
1 meter tank with gauge.	5 cans of Royal Enamel.
11 pounds hemp packing.	1 anvil.
1 shop desk.	1 anvil stake and chisel.
1 iron sink.	1 pair stone hooks.
2 gross No. 9 screws.	1 stone chain.
1 hose nozzle.	1 lot coal.
	2 wedges.

## METERS.

2 5-8 in. Union rotary.	1 3-4 in. Desper.
2 3 4 in. Union rotary.	1 3-4 in. Worthington.
5 5-8 in. Union piston.	9 5-8 in. Gem.
6 3-4 in. Union piston.	1 3-4 in. Gem.
2 1 in. Desper.	

## INVENTORY OF FURNITURE, ETC., IN OFFICE.

6 drawing boards.	1 book-case.
1 wardrobe.	1 table.
1 copying press.	1 12 in. pressure-gauge.
1 roll tracing paper.	1 6 in. pressure-gauge.
1 drawing table.	1 bill stamp.
1 library desk.	3 inkstands.
2 waste baskets.	1 lot drawings.
1 six-foot pole.	1 plan Massabesic lake.
3 stools.	1 safe.
1 duster.	1 pair scissors.
1 map of city.	1 cork-screw.
1 map of city, framed.	1 bottle ink.
1 map of New Hampshire.	1 case drawers.
1 roll mounted paper.	1 stove.
2 quires drawing paper.	2 erasers.
1 lot of book paper.	1 lot reports.
1 lot of fuel.	1 directory.

## INVENTORY OF TOOLS AT THE PUMPING STATION.

1 scoop-shovel.	2 axes.
4 common shovels.	4 oil cans.
1 desk.	2 oil tanks.
1 one-inch auger.	25 pounds waste.
5 lanterns.	12 pounds tallow.
3 monkey-wrenches.	50 pounds black lead.
1 square.	5 cords wood.
1 plumb square.	18 tons coal.
1 sprinkler-pot.	2 ice chisels.
1 clock.	2 cold chisels.
1 washer cutter.	2 wood chisels.
2 planes.	2 hammers.
2 thermometers.	3 drip pans.

- 4 crow-bars.  
 1 bellows and anvil.  
 2 pipe wrenches.  
 1 window brush.  
 1 gate wrench.  
 1 long key.  
 1 hydrant wrench.  
 1 wheelbarrow.  
 1 five-pail kettle.  
 3 picks.  
 1 clothes drier.  
 2 ladders.  
 2 stoves.  
 2 coal hods.  
 1 coal sifter.  
 2 gallons sperm oil.  
 1 bench  
 2 levels.  
 1 waste press.  
 1 Scotch driller.  
 2 nozzles.  
 1 pair shears.  
 1 pair pliers.  
 1 wire cutter.  
 1 boat.  
 1 set steps.  
 1-2 barrel oil.  
 1 jack screw.  
 1 brace and six bits.  
 1 trowel.  
 2 wood saws.  
 2 hand saws.  
 1 iron slush bucket.
- 6 pounds hemp packing.  
 1 draw shave.  
 2 screw plates, taps and dies  
 1 vise.  
 200 feet 7-8 in. hose.  
 100 feet 3-4 in. hose.  
 1 iron rake.  
 2 set dog chains.  
 1 set blacksmith's tools.  
 1 bushel basket.  
 2 pieces Scotch sewer pipe.  
 1 force pump.  
 1 bill hook.  
 1 clevis and pin.  
 1 harrow.  
 1 timber roll.  
 4 sprinkling pots.  
 1 lot lumber.  
 1 lot old iron.  
 3 oil barrels.  
 4 mortar hoes.  
 1 iron shovel.  
 150 feet hose.  
 1 No. 5 plow.  
 3 grub hoes.  
 3 bush scythes and snaths.  
 2 axes.  
 1 bellows.  
 4 water-pails.  
 10 mason hods.  
 1 lot of old wheelbarrows.  
 1 lot of old shovels.  
 1 20-inch gate.

1 socket wrench.	1 set blocks and fall.
6 fork wrenches.	1 bench brush.
2 screen rakes.	1 broom brush.
1 10 in. arbor for babbitting.	1 broom.
1 flash-board hook.	



REPORT

OF THE

TRUSTEES OF THE CITY LIBRARY.



ANNUAL REPORT  
OF THE  
TRUSTEES OF THE CITY LIBRARY.

---

*To the City Councils of the City of Manchester:—*

The Trustees of the City Library herewith submit their twenty-eighth annual report of the affairs and condition of the library, and, with it, the report made to them by the treasurer of the board, showing the expenditures made for books and periodicals, and also the report of the librarian, which shows in detail the operation of the library during the past year, and the condition of the library and other property under her charge at the close of the year.

From the report of the treasurer, it appears that during the year there has been expended for the purchase of books the sum of eight hundred forty-two dollars and twenty-four cents, and for the purchase of periodicals the sum of one hundred sixty-two dollars and twenty-five cents, being a total expenditure, for these two purposes, of one thousand four dollars and forty-nine cents, and leaving a balance in the hands of the treasurer at the close of the year of seven hundred sixty-seven dollars and thirty-nine cents. Besides the usual appropriation from the city, the treasurer has received from the librarian, on account of fines collected from persons failing to comply with the

regulations of the library in regard to the return of books, the sum of twenty dollars and twenty-eight cents, and the further sum of twenty-five dollars and ninety-seven cents, received from sale of catalogues and in payment of books that had been lost. The balance above indicated, together with the accumulated income of the Dean fund, which now amounts to the sum of three thousand eighty-two dollars and eleven cents, constitutes the funds in the hands of the trustees at the end of the fiscal year, applicable for the purchase of books for the increase of the library.

The report of the librarian shows that the library has been open to the public two hundred and fifty days, and for the delivery of books two hundred and thirty-six days, during which latter time the number of books in circulation has been thirty-eight thousand one hundred and twenty-two. In addition to this number delivered for general circulation, four thousand nine hundred and sixteen books and magazines have been used at the reading-room at the library, making the total number delivered during the year forty-three thousand and thirty-eight. The circulation of books for the past year has been considerably less than that of several previous years, the decrease being due to the fact that the trustees were compelled to close the library while the work upon the addition to the library building was in progress. The library was closed on the eighth of October, and remained closed till the end of the year.

The number of volumes in the library at the date of the last report was twenty-four thousand three hundred and seventy-six. There have been added during the year, by purchase, three hundred and forty volumes; by donation, two hundred and fifty-three volumes; and seventy-one volumes of periodicals have been bound, making the number of bound volumes now in the library twenty-three thousand three hundred and seventy-four, and the total number,

including maps and pamphlets, twenty-five thousand and forty volumes.

Fifty-three different periodicals have been regularly received at the library during the year; and, as fast as the volumes have been completed, they have been bound and placed upon the shelves for general circulation.

Sixty-five volumes have been withdrawn from circulation during the year, having become so worn and defaced by constant use as to be no longer fit for service.

A list of the books presented to this library during the year will be found annexed to the report of the librarian; and to those who have so substantially manifested their interest in the prosperity of the library and aided in its increase, the trustees, in behalf of the city, tender their thanks.

The expenditures for the incidental charges of the library for the year have been sixteen hundred ninety-five dollars and forty-eight cents. The details of these expenditures, the bills for which have been paid by the city treasurer, may be found at length in the annual report of the city. The balance of three hundred thirty-four dollars and fifty-one cents of cash on hand at the close of the year, is due in part to the fact that the supply of fuel for the year ensuing has not yet been purchased on account of contemplated changes in the construction of the present coal-bins.

Mention was made in the last report of the trustees, that the committee on lands and buildings, in conjunction with the trustees of the library, were authorized to procure plans and estimates for an addition to the library building. During the early part of the year, a plan for said addition, prepared by A. G. Stevens, Esq., in accordance with the instructions of such committee, was adopted. The city councils, without delay, voted to build the proposed addition according to the plan that had been adopted, and authorized the same committee to contract with competent

persons for its erection. Proposals were invited through advertisements in the daily papers, and the contract finally awarded to Wilberforce Ireland, Esq. Shortly after work was commenced upon the building, the trustees, in order to preserve the property and books in the library from loss or damage, were compelled to close the library, and it has not yet been reöpened. The trustees regret that the public have for so long a period been deprived of the use and advantages of the library, but hope that the increased facilities that will accrue when the addition is finished, will more than compensate for the temporary deprivation.

The work upon the addition has now so far advanced that the library will be again opened for the delivery of books at an early day.

The vacancy caused by the resignation of Mr. Fred C. Foote, the assistant to the librarian, has been filled by the trustees, by the appointment of Mr. George W. Cook, who entered upon the discharge of his duties in the early part of the year.

Mrs. M. J. Buncher, the efficient librarian, has continued to discharge the duties pertaining to her office with fidelity and to the approval of the board, and, so far as we are aware, to the satisfaction of the public.

January 20, 1882.

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.

H. B. PUTNAM, *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 report of the receipts and expenditures by the board of the funds received by them on account of the City Library:—

1881.			DR.
Jan.	1.	To balance of appropriation, etc., as per last report . . . . .	\$725 63
March	18.	cash of Mrs. M. J. Buncher for fines . . . . .	20 28
		cash of Mrs. M. J. Buncher, catalogues, etc. . . . .	25 97
July	6.	appropriation for 1881 for purchase of books . . . . .	1,000 00
Jan.	1.	balance of income of Dean fund . \$2,642 67	
		income of Dean fund . . . . .	153 00
July	1.	income of Dean fund . . . . .	153 00
		interest on accumulation of income . . . . .	73 84
		interest on accumulation of income . . . . .	59 60
			\$3,082 11
			\$4,853 99

1881.		CR.
Jan.	11.	Paid N. E. News Co., periodicals . . . \$14 43
	22.	Lee & Shepard, books . . . 54 79
Feb.	8.	N. E. News Co., periodicals . . . 13 18
	14.	George W. Wing, books . . . 36 50
	18.	Lee & Shepard, books . . . 136 10
	24.	Lee & Shepard, books . . . 86 48
March	4.	N. E. News Co., periodicals . . . 11 39
	8.	Lee & Shepard, books . . . 30 37
	18.	Geo. H. Polley & Co., periodicals . . . 12 00
April	8.	N. E. News Co., periodicals . . . 10 49
May	5.	N. E. News Co., periodicals . . . 12 01
	12.	Lee & Shepard, books . . . 89 02
	21.	Lee & Shepard, books . . . 32 81
June	3.	N. E. News Co., periodicals . . . 13 41
	6.	Geo. H. Polley & Co., books . . . 20 00
	13.	Boston Society Nat. History . . . 10 00
	29.	H. H. Everett, books . . . 8 33
July	7.	N. E. News Co., periodicals . . . 9 57
Aug.	2.	Lee & Shepard, books . . . 61 46
	10.	N. E. News Co., periodicals . . . 12 98
Sept.	6.	N. E. News Co., periodicals . . . 11 25
Oct.	4.	George H. Hubbard, books . . . 1 00
	5.	N. E. News Co., periodicals . . . 9 29
Nov.	8.	N. E. News Co., periodicals . . . 11 69
	15.	Geo. H. Polley & Co., books . . . 190 00
Dec.	6.	N. E. News Co., periodicals . . . 10 56
	9.	Lee & Shepard, books . . . 95 38
	31.	By balance of appropriation . . . 767 39
		income of Dean fund . . . 3,082 11
		\$4,853 99



The expenditures for incidental expenses of the library for the year ending December 31, 1881, the items of which will be found in detail in the annual report of the city, are as follows :—

Services of librarian . . . . .	\$600 00
Services of assistant librarian . . . . .	235 50
Gas . . . . .	218 18
Binding . . . . .	82 44
Rebinding . . . . .	128 90
Insurance . . . . .	32 50
Fuel . . . . .	221 04
Water . . . . .	5 00
Printing and advertising . . . . .	97 24
Incidentals . . . . .	74 68
	<hr/>
	\$1,695 48

RECAPITULATION.

Balance Dec. 31, 1880 . . . . .	\$29 99
Appropriation for 1881 . . . . .	3,000 00
	<hr/>
	\$3,029 99
Paid trustees for purchase of books \$1,000 00	
Incidental expenses . . . . .	1,695 48
Balance Dec. 31, 1881 . . . . .	334 51
	<hr/>
	\$3,029 99

Respectfully submitted.

N. P. HUNT,  
*Treasurer of Trustees of City Library.*

December 31, 1881.

We have examined the above report, and find the same correctly cast and properly vouched.

H. B. PUTNAM,

WM. P. NEWELL,

*Committee on Accounts of City Library.*

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December 31, 1881.

I certify that I have examined the several items of receipts and expenditures embraced in the foregoing report of the treasurer of the trustees of the City Library, and find the same correctly cast and properly vouched.

NATHAN P. KIDDER,

*City Auditor.*

## LIBRARIAN'S REPORT.

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*Gentlemen of the Board of Trustees : —*

I respectfully submit to you the annual report of the condition of the library during the year ending December 31, 1881.

Whole number of volumes Dec. 31, 1880 . . . . .	24,376
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Accessions during the year : —

By purchase . . . . .	340
Donated . . . . .	253
Periodicals bound . . . . .	71
	664

664

Whole number of volumes at present : —

Maps . . . . .	16
Pamphlets . . . . .	1,650
Bound volumes . . . . .	23,374
	25,040

25,040

Number of periodicals and papers regularly received . . . . .	53
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53

Number of days open to the public . . . . .	250
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250

Days open for delivery of books . . . . .	236
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236

Volumes in circulation during the time . . . . .	38,122
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38,122

Average per day . . . . .	161.53
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161.53

Largest number any one day, March 5 . . . . .	460
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460

Whole number of books, magazines, etc., used in the library . . . . .	4,916
Average per day . . . . .	19.7
Number of guarantees received . . . . .	843
Whole number received since the new registra- tion, July 31, 1880 . . . . .	2,497
Number of persons using books on deposit . . . . .	9
Postals sent for books overdue . . . . .	380
Number of worn-out books, and taken from the shelves . . . . .	65
Replaced books . . . . .	8
Number of books repaired at bindery . . . . .	439
Repaired and covered in the library . . . . .	4,072
Balance of fines on hand Dec. 31, 1880 . . . . .	\$20 28
Amount received from Jan. 1 to Dec. 31, 1881 . . . . .	59 30
	<hr/>
	\$79 58

Amount paid for express, station- ery, and other incidental ex- penses . . . . .	\$45 48	
Paid N. P. Hunt, treasurer . . . . .	20 28	
	<hr/>	\$65 76
		<hr/>
Balance of fines on hand Dec. 31, 1881 . . . . .		\$13 82

Balance of cash on hand Dec. 31, 1880, for cata- logues sold and books lost, and waste paper	\$37 70
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Amount received from Jan. 1 to Dec. 31, 1881 :

For 3 new catalogues at \$1.00 . . . . .	\$3 00
For 11 new catalogues at 75 cents . . . . .	8 25

For 2 old catalogues at 35 cents . . . . .	\$0 70	
For 3 lost books . . . . .	2 50	
	—	\$14 45
		—
		\$52 15
Paid N. P. Hunt, treasurer . . . . .		37 70
		—
		\$14 45
Balance received for fines . . . . .		13 82
		—
Total balance on hand Dec. 31, 1881 . . . . .		\$28 27

It will be observed that the foregoing report shows a considerable decrease in the circulation of books the past year, but the cause must be generally understood, not only by the members of the board, but also by the public. The first six months of the year was in advance of any preceding six months, showing a circulation of 26,920 books, but the disturbed condition of the library the last half of the year (being closed on the 8th of October for repairs) explains the reduction in figures. The same will be seen in the use of the reading-room. There are other causes that might be mentioned for this decrease, viz.: the increased number visiting the reading-rooms of the Y. M. C. Association, or, as has been suggested by the librarian of a neighboring city for the same condition, "the improvement in business giving employment to many who would otherwise spend their time in these resorts."

Of the missing books of last year (1880), six have been returned, one lost, paid for. Three of the missing books, at the examination in 1879, have come in, and one lost, paid for. At the present examination there are but eight books missing, viz.: one history, one travels (French), one art, four fiction, and one juvenile; one book lost, and paid for

by the guarantor. The number of missing books for the past year is much smaller than at any annual examination since I have been in charge, and proves very conclusively the improvement of the new system of delivery over the old.

The number of books repaired at bindery is in excess of previous years. They were mostly juvenile books, fiction, and travels, in constant use. The largest proportion of them were old books, but many of the new ones are so poorly bound that they require repairing before the covers are hardly soiled, and it seems better economy to repair them before the loose leaves are allowed to slip out and render the books as useless as worn-out ones.

In closing, I desire to express my belief, that, notwithstanding the interruptions, the year just closed shows as steady an increase in interest and real progress as any preceding it; and I do cordially express my appreciation of the faithful and efficient services of my assistant, George W. Cook, and my grateful acknowledgments to the treasurer of the Board of Trustees for his kind and considerate assistance.

Respectfully,

M. J. BUNCHER,

*Librarian.*

## DONATIONS TO THE CITY LIBRARY

FROM JANUARY 1, 1881, TO DECEMBER 31, 1881.

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HON. MOODY CURRIER, Manchester, N. H.

Thirty-nine volumes, viz. : —

Six volumes of Neander's History of the Christian Religion. Translated from the German by Joseph Torrey, Professor of Moral and Intellectual Philosophy in the University of Vermont.

Fourteen volumes of the Works of St. Augustine. A new translation, comprising, viz. : —

The City of God.

Writings in connection with the Donatist Controversy.

The Anti-Pelagian Works of St. Augustine.

Writings in connection with the Manichæan Heresy.

Letters of St. Augustine.

On the Trinity.

Harmony of the Evangelists, and the Sermon on the Mount.

On Christian Doctrine. The Euchiridion.

On Catechising, and on Faith and the Creed.

Lectures or Tractates on the Gospel of St. John.

Nineteen volumes of the Ante-Nicene Christian Library, comprising, viz. : —

The Apostolic Fathers.

Tatian, Theophilus, and the Clementine Recognitions.

- The Refutations of all Heresies. By Hippolytus.  
 The Five Books of Tertullianus against Marcion.  
 The Writings of Irenæus.  
 The Writings of Origen.  
 The Writings of Tertullian.  
 The Writings of Clement of Alexandria.  
 The Writings of Methodius, Alexander of Lycopolis,  
 and Peter of Alexandria, etc.  
 Apocryphal Gospels. Acts and Revelations.  
 The Clementine Homilies. The Apostolical Constitution.  
 The Seven Books of Arnobius Adversus Gentes.  
 The Works of Gregory Thaumaturgus, Dionysius of  
 Alexandria, and Archelaus.  
 The Works of Lactantius, together with the Testaments of the Twelve Patriarchs, and Fragments of the Second and Third Centuries.  
 Liturgies and other Documents of the Ante-Nicene Period.

MRS. HERMAN FOSTER, Manchester, N. H.

Seventeen volumes of bound newspapers, viz. :—

Nine volumes of the Independent Chronicle and Boston Patriot (semi-weekly), from the year 1826 to July 31, 1839.

Three volumes of the Boston Courier (semi-weekly), from July 20, 1835, to February 18, 1841.

Five volumes of the semi-weekly Advertiser, Independent Chronicle, Boston Patriot, Columbian Sentinel, New England Palladium, and Commercial Gazette, united, from June 10, 1840, to December 29, 1849.

GEORGE W. RIDDLE, ESQ., Manchester, N. H.

Sixteen bound volumes of State Reports on Agriculture, Horticulture, etc., viz. :



Transactions of the Michigan State Agricultural Society, with Reports of County Agricultural Societies, for the years 1849, 1850, 1851, 1853, and 1854.

Transactions of the Illinois State Agricultural Society, with Reports from County Agricultural Societies and kindred Associations, for the years 1867-68.

Transactions of the Agricultural Societies of Massachusetts for the year 1848.

Seventh Annual Report of the Board of Agriculture of the State of Ohio for the year 1852.

First and Second Annual Report of the Indiana State Board of Agriculture for the years 1852-53.

Transactions of the Massachusetts Horticultural Society for the years 1877-78.

Transactions of the New England Society. First Annual Exhibition at Springfield, Mass., Sept. 6, 7, 8, and 9, 1864, with address from Gov. John A. Andrew of Mass.

Transactions of the Vermont Dairymen's Association in 1869-70.

Proceedings of the Third Session of the American Pomological Society, and Fifth Meeting of this National Association held on the 13th, 14th, and 15th of Sept., 1854.

Centennial edition of the Fourth Annual Report of the State Board of Agriculture to the Legislature of the State of Kansas for the year 1875.

In addition to the above sixteen volumes are twenty-five bound volumes, duplicates, and two hundred pamphlets not yet selected.

LITTLE, BROWN, & Co., Publishers, Boston.

Public Hygiene in America. By Henry I. Bowditch, M. D. 12mo.

D. APPLETON & Co., New York, Publishers.

Progress and Poverty. By Henry George. 1881. 12mo.

UNKNOWN SOURCE.

The Credit Mobilier of America. Its Origin and History. 1881. 12mo.

SAMPSON, DAVENPORT, & Co., Boston, Publishers.

Manchester Directory for 1880. 8vo.

W. HERON, JR., Manchester, N. H.

Gaskell's Compendium of Forms. 4to.

REV. C. W. WALLACE, Manchester, N. H.

The Centennial Celebration of the Settlement of Bangor, Me. 1869. 8vo.

NEW JERSEY STATE LIBRARY.

New Jersey Archives. First series, Vol. 1, 1631-1687.

Vol. 2, 1687-1703. 8vo.

H. B. PUTNAM, Mayor, Manchester, N. H.

Sixty-Third Annual Report of the Trustees of the New York State Library for the year 1880. 8vo.

J. W. PATTERSON, Superintendent of Public Instruction.

Thirty-Fifth Annual Report upon the Public Schools of New Hampshire, June session, 1881. 8vo.

UNKNOWN SOURCE.

A General Index to the Contents of Fourteen Popular Treatises on Natural Philosophy. 8vo.

J. W. UNDERHILL, President of the Board of Education.

Fifty-First Annual Report of the Common Schools of Cincinnati, Ohio. 1880. 8vo.

JOSEPH B. WALKER, Concord, N. H.

A Memorial Sketch of the Life and Character of Ezekiel Webster Diamond, late Professor of General and Agricultural Chemistry in the New Hampshire College of Agriculture. 1877. Pamphlet.

COBDEN CLUB, London, England.

History of the Free Trade Movement in England.

By Augustus Mongredien. 16mo.

Free Trade and Tariffs. By John Flagg, M. P.  
Pamphlet.

Imports, Exports, and the French Treaty. By J. R.  
Cross, Esq., M. P. Pamphlet.

The French Treaty and Reciprocity. By Right Hon.  
Joseph Chamberlain, M. P. Pamphlet.

The Reciprocity Craze. By George W. Medley.  
Pamphlet.

J. P. WHITNEY, Buffalo, N. Y.

California and Colonization. 1879. Pamphlet.

C. F. LIVINGSTON, Esq., Manchester, N. H.

Proceedings of the Twelfth and Thirteenth Annual  
Meetings of the New Hampshire Press Association,  
held at Concord, N. H., January 17, 1879, and Jan-  
uary 19, 1880.

Daily Springfield Republican for the year 1877.

THE HISTORICAL ASSOCIATION, Lowell, Mass.

Contributions of the Old Residents of that City. Vol.  
II., No. 1. 1880. Pamphlet.

HON. HARRY BINGHAM, Littleton, N. H.

The Centennial Address, delivered at Littleton, N. H.,  
July 4, 1876. Pamphlet.

Memorial Day Address, delivered before Marshall  
Sanders Post, No. 48 G. A. R., Littleton, N. H.,  
May 31, 1880. Pamphlet.

An Address delivered before the Alumni of Dartmouth  
College, Hanover, N. H., June 23, 1880.

THOMAS H DODGE, Esq., Worcester, Mass.

The Jubilee Sabbath of Piedmont Church, Wor-  
cester, June 5, 1881.

FREDERICK H. HEDGE, Jr., Librarian.

Ninth Annual Report of the Board of Trustees and Librarian of the Free Public Library, Lawrence, Mass., for the year 1880. Pamphlet.

Bulletins 30, 31, 32, and 33 of the Lawrence Public Library.

MISS MARY A. BEAN, Librarian.

Twenty-fourth Annual Report of the Trustees and Librarian of the Public Library, Brookline, Mass., for the year 1880. Pamphlet.

MISS CARRIE WORTHEN, Librarian.

Tenth Annual Report of the Trustees of the Public Library of Melrose, Mass., for the year 1880.

FROM THE SEVERAL LIBRARIANS OR BOARDS OF TRUSTEES.

Twenty-first Annual Report of the Directors of the Free Public Library, Worcester, Mass., for 1880.

Eleventh Annual Catalogue of the Worcester County Free Institute of Industrial Science for 1881. Pamphlet.

Third Report of the Librarian of the Public Library, Providence, R. I. for the year 1880. Pamphlet.

Annual Report of the Public Library, Fall River, Mass., for the year 1880. Pamphlet.

Twenty-fourth Annual Report of the Committee and Librarian of the Public Library, Woburn, Mass., March 1, 1881, and Bulletin of Accessions for 1880.

Annual Report of the Trustees of the Free Library, Newton, Mass., for the year 1880.

Annual Reports of the Directors of the City Library of the City of Lowell, Mass., for the years 1879-80.

Seventh Annual Report of the Directors of the Bigelow Free Library, Clinton, Mass., for the year 1880. Pamphlet.

- Third Supplement to Catalogue of the Bigelow Free Library, Clinton, Mass. 1880. Pamphlet.
- Annual Report of the Town Officers of Peterborough, N. H., for the year 1880. Pamphlet.
- Third Annual Report of the Trustees of the Public Library of the City of Milwaukee, for the year ending Oct. 1, 1880; and Fourth Annual Report, ending Oct. 1, 1881. Pamphlet.
- Ninth Annual Report of the Board of Directors of the Chicago Public Library for the year ending June, 1881. Pamphlet.
- Fourteenth Annual Report of the Provost to the Trustees of the Peabody Institute, Baltimore, Md. 1881. Pamphlet.
- Sixteenth Annual Report of the Board of Directors of the Mercantile Library Association, City of New York. April, 1881. Pamphlet.
- Thirty-second Annual Report of the Trustees of the Astor Library, City of New York. Jan., 1881. Pamphlet.
- Twenty-eighth Annual Report of the Mercantile Library Association of San Francisco, Cal., for 1880.
- Twenty-eighth Annual Report of the Council of the City of Manchester, England, on the Working of the Public Free Libraries. 1879-80. Pamphlet.
- Twenty-ninth Report for 1880-81. Pamphlet.
- Twenty-ninth Annual Report of the Boston Public Library for the year ending April 30, 1881; and Bulletins 9, 10, 11, and 12, Vol. IV., 1881.
- Bulletins of the Library Company, Philadelphia. New Series. No. 7. Pamphlet.
- Bulletins Nos. 12 and 13 of the Public School Library, St. Louis, Mo. 1880-81. Pamphlet.
- Annual Report of the School Committee of the Town of Peabody, Mass., for the year 1880. Pamphlet.

## BOROUGH OF SWANSEA, Wales.

Sixth Annual Report of the Public Library Association. 1879-70. Pamphlet.

Seventh Annual Report of the Public Library and Gallery of Art. 1880-81. Pamphlet.

## E. M. BOWMAN, City Clerk, Nashua.

Twenty-eighth Annual Report of the Municipal Government of the City of Nashua, N. H., for the year 1880.

## HON. JAMES F. BRIGGS, M. C.

Report of the Silver Commission. Vol. I. 1876. 8vo.

Report of Agriculture for the year 1879. 8vo.

The American Ephemeris and Nautical Almanac for the year 1884. First Edition. 8vo.

## UNITED STATES CONGRESS.

Eighty-five volumes of Public Documents.

## DEPARTMENTS, Washington, D. C.

Annual Report of Commissioner of Patents for the years 1879 and 1880. 8vo.

Finance Report for 1880. 8vo.

United States Coast Survey for 1877. 4to.

Annual Report of the U. S. Life-Saving Service for 1880. 8vo.

Alphabetical List of Patentees and Inventions, July to December, inclusive, 1880 ; January to June, inclusive, 1881.

United States Geological and Geographical Survey of the Territories (F. V. Hayden, Geologist-in-Charge), containing History of the North American Pinnipeds. 8vo.

Second Report of the United States Entomological Commission for the years 1878-79. Relating to the Rocky Mountain Locust and the Western Cricket. 8vo.

Bulletin No. 6 of the U. S. Entomological Commission. Report of the United States Geological Survey of the Territories, F. V. Hayden, Geologist-in-Charge. Vol. XII. Containing the History of the Water Rhizopods of North America. By Prof. Leidy, M. D. 4to. 1879.

Bulletin 4 of Vol. V., 1879, and 1 and 2 of Vol. VI., 1880, of the United States Geological and Geographical Survey of the Territories.

**BUREAU OF EDUCATION.**

Report of the Commissioner of Education for the year 1879. 8vo.

Circulars of Information, Nos. 4, 5, 6, and 7 of 1880, and Nos. 1, 2, and 3, 1881.

Also pamphlets,—

Literary Aids, The Discipline of the School, Education and Crime, etc.

**SMITHSONIAN INSTITUTE.**

Bureau of Ethnology, J. W. Powell, Director. Introduction to the Study of Indian Languages. With Words, Phrases, and Sentences to be Collected. By J. W. Powell. 1880. 4to.

Annual Report of the Smithsonian Institute for the year 1879. 8vo.

Volume 23 of Contributions to Knowledge. 4to.

Volumes 18, 19, 20, and 21 of Miscellaneous Collections.





REPORT  
OF THE  
SCHOOL COMMITTEE.



# SCHOOL DEPARTMENT.

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## ORGANIZATION FOR 1881.

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### SCHOOL COMMITTEE.

HORACE B. PUTNAM, Mayor, *ex-officio* Chairman.

WILLIAM J. HOYT,

President of the Common Council, *ex officio*.

Ward 1.— Charles F. Everett, 54 Stark corporation.  
Frank T. E. Richardson, 49 M. S. B.

Ward 2.— Benjamin C. Dean, Myrtle street, cor. Ash.  
Gerherdus L. Demarest, 54 Blodget street.

Ward 3.— Daniel Clark, Lowell street, cor. Pine.  
William A. Webster, 581 Union street.

Ward 4.— Walter M. Parker, Hanover, cor. Chestnut.  
John T. Fanning, 360 Manchester street.

Ward 5.— Denis F. O'Connor, 173 Central street.  
Charles A. O'Connor, Chandler House.

Ward 6.— Abial C. Flanders, 308 Park street.  
Brackett B. Weeks, 382 Central street.

Ward 7.— Marshall P. Hall, 54 Amoskeag corporation.  
Ezra Huntington, 13 M. P. W. corporation.

Ward 8.— Louis E. Phelps, 220 Granite street (P.).  
Douglas Mitchell, 220 Granite street (P.).

CLERK OF SCHOOL COMMITTEE.

MARSHALL P. HALL.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

STANDING COMMITTEES.

*Finance. Accounts. and Claims.*—The Mayor, Messrs. Huntington, Hoyt, Fanning, Hall, Parker, Mitchell.

*Salaries.*—Messrs. Phelps, Clark, Webster, Weeks, Huntington.

*Repairs. Furniture. and Supplies.*—Messrs. Flanders, Dean, Fanning, D. F. O'Connor, Parker.

*Fuel and Heating.*—Messrs. Huntington, the Mayor, Fanning, Flanders, Phelps, Clark, Hoyt.

*Examination of Teachers.*—Messrs. Webster, Clark, Parker, Dean, C. A. O'Connor.

*Text-Books and Apparatus.*—Messrs. Dean, C. A. O'Connor, Weeks, Demarest, Clark.

*Employment of Children and Truancy.*—Messrs. Mitchell, Webster, Everett, Richardson, Demarest.

*Music.*—Messrs. Richardson, D. F. O'Connor, Weeks, Flanders, Mitchell.

*Drawing.*—Messrs. Hall, Mitchell, Demarest, Phelps, Fanning.

*Non-Resident Pupils.*—Messrs. Weeks, Everett, Flanders, D. F. O'Connor, Richardson.

*Course of Study.*—Messrs. Demarest, Hall, Webster, C. A. O'Connor, Parker.

*Sanitary.*—Messrs. Webster, Clark, Dean, Demarest, Fanning.

## SUB-COMMITTEES.

*High School.*—Messrs. Clark, Dean, Parker, C. A. O'Connor, Hall, Webster, Demarest.

*Ash Street.*—Messrs. Dean, Webster, Demarest, Phelps, C. A. O'Connor.

*Lincoln Street.*—Messrs. Demarest, Flanders, Weeks, Fanning, Clark.

*Spring Street.*—Messrs. Everett, Parker, Flanders, Huntington, Demarest.

*Franklin Street.*—Messrs. Huntington, Hall, Phelps, Clark, Richardson.

*Lowell Street.*—Messrs. Webster, C. A. O'Connor, Mitchell, Everett, Fanning.

*Manchester Street.*—Messrs. C. A. O'Connor, Weeks, Dean, D. F. O'Connor, Everett.

*Wilson Hill and Bridge Street.*—Messrs. Parker, Fanning, Weeks, Phelps, Flanders.

*Training School.*—Messrs. Hall, Clark, Dean, Huntington, D. F. O'Connor.

*Beech Street.*—Messrs. Webster, D. F. O'Connor, Richardson, Hall, Mitchell.

*Piscataquog Grammar.*—Messrs. Phelps, Mitchell, D. F. O'Connor, Weeks, Huntington.

*Center Street and South Main Street*—Messrs. Mitchell, Phelps, Demarest, Flanders, Fanning.

*Amoskeag, Blodget Street, and Stark District.*—Messrs. Richardson, Everett, Parker, Mitchell, Dean.

*Bakersville and Hallsville.*—Messrs. Flanders, Hall, Webster, C. A. O'Connor, Phelps.

*Goffe's Falls and Harvey District.*—Messrs. Weeks, Clark, D. F. O'Connor, Fanning, Richardson.

*Mosquito Pond, Webster's Mills, and Youngsville.*—Messrs. Fanning, Richardson, Everett, Parker, Webster.

*Evening Schools.*—Messrs. D. F. O'Connor, Huntington, Flanders, Demarest, Hall.

IN BOARD OF SCHOOL COMMITTEE,  
January 6, 1882.

The Superintendent read his annual report to the School Committee.

*Voted*, That the report be accepted.

The Clerk read the annual report which he had prepared at the request of the Board.

*Voted*, That the report 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.

Attest :

M. P. HALL, *Clerk*.

REPORT  
OF THE  
SCHOOL COMMITTEE.

---

*To the City Councils, —*

GENTLEMEN :— The School Committee present their annual report for the year 1881.

The public schools have been in session one hundred and eighty-five days, or thirty-seven weeks of five days each. The number of schools at the beginning of the year was seventy-two ; at the close of the year, seventy,—one primary school on Spruce street, and another on Manchester street, having been closed at the beginning of the fall term, on account of the withdrawal of pupils to be placed in the French parochial schools. The number of teachers employed at the beginning of the year was seventy-six ; at the close of the year, seventy-four. Six teachers have resigned their places ; namely, Mrs. Mason, and Misses Green, Campbell, Stone, Chase, and Hubbard. They were all successful teachers and long in service, four of them having taught more than ten years each, in this city. The following-named new teachers have been appointed : Misses Webster, Gilford, Patten, James, and Gee. All of these except Miss Webster are graduates of the Training School.

The whole number of scholars enrolled in the day schools was 4,235. The average number belonging was 2,858. The average daily attendance was 2,602. The average percentage of attendance, 91. The whole number enrolled was only 99 more than in 1880. The average number belonging was 112 less, and the average attendance was 125 less. The falling off took place in the last term of the year, and was occasioned almost wholly by the closing of the schools before mentioned. At the close of the year the whole number belonging to the schools had probably been restored, more scholars having been placed in schools through the efforts of the truant officer than were withdrawn at the beginning of the fall term. There are four hundred or more children in the French schools; so that the total number in all the schools of the city, public and private, has probably been increased three hundred during the past year.

The usual promotions have been made from grade to grade. The number of pupils who completed the grammar-school course was sixty-two; number of these who passed into the High School, fifty-four; whole number admitted to the High, sixty-one; number of graduates from High School, thirty-nine. The largest average attendance in one room was forty-six, at Goffe's Falls; the smallest, five, in the Stark District. The average attendance at Webster's Mills was twelve, and at Mosquito Pond, fourteen. The Board would recommend that the two schools last named be consolidated; and the school at Stark District ought not to be continued longer with the present number of scholars.

A table giving the particulars of attendance in the several schools will be found at the end of this report.



## EVENING SCHOOLS

have been in session about the same number of months as usual. The attendance has been irregular, particularly at the Spring-street house, and rather unsatisfactory in its results. A large number of youth find their way into these schools who make no profitable use of their time. It has been suggested that a new plan be adopted which has been found successful in the city of Worcester. A small deposit of money is required as a guarantee of the faithful attendance and deportment of the pupil, to be returned at the end of the term.

The demand for more school room at the north end of the city is increasing. Plans for the erection of a

## NEW SCHOOL-HOUSE ON WEBSTER STREET

were adopted in the month of September, and the foundation of a building has been put in. The amount already expended, including the cost of the lot, is about four thousand seven hundred dollars. The following description of the proposed new building is furnished by Mr. Fanning the architect:—

“The complete plan of this school-building is arranged for eight school-rooms, to contain forty-eight desks in each room. The central section is forty-nine by fifty-eight feet on the ground, and contains four school-rooms, two on the first and two on the second floor, and four hat and cloak rooms, and teachers’ closets. On each side of the main building is a wing, thirty-six by forty-four feet in plan, two stories high, and containing a school-room on each floor, and the stairways. A basement extends under the entire building. It is proposed to build only the central section of the building and one set of stairways at present, but

arrange for the addition of the wings when they shall be required. The rooms in the central section of the building will be separated by a partition containing slides, so that they may be used together for general exercises, and these rooms have also more than the usual length to adapt them for assembly purposes, avoiding the necessity of an additional story for an assembly hall in the building. The clothes-rooms are placed on the same floors as the school-rooms, so as to avoid the use of stairs as far as possible. The arrangements for light, ventilation, and heating have been carefully studied, and it is believed that all the rooms will be convenient and cheerful. There will be two fronts to the building, facing Chestnut and Pine streets respectively. The facades, although plain, will be quite pleasing and imposing when the building is complete, with the addition of the wings."

The Board have recommended the selling of the house and lot at Bakersville, on account of the undesirable location, and the building of a new house on a larger and more eligible lot. They have also recommended the purchase of additional land adjoining the north Main-street lot in 'Squog. The increase of population on the west side of the river is greater than in any other section of the city. The Superintendent reports that more school room will be urgently needed there at the opening of the spring term. There has been no enlargement of school accommodations in that section of the city for many years. The Board hopes to see both of these plans accomplished.

#### VARIOUS REPAIRS

have been made upon the school-buildings, costing in the aggregate \$4,959.72. Of this amount, \$1,600 was spent for the extensive repairs upon the Lowell-street building, known as the old High-School house. The house has been

greatly improved. The crooked flights of stairs at the ends of the building were removed, and a broad hall and staircase placed in the center of the building, allowing the four school-rooms to receive light on three sides, and improving their ventilation. This building originally cost only \$2,700. After adding the cost of remodeling, it is still the least expensive, as well as the oldest, school-house in the city.

Valuable improvements have been made in the High-School building. The former unsightly privies have been replaced by water-closets with modern arrangements. The plumbing and carpentry cost \$974.57. New floors of Georgia pine have been laid in the Training-School building, and other repairs made, costing \$254. At Lincoln-street, alterations in the steam-heating apparatus, and repairs of the fence, cost \$126; at Franklin-street, repairs of stairs and changes in boiler, \$215.74; at Spring-street, gas-piping for evening schools, and repairs of water-closet, \$105.45. New fences at Manchester-street, \$142.75; Spruce-street, \$205; Blodget-street, \$85.90; north Main street, \$147. At South-Main-street, concrete walks, and repairs upon steps and shed, \$159.86; at Center-street, drain-pipes and painting, inside and out, \$250; Amoskeag, new fence, and introduction of city water, \$186.60; and minor repairs, costing less than \$100 each, on the following-named buildings: Ash-street, Goffe's Falls, Harvey District, Hallsville, Mosquito Pond, Stark District, Webster's Mills, and Wilson Hill. The committee on repairs have estimated that \$5,000 ought to be spent upon the buildings the coming year, to keep them in proper repair, and to make some needed changes. The roof of the High-School building needs extensive repairs. The basement of the Spring-street house should be excavated, in order that the steam-heating apparatus may be safely managed. The

outer wood-work upon several of the buildings is decaying, and needs paint to protect it from the weather.

The committee have recommended that the lecture hall at the High School be fitted with seats and desks, and used as a study-room. Recitations can then be carried on in the different rooms in the building, without interrupting study. Aside from the advantages of the change in the work of the school, the new sittings will conduce to the comfort and health of the pupils. The old seats are uncomfortably small and low for the use of the older pupils of the school.

#### COST OF THE SCHOOLS.

The expenditures of the School Committee for the year have been as follows:—

For instruction . . . . .	\$37,503 40
incidental expenses . . . . .	13,225 22
	<hr/>
	\$50,728 62

We close the year with an unexpended balance of \$2,739.75. A detailed statement of expenditures will be found appended to this report.

The expenses have been \$1,734.03 more than last year. Of this amount, \$874.80 was for teaching, and \$859.23 for incidentals. Additional teachers have been employed, and the cost for janitors' services and fuel has correspondingly increased.

The schools have been supplied with tables, blocks, and models, for object teaching and drawing, and a large amount of supplementary reading. These are permanent supplies, and their cost ought not to be reckoned in the running expenses of the schools, although it has largely increased the incidental expenses of the year.

The average cost per scholar, based upon the whole number enrolled, is \$11.98, against \$11.84 in 1880. It is

customary to base the cost per scholar upon the average number belonging to the schools. The large falling off in attendance in the last half of the year reduced the ratio of average number belonging to whole number enrolled much below that of last year, and the average cost upon this basis is therefore increased, being \$13.12 for teaching, and \$4.63 for incidentals, a total of \$17.75 per scholar, against \$16.49 for 1880. Several schools in the city proper and in the suburban districts have been very small. So long as we are obliged to support such schools as those at Mosquito Pond, Webster's Mills, and Stark District, paying full salaries for the instruction of from five to twelve scholars, the average cost will necessarily be high.

The total cost of public instruction in this city for the last year, including salaries of superintendent, committee, and truant officer, was \$54,125.12. The city has received its share of the state literary fund, amounting to \$1,870.50, and in tuition fees from non-resident pupils, \$296.80. Deducting this from the total expenses, we have \$51,957.82, as the net amount paid by the city for the support of the schools. This is two and eight-tenths mills upon each dollar of the assessed valuation. The average cost in one hundred and fifty-six cities and towns in the United States having seven thousand five hundred inhabitants and upwards, as shown by the last report of the Commissioner of Education at Washington, is six and four-tenths mills.

It has repeatedly been shown that the public-school expenses of Manchester are low, and have not increased with the growth of our population and the increase in cost of other departments of the city. Our teachers' salaries are lower, and our incidental expenses are less, than in most towns of the same population. The tax-payer who is disposed to charge the schools with extravagance should be reminded of these facts. It should be remembered, also, to

what extent the public-school tax is reduced on account of the large number of scholars in private schools. If all the children of the city were instructed at the public expense, as they have an undoubted right to be, the city would be obliged to hire fifty new teachers, build twelve new school-houses of four rooms each, at an expense of at least one hundred thousand dollars, and pay an increase of twenty-five thousand dollars in the annual running expenses of the schools.

The board have contemplated certain measures for the new year which might increase the expenses of the schools to the extent of one thousand dollars to fifteen hundred dollars. A new teacher is imperatively needed in the High School. Since the cutting off of an hour's time each day, it is impossible for the present corps of teachers to give thorough instruction in the time permitted for recitations. Even before the reduction in time, a great defect in the High School was lack of thoroughness, arising from the same cause.

The increase of appropriation for 1882, asked for by the committee to cover the increase of salaries and the pay of new teachers, is no more than the balance now on hand. The committee believe the recommendations they have made for the coming year to be necessary for the efficiency of the schools. They know the people desire the schools to be kept at the highest standard of usefulness, and will favor liberal appropriations for that purpose. At the annual election of teachers, the board voted a slight

#### INCREASE IN THE SALARIES

of all teachers except the following: the sub-master and first assistant at the High School, first assistants in grammar schools, the teacher at Goffe's Falls, and the special teachers in music and drawing.

This increase restores the salaries to about the same rates as paid before the reduction in 1877. They were cut down then because times were hard and the cost of living low. A reversal of these conditions is a valid reason for the increase. There are always men in the community who begrudge the teacher his wages. The school-grumbler, like the school-master, is always "abroad." He figures how much teachers get per hour and minute, until the habit becomes chronic. But with all his figuring he has never explained how good teachers can be hired in his own town for less wages than other towns are willing to pay; nor has he ever shown why teachers, whom he acknowledges ought to be as well prepared for their work as the lawyer or physician for theirs, must grow in usefulness and strive to excel, and yet not expect the reward given to success in other callings. Wisdom never grows old; and the quaint words written upon this subject by Roger Ascham, three hundred years ago, though often used in illustration, will bear repeating here. He said:—

“It is a pity, that commonly more care is had, yea, and that among very wise men, to find out rather a cunning man for their horse than a cunning man for their children. They say nay in word, but they do so in deed: for to one they will gladly give a stipend of two hundred crowns by the year, and loth to offer the other two hundred shillings. God that sitteth in Heaven, laugheth their choice to scorn, and rewardeth their liberality as it should: for he suffereth them to have tame and well ordered horses, but wild and unfortunate children, and, therefore, in the end they find more pleasure in their horse than comfort in their children.”

In the year just ended, several educational

MEASURES OF GENERAL INTEREST

were adopted, both in the State and city. Perhaps the most important of these was the amendment to the state law, regulating the employment of children, which went into effect January 1, 1882. All children of school age are now placed in four classes: First, those under ten years of age, who cannot be employed at all in any manufacturing establishment; second, those between ten and twelve, who may work in vacations only, and must attend school the whole time it is kept in the town where they live; third, those between twelve and fourteen, who may work six months, and must attend school six months; fourth, those between fourteen and sixteen, who may work nine months, and must attend school three months. In addition, every child under sixteen must now be able to read and write before obtaining employment, except in vacations. This intelligence test is a new feature in educational laws. New Hampshire being the second State in the Union to adopt it. The plain intent of the amendment is to apply some test of the practical value of the three months' or six months' schooling required by the other provisions of the law. In its spirit the law is no less wise than bold and progressive. If it were enforced, illiteracy would be extinguished in our manufacturing towns. It has serious defects, however. It fails to say that the reading and writing shall be in the English language.

Our French fellow-citizens insist that such an interpretation will work hardship to them by denying employment to their children who cannot speak English, although proficient in their own tongue. While the Board has interpreted the law to mean the English language, it is not supposed that it intends to deny employment to children who have had



no opportunity to learn the language. It would be absurd to apply the test unless the child had attended a reasonable time in some school where English was taught. Children who are so near the age of sixteen as to leave no time for learning English ought to be exempted. The French children are very quick, and in the public schools have usually learned to read and write English in a few months' time. Unless English was intended, the enactment of the law was unnecessary, because all children would learn to read and write that language if permitted to do so. And here arises another and more important consideration. The French people have established schools of their own. Naturally they wish to teach the French language. If the test of intelligence is to be in English, these schools will not answer the demand of the law. Is not this the real point at issue? Will it not have to be determined whether a school teaching French or any other foreign language exclusively, is a "private or public school" in the meaning of the law?

The statute requires attendance "in a school where instruction is given by a teacher competent to instruct in the branches taught in common schools." It would be a palpable violation of the spirit, if not the letter, of our school laws, to teach a foreign language exclusively in a public school; and when a system of private schools assumes the functions of the public schools, the same rule ought to apply. This Board gives one broad interpretation to this and to all our school laws, namely: that their object is to place the children of all nationalities upon the same footing; to break down all barriers between them; to help them to understand each other and the institutions and laws under which they live. In securing this great end there need be no misunderstandings. The subject has been referred to a special committee of this Board, who doubtless will report

a plan by which the law may be enforced without hardship, and still accomplish the desired good.

It would be better if the laws were so amended that all children between the ages of twelve and sixteen were regarded as one class and allowed to work half the time, and then, on attaining the age of sixteen, be required to pass the test of reading and writing.

The school reports of previous years have devoted much space to the matter of

#### TRUANCY.

At the beginning of the year the subject still forced itself upon the attention of the Board. The number of scholars growing up without schooling was rapidly increasing, and the task of enforcing attendance becoming more difficult. Twenty years ago, our people, with rare exceptions, gladly sent their children to school, and compulsory laws were unknown and unnecessary. Occasionally a scholar played truant. When the efforts of teacher and parents failed to keep him in school, he became a truant under the law, and as a last resort was arrested for the offense. Truancy of this kind was a criminal matter, and its management belonged to the police department. With the changes in our population, the matter has put on an aspect entirely new. Truancy *per se* has not increased, absenteeism has. Hundreds of parents among us are entirely indifferent to the education of their children. The child who is out of school because his parents do not or will not send him, is not a criminal. If he becomes a vagrant, or is kept at work without schooling, the parent or employer is the offender, and is amenable to the law. It is better to go after the child kindly than to coerce; better to persuade than to fine the parent. The right dealing with absenteeism has become a purely educational question. For this reason the

help of the police department is no longer necessary. The management of the matter rightfully belongs to the school authorities. Acting upon this view, after repeated failure of other plans, the Board applied to the legislature for authority to appoint a suitable officer and to define his duties. An act was drafted, applying to this city only; but so apparent was the wisdom as well as the need of the proposed change, that a general law was passed, giving all committees in the State the same powers.

This Board immediately appointed Mr Samuel Brooks as truant officer, and gave him charge of all matters relating to truancy. He is also authorized to issue certificates for employment in the mills, and is required to see that all employment laws are enforced. He has shown great fitness for the position. The following abstract from his daily reports to the Superintendent, for the last four months, shows what he has accomplished, so far as figures can explain the peculiar work of such an officer:—

Number of children found upon streets in school-hours . . . . .	446
Number of absentees reported by teachers . . . . .	262
Number of these reported voluntarily returned to school . . . . .	71
Number of these caused to attend school . . . . .	176
Number placed in school not attending before . . . . .	208
Number of children found in mills employed without certificate . . . . .	175
Number discharged from mills . . . . .	201
Number temporarily confined in police station . . . . .	6
Number visits to parents . . . . .	418

The issuing of certificates for employment of children in the mills, and attending to their discharge, will require a large portion of the officer's time, in vacations as well as in

school-time. It is gratifying to the friends of education, that the city has at last provided for a just and successful dealing with the matter of truancy. To doubt the expediency of continually employing a truant officer in a manufacturing city of thirty-five thousand inhabitants, would indicate ignorance of the facts of truancy, or indifference to a great evil.

In August, the Board completed the revision of its rules and the regulations for the public schools. Two changes only are of interest to the public,— the

#### MANNER OF ELECTING TEACHERS,

and a reduction of school hours.

All teachers hereafter chosen are to serve on trial for twelve weeks, at least, before election. This is believed to be the true way to obtain good teachers. Actual practice in the school-room is the best test of competency. A competitive examination reveals but little of the ability of the candidate. Within the past year, a teacher who ranked highest in such an examination has proved a failure; and one who was lowest in the list is now one of the best primary-school teachers in the city. The choosing of good teachers is beset with all the difficulties of the civil-service reform. The absurdity of relying upon a competitive examination alone is apparent in both. When an examination has shown that an applicant knows as much of the branches to be taught as the pupil is expected to learn, an actual trial in the school-room may be trusted to tell the rest. This has been illustrated in our Training School. Teachers have been examined before and after serving in that school. These examinations showed scholarship, and nothing else. The real test of ability to teach was in the school-room.

The rule providing for semi-annual examinations in March and November will be of interest to those desiring to teach in our city.

By vote of the Board in April, the

#### SCHOOL TIME WAS REDUCED

from six hours to five hours in the middle and grammar schools, and, by the adoption of the new rules in June, the same reduction was made in the High School. The hour taken from the school time each day amounts to a week and a half in a year. According to the present schedule, the schools will be in session about thirty-seven weeks of twenty-five hours each. In the last five years, there has been a reduction of school time in this city, in hours and number of weeks, amounting to four and one-half weeks. The average actual time now given to study and recitation is four hours and twenty minutes each day.

While referring to this subject, we note the interesting historical fact that, one hundred years ago, a school was kept in Manchester (then Derryfield), the same number of weeks as in 1881. The first school vote recorded in December, 1781, was as follows: "Voted, that the town hire a school-master *nine months* this year coming."

#### HEALTH OF PUPILS.

So far as hours affect the health of pupils, the reduction will be a great gain, if our teachers do not attempt to do in five hours what was done in six. Five hours of worry over hard lessons and harassing recitations are worse than six hours of natural study. The health of pupils suffers as much from incompetency of teachers in this respect, as from any other cause. The success of the celebrated Quincy schools is due to the fact that their methods are *natural*. A visit to the schools there, finds the children more active,

and apparently more stimulated, than the pupils of ordinary schools ; but there is an entire absence of fret and anxiety. The children are completely interested in their lessons, because the teacher *teaches*, and does not drive them to impossible tasks. They go out from the school happy and unburdened, to enter into their play with zest, and to sleep well at night. The Quincy system is simply a discovery of some of the principles of mental development established by the Almighty when He made the human mind, but which have been hid from wise and prudent committees and teachers, and revealed unto babes.

The responsibility of the School Committee for the health of pupils is summed up in three things, — well ventilated school-rooms, a reasonable course of study, and competent teachers. Over against these, are exercise, food, dress, and sleep, to say nothing of companionships, amusements, and reading, each tenfold more potent than the school for or against health, and all depending upon the good sense of parents or guardians. Reduce school-hours to the minimum, and the majority of the children of large cities would still lack bodily vigor. Boys and girls bred in the country, accustomed to the open air and trained to labor, have always been coming down from the hills and carrying off the prizes of the city, and probably will continue to do so. It has been said that “the great city is the grave of the physique of the race.” With equal truth it might be said that the grave is prepared during school life ; not because of too much study, but by the neglect of physical training, both in and out of school.

Upon the plea of injury to health, the practice of sending to the parents upon a card a record of scholarship and deportment was discontinued at the end of the summer term. It was charged that the use of these cards produced a hurtful stimulus among the pupils, by comparison of their

relative standing in the different classes. At the request of many parents the plan has been restored. It was to be expected that parents who took an interest in the schools would reluctantly give up a plan by which they were kept constantly informed of the regular attendance and progress of their children. A healthy rivalry among scholars is always desirable. Emulation is the main-spring of all success in life. Without it teachers would accomplish little. Still it is a dangerous thing in the hands of some of our teachers. A modified form of card will be adopted, intended to avoid danger hereafter, from a system which can do no harm except when improperly used.

In this connection we refer to a kind of emulation that has been introduced into the schools of France and other foreign countries, called the

#### SCHOOL SAVINGS BANK.

The children are encouraged to save money. The teachers receive the penny savings of the scholars to a certain amount, which is then deposited in the town savings bank. This is a species of "cramming" which ought to commend itself to the Yankee people, unless they have lost their traditional love of money. The encouragement to save naturally stimulates to earn, and this plan is probably the best yet devised to secure habits of industry and economy among the children of cities. It has never been tried in America, but there seems to be no reason why it should not succeed.

#### NEW TRAINING SCHOOL.

The reorganization of the Training School, which the Board has just adopted, is a measure of the highest importance to the future welfare of our schools. The new

plan provides for the training of teachers for all grades below the high school. All teachers admitted will be required to take a course of study in methods of teaching. The old Training School was a practice school only. Nine-tenths of those admitted were graduates of our High School. They have become teachers without any special study. They have copied what they saw in the Training School, good or bad. Such training is evidently very imperfect. The new school is expected to give thorough training in study and practice. It will furnish a home normal school for the young women of our city who desire to teach, and the city will have a home supply of teachers equal to the best. The old Training School did an admirable work. It was narrow in scope and imperfect in methods, yet nothing connected with our school system has yielded more profitable and practical results. While the Board hope that the new school may be of still greater service to the city, they do not disparage the work of Miss Bunton and her associate teachers. They did not attempt, nor were they required, to give normal instruction. They have accomplished all that was demanded of them, and their services deserve a grateful recognition.

That would be an incomplete record which only recited the results of a single year, and took no note of the far-reaching and lasting

#### RESULTS OF EDUCATION.

Education means more than statistics can reveal. The late President Garfield, speaking out of his own great knowledge of education, said that its three great objects were "conscience, intelligence, and patriotism." He put conscience first, and thoughtful men know that he was right. Book intelligence has been exalted until arithmetic stands for honesty, and smartness for honor. The times



call for education in practical manliness, — manliness that includes industry, honesty, temperance, purity, and reverence. There are parents who are asking why it is that boys come out of the schools with no taste for a literature better than a dime novel, no aspirations above a cigar or a pistol ; no disposition to earn their own living ; no ambition to make the most of themselves in life. What price, it is asked, would be too great to pay for teachers to whom they can trust their children to be made manly as well as learned. In our school system the teacher is becoming more and more a power to give the child “conscience, intelligence, and patriotism.” By the time school life is ended it is generally forever settled whether the coming manhood shall be noble and aspiring, or degenerate and worthless. The stream cannot rise above its fountain. The school-boy will have his model in the teacher ; the character of the teacher depends upon the standard set by the men who choose him, and they are the choice of the people. The history of our city records an unfailing interest in our schools. Let us hope it will continue unabated. May their interests always be intrusted to citizens competent and willing to give to public education the attention which its importance demands.

MARSHALL P. HALL,

*For the School Committee.*

MANCHESTER, Dec. 31, 1881.

## SUPERINTENDENT'S REPORT.

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*To the School Committee of Manchester.*—

GENTLEMEN:—In accordance with your rules, requiring an annual report from the Superintendent of Public Instruction, I herewith respectfully submit the following as my fifth report, the same being for the year 1881, and the twenty-sixth of its series:—

### GENERAL CONSIDERATIONS.

The general condition of the schools cannot be truthfully said to be greatly different from that of a year ago. Whatever of progress has been made is chiefly the result of that healthy growth which comes from a faithful discharge of daily duties, well performed, by those most directly connected with the schools; and the number of our teachers who have contributed to such a result is sufficiently large to warrant the belief that there has been some progress, an attainment of some higher standard for the schools as a whole. An advanced standard in a few schools has, indeed, been quite perceptible: and an observance of the study, patience, and perseverance which have brought about the improved condition of certain schools has afforded me the greatest pleasure of the year. It is difficult to discuss the character of schools apart from their teachers; for the saying is as true as trite, that "as is the teacher so is the

school." So it comes to pass that Manchester has excellent and good schools, chiefly because she has excellent and good teachers ; likewise, not to put it too harshly, she has some quite ordinary schools, because she has some quite ordinary teachers.

Comparisons of the fitness of teachers, by casual observers, are frequently quite unjust. It very often happens that a sort of brusqueness in a teacher's ways is mistaken for smartness, that tact in management is mistaken for faculty to teach, and that necessary delay to correct the errors and make up the deficiencies of a predecessor is mistakenly regarded as a failure properly to advance. It does not follow because a teacher has grown somewhat old in the service, that such a one is therefore necessarily more antiquated in methods of teaching, is more largely lacking a knowledge of human nature and the operations of the mind, or is less likely to exercise a fair degree of judgment in the management of a school, than a younger person who has a better, perhaps because a later, training. General rules have their exceptions in this matter, as well as in others ; and I think that by the work performed and the results attained, thoroughly known and understood, should individual teachers alone be judged. Nor in a graded system of schools like ours can the work of a teacher always be intuitively understood. It is not infrequently a matter for investigation, if one would know it. The real results are not always apparent, nor are the apparent ones always real. In one building the momentum given a class by one or two uncommonly strong teachers may carry that class through the next grade commendably well ; indeed, so that, though the teacher of that grade be weak, the class, when compared with others of the same grade, does not for the time appear to suffer. Yet in another building a really strong teacher in the same grade as

that of the weak teacher, to whom reference has just been made, may appear to be the inferior, because it is not seen that such a one is embarrassed by the short-comings of, it may be, one, two, or three predecessors. Hence in a graded system of schools, where the work of a teacher is largely affected, in most instances, by the work of one or more predecessors, it is frequently necessary, in order to understand the real efficiency of the teacher, that the non-professional observer should critically note the work of that teacher for several terms: and that, too, in connection with an observance of the work done by predecessors, and an attainment of a knowledge of the material of which the several classes may, in the meantime, be composed. It is not designed to intimate, however, that the ordinary observer may not very soon distinguish between a decidedly good and a decidedly poor teacher; but when a teacher is expected to accomplish a certain amount of work in a specified time, and is held accountable for the result of that work, then it is important that he who would judge of that work and its results should know whether or not the teacher concerned has first to make up the deficiencies of one or more weak teachers.

In general, it may be said that teachers belong to one of two classes.—some to the class of those who attain so much of the semblance of the true teacher that they go through a certain routine, best characterized as an order of exercises, which seems to be thought necessary during five hours a day, with but little apparent thought of the relation the work of one day has to that of another, or of the relation the training of their pupils has to the work of life; others, earnest souls in whatever they undertake, belong to the class of those who so thoroughly devote themselves to an attempt to do their whole duty that they are soon in love with the work for its own sake, finding that they are delving

in mines of unsurpassed richness and excellence, which are limited only by the possibilities of the human mind. In the former class, we find those teachers who feel that they are but a wheel in the great machinery of our schools, and that simple weakness upon their part will not work greater injury than to throw the strain upon another. In the latter class, save the very few who are born to teach, we find our good teachers, those who recognize no machinery, who act as though they personally expected to be held accountable for the character of the training of the children under their charge. These two classes also have their exceptions. The former contains an occasional partial success; and the latter, an occasional partial or complete failure. The teacher whose chief thought is in other directions than that of school, may yet while about the work of the school-room exhibit so much of tact and judgment in conducting the work of a school as to blind the superficial observer to the teacher's neglect properly to prepare his daily work, and to his consequent defects in methods of instruction; while, on the other hand, one whose heart is enthusiastically in the work may have so little tact, judgment, and power to impress, or control, that most excellent aspirations and fine abilities to instruct prove comparatively worthless in such a one for the office of teacher. It therefore requires more than an ordinary knowledge of the characteristics of the true teacher always to enable one justly to discriminate between those teachers who are apparently good and those who are really so; and this is especially true, for reasons already given, in attempting to pass judgment upon teachers working in a graded system of schools.

From these considerations, I am led to point out two ways in which I think the real merits of individual teachers might be so palpably evident that there could be scarcely

two opinions in regard to their usefulness. The first of these ways is not, in some other places, any longer an experiment, but a successful experience. I refer to what is known as the "departmental system" of instruction. This system is based upon the modern idea of a division of labor for the purpose of securing more perfect results in its several departments. My grandfather, though professedly a farmer, constructed his own carts and sleds, made his own barrels, and shod both his horse and his family. The modern farmer has better carts, sleds, barrels, and shoes, because they are made by specialists. Departmental instruction is the work of a specialist. It consists in requiring a teacher to devote himself to the work of giving instruction in some one subject, or kindred subjects, as, for example, in reading; while another teacher instructs the classes in arithmetic, another in penmanship and drawing, another in grammar, and so on to the end of the list of studies required to be taught in a given school. This system of instruction is in vogue in our High School, as well as in most other schools designed to furnish secondary instruction; and I do not see why the plan would not be advantageous to a well organized grammar school, properly officered. At any rate, it would so locate individual responsibility among teachers that any part not well performed could be unmistakably charged to the account of the proper delinquent.

As, however, the departmental system of instruction is not advocated by leading educators for schools of lowest grade, I will proceed to unfold my second plan for making apparent to all concerned the comparative, if not real, merits of individual teachers in a system of graded schools. Neither is this second plan original with myself; but for the want of a name, I will characterize it as the "consecutive system," since it consists of a teacher's following up the work of classes for two or more years. To apply the consecutive

system to those of our schools below the high-school grade, I should advise that primary teachers accompany classes through the work of the first three years, that middle-school teachers accompany classes through the work of the two years assigned the two middle-school grades, and that the lady assistants in the grammar schools accompany classes through the work of the first three years in the grammar-school grades. I would make the divisions in this way, because I presume that our teachers, in general, are in those grades, classed as primary, middle, and grammar, for which they have most taste by reason of the nature of the studies in the respective grades, or by reason of the age of the children thus represented. Under such an arrangement a pupil would have but four different teachers, including the master of the grammar school, before he should be ready for the high school; while under our present arrangement the pupil has no less than eight different teachers before completing the grammar-school course. Now I think it should be evident to every one that there is more or less loss of time and teaching power involved in every change a teacher experiences in the reception of new classes, for of necessity it takes several weeks, often months, for a teacher to acquire a full knowledge of all the individual peculiarities of a class of fifteen or twenty pupils; and it is only when a full and free acquaintance is mutually established between the teacher and the pupil that both can work to greatest advantage. Then, too, the teacher, aware that she is to have charge of the same classes for two or three years, and will have the privilege of directing their work through the whole of one of the three distinctive periods into which our elementary schools are divided, the teacher, I say, under these circumstances will attain a more comprehensive view of the science of teaching, for she will more fully realize the relation of the work through several

classes; and, as often as over the ground, she will apply her art with increased effect. Moreover, the satisfaction the true teacher would experience in witnessing for so long a period the development and growth of her pupils should, I think, make her desirous of embracing the opportunity to try the experiment; and any teachers who may feel they are not fully appreciated, as well as those who are conscious of their powers, if afforded a chance to test the "consecutive system" of instruction, would have an opportunity to show what they could do under favorable circumstances.

At this point I shall make the two following recommendations: First, that pupils be transferred from one room to another but once a year, in accordance with the plan and for the reasons which were suggested in my annual report last year, the time of transfer being at the opening of the fall term, and the chief reasons, that the rooms of the masters of the grammar schools may be filled throughout the year, and that there may be relief for the crowded condition of the lowest-grade primary schools during the fall term; second, I recommend, for the purpose of infusing more interest into the schools, and for the sake of affording the committee an opportunity to observe the merits of the different systems of instruction, that the departmental system of instruction and the consecutive system be both introduced into the schools during the coming year. I do not advise a wholesale introduction of either of these systems of instruction at once; but I think that both, one in each school, might be successfully tried in two of our large grammar schools. One of these schools, I believe, is quite favorably organized for the introduction of the departmental system of instruction, and one of the others is equally well adapted to the introduction of the consecutive system. The consecutive system might also be tried in one or two other schools of



lower grade, under the direction of the committee on studies, and at their discretion.

Before passing from these general considerations, it may be well to add, that within the past year there has been placed in the schools a revised course of study, which contemplates rational or "natural" methods of instruction; and this course has been supplemented by aids for object illustration in the shape of material for practice, where needed, to show the significance of linear, dry, and liquid measures. Blocks for illustrating numerical combinations have also been furnished teachers of lowest primary grade, and the lower grades have been supplied with considerable fresh matter for supplementary reading. Teachers in general have had a limited supply of Swett's and of Sheldon's manuals, designed especially for the aid of teachers; models for drawing geometrical forms from objects have been placed in the more advanced grades, and drawing manuals in the lower grades; and Prang's Natural History series, and his plates for illustrating the trades and occupations, have been placed in the middle schools. The revised course of study, thus supplemented by aids in teaching, has been worked more or less successfully in proportion to the degree in which teachers have comprehended its scope, and exhibited genius and effort to carry out its requirements. In these respects there has been considerable difference, as might be expected; but it may be said that some have made much progress, and that some others appear to have been laying foundations which, if perseveringly built upon, should also improve other of the lower-grade schools,—the grades for which the changes made in the course were designed chiefly to affect.

There is still opportunity for much further progress in many of them; and I think a great good could easily be accomplished by affording those teachers who wish to study

the better methods of teaching certain subjects an opportunity to witness the better class of work done in our schools, and, when desired, in other places. This would be one of the best ways of assisting those who most need, and who should therefore most wish, to improve. The arrangement could be readily effected by allowing teachers who would avail themselves of such opportunities for improvement leave of absence for that purpose, without reduction of salary. This could be done, and their schools continued, without expense to the city, because competent sub-teachers could be furnished from the Training School to supply the schools vacated: and an advantage would also thus accrue to such sub-teachers, by affording them occasional practice in assuming the entire charge of a school.

In this connection I would also recommend that the city furnish substitutes for schools when teachers visit other schools, as at present allowed to do under the school regulations. My reason for this recommendation is, that by closing the schools upon such occasions, there are about a dozen days during each term, or more than seven weeks in the year, when the efforts of the truant officer are largely nullified. Upon such days many pupils inclined to truancy ascertain, through acquaintances in the school to be closed for a day, when the pupils of that school are to be dismissed, and they then take occasion to absent themselves from their own schools; but, when confronted upon the streets by the officer, they boldly claim to be members of the school which is dismissed, nor is it possible for him to determine to the contrary before such pupils would again voluntarily be in school. Substitutes could also be supplied from the Training School for this purpose, without expense to the city, by properly specifying the conditions of entrance upon that school.

## THE TRAINING SCHOOL.

In my report a year ago I gave a very full history of what has been our Training School ; and from the records it now appears that there have been one hundred and fifteen different members of that school, that fifty-four of these completed the required term of service and received certificates accordingly, and that forty-four of our present corps of lady teachers were once enrolled as members of the Training School. This school has also supplied the city with efficient substitutes for several years, and for this service alone it has returned a full equivalent for what little extra expense it has cost our citizens. The school, since its organization, has been under the chief management of Miss Nancy S. Bunton as principal ; and I think that she is entitled to much credit for a faithful performance of what has been required of her, and that for long and efficient service she is entitled to favorable consideration.

It is now proposed to transfer the department for the training of teachers to the Franklin-street School, where its field for practice may be extended to the grammar grades ; and, at the same time, it is designed to enlarge the sphere of this department and make it more like those professional schools which other cities have found to be of great utility, as being both the best and the most economical means of supplying the public schools of a city with the better grade of teachers. by affording citizen pupils an opportunity properly to prepare themselves at home for efficient work in the schools. Since the training department is, therefore, to be devoted exclusively to a study of the science of teaching and to a practice of its art, I recommend that examinations for admission to the school shall in future be sufficiently exhaustive, in mere matter of common-school subjects, to warrant, if such examinations are

satisfactorily passed, the granting of certificates to teach ; then, when any are needed to do substitute work for teachers who may be allowed to visit schools for official improvement, or as now allowed to do under the rules, the sub-teachers in the Training School could be employed for the purpose, and, while they would thus be making the city some return for their instruction, they would at the same time have opportunity for occasional practice of that kind which would be useful in affording them the entire charge of a school for the time being. Besides, when through the Training School, they would not again need to be subjected to an examination in matter ; nor, if their training-school work should be closely observed, would they at the end of their course need to be examined in methods, and thus one examination would suffice where heretofore two have been required. Moreover, by this plan candidates would know, before giving their time for training-school work, whether they could obtain a certificate of qualification, and the committee would know whether applicants for admission to the Training School had sufficient knowledge of matter to enable them to enter upon the work of that school with advantage to themselves and profit to the city.

#### TEACHERS' EXAMINATIONS.

Your attention is next invited to the matter of teachers' examinations. The form of such should, in my judgment, be both written and oral ; written, in part, because exactness of knowledge in some departments is essential, and its attainment, or the lack of it, should be clearly discovered ; oral, in part, that the disposition, temperament, general information, culture, judgment, tact, and originality of the candidate may be discovered, as far as possible, and given due consideration. In the selection of a teacher it

is as important that the general characteristics of the candidate should be taken into account, as that a precise standard of scholarship should be required, though the latter must be had to an extent sufficient to meet the needs of the position to be filled. The necessary literary qualifications may be best ascertained by written tests, as well as general notions in regard to the theory and practice of teaching; but the methods which an applicant would use in teaching certain subjects can be best understood from an oral interview. For teachers' situations in our elementary schools it has been customary to examine candidates only in the subjects taught in those grades; and, in making up an account of the written results, to reckon the several studies as of equal importance in estimating the average of them all, from which average as a basis, certificates have usually been awarded. I beg leave to suggest that those subjects which are chiefly matters of memory should not be regarded as of the same importance as those of logic; and that, in determining whether applicants should have certificates, those studies which are taught in but few grades should not have the same weight as those taught in all. Under the custom of regarding all studies of equal importance and allowing one hundred credits for each, it appears that in the case of an applicant who in examination might attain 45 in arithmetic, 55 in grammar, 95 in spelling, 80 in geography, and 75 in history, there would be an average of 70, which, if taken as an inflexible standard, would entitle the candidate to a certificate; and yet, in such a case, with fair questions, no certificate should be awarded, for there is evidence of the applicant's being lamentably weak in two of the most important branches taught in the schools. Such apparent weakness, upon further investigation found to be real, should deprive the applicant of a certificate, even though such weakness had

existed in but one study of so great importance. Now at this same examination another candidate might attain the following: 75 in arithmetic, 70 in grammar, 70 in spelling, 75 in geography, and 60 in history. which would likewise afford an average of 70; and, in this instance, so far as the written results should determine the matter, it would seem that a certificate might be granted. The averages are the same in either case; but in the former, as manifest from the credits in spelling, geography, and history, there is presumptive evidence of a good memory. In the latter case, from the credits as a whole, there is testimony of a fair memory: and, from the credits in arithmetic and grammar, there is evidence of general discipline and good reasoning faculties. So I am led to say, as I have for some time thought, that in a matter of this kind it would be better to make no general average; but best for the examiners to pass separately upon the results of the individual members in the list of those examined, from an inspection of the standing in each subject with reference to its importance, and also from those standings regarded in a general way as a whole; and thus award to the several applicants the certificates to which they are justly entitled, so far as those certificates are to be granted upon the results of the written work alone. I might here add, for the information of the general committee, that this is what was practically done by the committee on examination of teachers, in passing upon the candidates recently examined. No basis of percentage was inflexibly fixed, from which to award certificates, and I believe that all were fairly treated and received all that could be justly claimed.

#### ADMISSIONS TO THE HIGH SCHOOL.

Conclusions of the kind just enunciated have been confirmed from the experience of the past five years in deter-

mining admissions to the High School. It was found, during the first and second years, that some pupils admitted to the High School upon what was thought to be a sufficiently high average could do comparatively nothing with the High-School studies. By a reëxamination of the grammar-school percentages, it was found that in such instances the high average had been attained in consequence of high standing in the memory studies, notwithstanding there was great weakness in those studies which call for a larger exercise of the reasoning faculties. Since then, by exercising more care in the inspection of a pupil's standing in individual studies, there has been an improvement in the material of the classes afforded the High School. Nevertheless, it is thought proper to add that it has not been considered just to exclude from the High School those who for constitutional reasons have not been able to attain a high standard in arithmetic or grammar, as such might reap many advantages from some lines of study in the High School; and that only those deficient chiefly through their own neglect have been asked to remain in the grammar school an extra year.

During the years of my superintendency I have furnished nearly all the examination questions that have been used in the first divisions of the grammar schools. Consequently the questions have been uniform, and the results have been marked from a uniform scale arranged for each set by myself. From an average of some ten or a dozen such examinations, with several different classes, in each of the studies there taught, I think it may be safely assumed that the strength in teaching power as exhibited in those divisions is now pretty well understood; and I therefore recommend, for the purpose of affording the superintendent more time for doing other work which in his judgment

would be of greater usefulness to the schools as a whole, that he may be excused from preparing regular examinations for the first divisions, and that pupils in future may be admitted to the High School from the grammar, and such receive their diplomas of graduation, upon the recommendations of the grammar masters. such action, however, not debarring first-division pupils who may feel aggrieved at the master's decision from taking a final examination from the superintendent, who shall report the results to the proper committee. Of all persons, the master of a grammar school, who has the direct charge of its highest-grade pupils for a year, should best know who of them are properly fitted for the High School ; and I believe a knowledge of the fact that those whom he might recommend would be admitted without further question would have a most excellent effect upon his entire school. Besides, the master has no motive for recommending any who may not have properly completed the work of the grammar school. He certainly would not want inefficient pupils, admitted to the High School upon his recommendation, there prove his incapacity to judge of their fitness for its higher work. Students are admitted at Dartmouth from our High School upon the recommendation of the master. For the same reasons, why should not the pupils recommended by the masters of our grammar schools be admitted to the High, and thus save, so far as possible, the more worthy pupils the strain of special examinations? First-division pupils not intending to enter the High School, who cannot be recommended by the master to be as good scholars as those recommended for the High School, should be required to pass satisfactory final examinations before being granted diplomas of grammar-school graduation.



## PUPILS' REPORTS.

From the action of the committee within the past year, it is evident there are decided differences of opinion in regard to the advisability of pupils' being regularly furnished with reports of their work for the inspection of parents. Some contend that parents should have such information, and that as a whole there is more of good than evil resulting from the use of the reports; while others consider that the stress put upon slight differences in the percentages attained is provocative of jealousies and anxieties among pupils, that are unnecessary and pernicious. I therefore think that by the use of letters upon the form of report used, the desired information in regard to the deportment and scholarship standing of pupils can be as well indicated, and slight differences in percentages be thus ignored. The school records can be kept from a knowledge of the pupils, as they have been for the past few months, and in transferring to the pupil's report the significance of his percentages, letters can be used as follows: X, for extra; E, for excellent; G, for good; F, for fair; I, for indifferent; P, for poor; and FF, for different degrees of failure. Since you have lately decided that the reports shall be issued, I recommend that you make clear whether the results to be reported shall be derived from written examinations or daily recitations, or both, or whether it shall be optional with teachers to do as they please in the matter.

## SCHOOL ORGANIZATION.

In my first annual report I recommended that our schools be known by some other name than by that of the street upon which they happen to be located, and I then suggested historic names; but large donations to our city library and

generous gifts to our High School by one of our leading citizens, who has also somewhat distinguished himself in a literary way, remind me that in other cities schools are named in honor of their prominent citizens; and that, as there is a large school in the immediate vicinity of the residence of the gentleman to whom reference has been made, Manchester might in this way give public recognition of her appreciation of those who honor her public institutions.

There is also another improvement which I would recommend in the published form of our organization, and that is, to publish under one head the names of all teachers in the same building, with an indication of the grade of school taught by each.

#### CONCLUSION.

Though the true province of the report of a superintendent is to afford the committee information in regard to the schools and to make such recommendations for their welfare as he may deem beneficial, it is understood that such officials frequently take occasion, at the opportunity offered in an annual report, indirectly to convey to the public their opinions in regard to some of the great educational topics of the day; but as opinions of that kind would reach a larger constituency through the public press, I will for once, at least, refrain from assuming that the tax-payers are willing to pay for the publication of opinions with which they might not altogether agree: and, in conclusion, I extend to our citizens in general, and to parents in particular, another cordial invitation to visit the public schools, that they may there see, in a way that will enable them to know, whether those schools are properly supplementing the work of the family, and enable them better to understand

how to give the schools such coöperation as will enable them best to enhance the welfare of the children under their charge.

Respectfully submitted.

WM. E. BUCK, *Superintendent.*

TABLE SHOWING THE ATTENDANCE AT THE VARIOUS SCHOOLS FOR THE YEAR 1881.

SCHOOLS.	Whole No. En-rolled.	Whole No. Belonging.*		Average Number Belonging.	Average Daily Attendance.	Percentage of Daily Attendance
		Boys.	Girls.			
High School.....	253	90	99	174	171	98.2
Franklin-Street Grammar School.....	244	95	91	146	140	95.8
Lincoln-Street Grammar School.....	322	100	124	176	169	93.8
Ash-Street Grammar School.....	286	96	92	170	161	94.5
Spring-Street Grammar School.....	111	41	47	62	58	93.5
Piscataquog Grammar School.....	149	46	78	74	68	91.9
Amoskeag Grammar School.....	52	19	27	36	31	86.1
Totals.....		397	459	664	627	94.4
Middle School No. 1.....	90	26	33	42	38	90.5
“ “ “ 2.....	64	29	20	45	34	75.5
“ “ “ 3.....	70	20	25	42	39	92.8
“ “ “ 4.....	71	31	18	41	37	90.2
“ “ “ 5.....	53	23	13	32	29	90.6
“ “ “ 6.....	89	33	28	46	43	93.5
“ “ “ 7.....	82	33	27	43	38	88.4
“ “ “ 8.....	58	19	25	34	32	94.1
“ “ “ 9.....	78	33	27	39	35	89.8
“ “ “ 10.....	61	17	12	28	25	92.5
“ “ “ 11.....	80	29	18	36	33	91.7
Training Department.....	120	55	39	59	52	88.7
Totals.....		348	285	487	435	89.3
Primary School No. 1.....	94	45	42	46	39	84.8
“ “ “ 2.....	95	24	31	36	32	88.9
“ “ “ 3.....	78	37	40	40	34	81.6
“ “ “ 4.....	74	26	28	41	36	90.
“ “ “ 5.....	93	36	23	40	36	90.8
“ “ “ 6.....	90	40	42	44	39	88.6
“ “ “ 7.....	87	22	35	50	45	90.
“ “ “ 8.....	84	36	38	41	37	90.2
“ “ “ 9.....	89	29	30	42	39	92.8
“ “ “ 10.....	145	55	38	42	40	95.2
“ “ “ 11.....	108	56	48	50	45	90.
“ “ “ 12.....	89	40	36	46	42	91.3
“ “ “ 13.....	87	41	27	41	38	92.6
“ “ “ 14.....	87	28	30	45	41	91.1
“ “ “ 15.....	113	24	28	47	44	93.6
“ “ “ 16.....	93	21	25	49	43	87.7
“ “ “ 17.....	67	27	19	36	32	88.8
“ “ “ 18.....	125	64	52	40	36	90.
“ “ “ 19.....	68	24	36	39	35	89.7
“ “ “ 20.....	91	46	36	46	39	84.8
“ “ “ 21, Discontinued.....						
“ “ “ 22.....	77	37	28	37	33	89.
“ “ “ 23.....	98	53	39	39	34	88.5
“ “ “ 24.....	84	60	21	38	34	89.5
“ “ “ 25.....	64	36	26	48	44	91.6
“ “ “ 26.....	77	39	24	38	35	92.1
“ “ “ 27.....	79	30	28	37	32	86.5
“ “ “ 28.....	104	48	52	44	40	91.6
“ “ “ 29.....	92	39	22	38	36	94.7
“ “ “ 30.....	86	31	23	37	32	86.5
Bakersville.....	81	38	39	47	42	89.4
Training Department.....	173	84	83	86	76	89.0
Totals.....		1216	1069	1350	1210	89.5

TABLE SHOWING THE ATTENDANCE AT THE VARIOUS SCHOOLS FOR THE YEAR 1881, — *Continued.*

SCHOOLS.	Whole No. En-rolled.	Whole No. Belonging.*		Average Number Belonging.	Average Daily Attendance.	Percentage of Daily Attendance.
		Boys.	Girls.			
Suburban School, District No. 1.....	9	6	3	5	5	100.
“ “ “ “ 3.....	58	30	20	38	32	84.2
“ “ “ “ 4.....	71	39	32	49	46	94.5
“ “ “ “ 5.....	25	12	11	13	11	84.6
“ “ “ “ 6.....	27	13	10	15	12	80.
“ “ “ “ 7.....	50	25	21	26	22	84.6
“ “ “ “ 8.....	43	15	20	21	17	80.9
“ “ “ “ 9.....	16	9	6	16	14	85.
Totals.....		149	123	183	159	86.8
Aggregate totals .....		2200	2035	2858	2602	91.0
Aggregate totals for 1880.....		2166	1970	2970	2727	92.0

\* Exclusive of those received, by promotion or transfer, from other schools in the city.  
 † In existence during the spring and fall terms only.

It may be added, for the benefit of the uninformed, that there is in this city an extensive system of Roman-Catholic parochial schools, which accounts in part for the comparatively small portion of our population (35,000) in the public schools.

## LIST OF TEACHERS AND JANITORS.

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### HIGH SCHOOL, — BEECH STREET.

- Principal. — Albert W. Bachelor.  
Assistant. — G. I. Hopkins.  
                  Lucretia E. Manahan.  
                  Emma J. Ela.  
                  Mary A. Buzzell.

### TRAINING SCHOOL, — MERRIMACK STREET.

#### *Higher Department.*

- Principal. — Nancy S. Bunton.  
Assistant. — Mintie C. Edgerly.

#### *Primary Department.*

- Principal. — Nellie M. James, one term.  
                  E. Jennie Campbell, one term.  
                  Ida J. Bartlett, one term.  
Assistant. — Elvira S. Prior.

### GRAMMAR SCHOOL, — FRANKLIN STREET.

- Principal. — Edward P. Sherburne.  
Assistant. — Clara G. Fogg.  
                  Lottie R. Adams.  
                  Carrie E. Reid.

## LINCOLN-STREET GRAMMAR SCHOOL.

Principal. — Benjamin F. Dame.

Assistant. — Julia A. Baker.

Mary J. Fife.

Isabelle R. Daniels.

Mary F. Barnes.

## ASH-STREET GRAMMAR SCHOOL.

Principal. — Daniel A. Clifford.

Assistant. — Anstrice G. Flanders.

Rocilla M. Tuson.

Sarah J. Greene, two terms.

Annie A. Webster, one term.

## SPRING-STREET GRAMMAR SCHOOL.

Mary L. Sleeper.

Anna O. Heath.

## PISCATAQUOG, — NORTH MAIN STREET.

Principal. — Frank S. Sutcliffe.

Assistant. — Mary A. Lear, two terms.

Cora M. Dearborn, one term.

## AMOSKEAG.

Etta J. Carley.

## MIDDLE SCHOOLS.

No. 1, Blodget Street. — Nellie I. Sanderson.

2, Ash Street. — Mary A. Smith.

3, Ash Street. — Bertha L. Dean.

4, Lincoln Street. — Anna J. Dana.

5, Lincoln Street. — Carrie M. Gilmore.





- No. 21, Bridge Street. — Discontinued.  
 22, Beech Street. — Florence A. Nichols.  
 23, Lowell Street. — Flora M. Senter.  
 24, Lowell Street. — Ella F. Sanborn, two terms.  
     Mary E. Sylvester, 1 term.  
 25, Center Street. — Clara E. Woods.  
 26, Spring Street. — Carrie I. Stevens.  
 27, Beech Street. — Cora M. Dearborn, two terms.  
     Discontinued, fall term.  
 28, Center Street. — Belle M. Kelley.  
 29, Beech Street. — Louisa R. Quint.  
 30, Beech Street. — Lizzie J. West.

## SUBURBAN SCHOOLS.

- No. 1, Stark District. — Susie A. Crosby.  
 3, Bakersville. —  
     Principal, Addie M. Chase, one term.  
     Emma C. Gee, two terms.  
     Assistant, S. Izetta Locke.  
 4, Goffe's Falls. — Georgie A. Nute.  
 5, Harvey District. — Mary W. Mitchell.  
 6, Webster's Mills. — Olive J. Randall, two terms.  
     Susie G. Woodman, one term.  
 7, Hallsville. — Mary E. Sylvester, two terms.  
     Annie W. Patten, one term.  
 8, Youngsville. — Susie G. Woodman, two terms.  
     Olive J. Randall, one term.  
 9, Mosquito Pond. — Olive A. Rowe.

## MUSIC TEACHER.

Jason J. Kimball, three days per week.

## DRAWING TEACHER.

Mary K. Webster.

## JANITORS.

*High School, Ash Street, Bridge Street, and Blodget Street.*

John S. Avery.

*Franklin Street, Manchester Street, Lincoln Street, and  
Wilson Hill.*

John A. Carr.

*Spring Street, and old High-School House.*

George W. Varnum.

*Merrimack Street and Spruce Street.*

Rufus Lamb.

*'Squog Schools, consisting of Center Street, North and South  
Main Street Schools.*

D. H. Morgan.

REPORT  
OF THE  
CITY CIVIL ENGINEER.



# REPORT

OF THE

## CITY CIVIL ENGINEER.

*To His Honor the Mayor, and Gentlemen of the City Councils,—*

SIRS:— In making this, my first annual report, it being the third annual report of the City Engineer, it will not perhaps be out of place to make a brief statement of the condition in which I found the office when I took possession, Jan. 12, 1881, and a comparison of the expenditures for the three years.

From April 9, 1879 to Jan. 1, 1880 . . . . .	\$1,022 50
Jan. 1, 1880 to Jan. 1, 1881 . . . . .	2,146 49

I am obliged to take the above items from the city report, as there has never been any record kept in the office, of the expenditures for this department, and numerous bills came in after I took possession, which leads me to believe that the account for 1880 should be much larger.

The expenses from Jan. 12 to Dec. 31, 1881, are as follows:—

Salary of City Engineer and assistants . . . . .	\$1,561 50
Horse-hire and car-fares . . . . .	80 34
Stakes . . . . .	17 61
Drawing instruments and material . . . . .	97 39

Repairs of instruments . . . . .	\$29 35
Gas . . . . .	7 60
Fuel and incidentals expenses . . . . .	25 29
	<hr/>
Total . . . . .	\$1,819 08

## EXPENSES FOR SOLDIERS' MONUMENT.

Repairs of fence . . . . .	\$1 08
Repairs of leak in valve . . . . .	11 55
Repairs of sprinklers . . . . .	1 00
Cutting grass . . . . .	3 50
Cleaning lamps for the year . . . . .	6 00
Removing, repairing, and putting on cover . . . . .	6 90
Gas . . . . .	36 66
Water . . . . .	25 00
	<hr/>
Total . . . . .	\$91 69

Two globes have been broken this year, but no new ones were bought, as there was a supply on hand.

At the beginning of the year, the city government decided that the City Engineer had no right to occupy a room in the court-house, accordingly one of the halls in the old part of the engine-house was fitted up for that purpose. This had to be furnished with entirely new furniture, as there was nothing in the old office belonging to the city. The expense of this removal is not included in the expense of running the office. The new quarters are more convenient, and accessible to the work, than the old, but are not light enough, there being only one window. Some action must be taken to furnish more light, as stormy days we are obliged to burn gas nearly all the time.

The amount of work on the different highway districts is as follows:—

## DISTRICT NO. 1.

GEORGE F. HAMBLETT, SURVEYOR.

Five rods turnpiking, River road.  
 Fifteen rods turnpiking, Elm street near D. Ready's.  
 Seventy-five rods turnpiking, Elm-street extension.  
 One stone culvert, Elm-street extension.  
 Fence built near George H. Clark's.

## DISTRICT NO. 2.

WARREN HARVEY, SUPERINTENDENT.

## BLOCK PAVING.

Elm street, north line of Green to north line Short street . . . . .	2,004 square yards.
Hanover south back street east of Elm back street . . . . .	120.5 sqr. yards.
	<hr/>
Total block paving . . . . .	2,124.5 sqr. yards.

## COBBLE PAVING.

Elm street, Grove to Short street	2,004 square yards.
Elm east back street, Hanover to Amherst . . . . .	428 square yards.
Elm east back street, south of Man- chester . . . . .	190 square yards.
Hanover north back street . . . . .	389 square yards.
West Central street gutters . . . . .	428 square yards.
Park street at school-house . . . . .	89 square yards.
	<hr/>
Total cobble paving . . . . .	3,528 square yards.
Total paving . . . . .	5,652.5 square yards.
Amount on hand in city yard . . . . .	16 square yards.

## MACADAMIZING,—NEW.

Lowell street, Chestnut to Walnut	4,042 square yards.
West Central street, Elm to Franklin . . . . .	635 square yards.
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Total, new . . . . .	4,677 square yards.

## TOP-DRESSING.

Hanover street, Chestnut to Maple street . . . . .	1,990 feet.
Park street, Pine to Wilson street . . . . .	2,832 feet.
Granite street, Canal to Elm street . . . . .	783 feet.
	<hr/>
Total top-dressing . . . . .	5,605 feet.

## GRAVELED.

Appleton street, Elm to Chestnut street . . . . .	558 feet.
Amherst street, Vine to Union street . . . . .	1,150 feet.
Amherst street, Maple to Ashland street . . . . .	1,120 feet.
Arlington street, Maple to Ashland street . . . . .	1,350 feet.
Beech street, Hanover to Manchester street . . . . .	220 feet.
Concord street, Chestnut to Maple street . . . . .	1,990 feet.
Hanover street, Maple street to Mammoth road . . . . .	5,227 feet.
Hall street, Central to Laurel street . . . . .	210 feet.
Lincoln street, Park to Spruce street . . . . .	220 feet.
Lowell street, Hall to Highland street . . . . .	1,810 feet.
Pine street, Hanover to Bridge street . . . . .	1,420 feet.
Park street, Elm to Chestnut street . . . . .	570 feet.
Park street, Wilson to Cypress street . . . . .	2,222 feet.
Pearl street, Russell to Linden street . . . . .	400 feet.
Spruce street, Elm to Chestnut street . . . . .	570 feet.
Union street, Clarke street to Hooksett road . . . . .	1,900 feet.



Union street, Amherst to Lowell street . . . . .	610 feet.
Valley street, Elm to Willow street . . . . .	220 feet.
	<hr/>
Total . . . . .	21,767 feet.

## GRADED AND GRAVELED.

Maple street, Hanover to Amherst street . . . . .	270 feet.
Sagamore street, Pine to Union street . . . . .	446 feet.
Linden street . . . . .	480 feet.
Warren street, Bridge to Pearl street . . . . .	450 feet.
	<hr/>
Total . . . . .	1,646 feet.

## GRADED, NOT GRAVELED.

Belmont street, Merrimack to Central street . . . . .	470 feet.
Clarke street, . . . . .	417 feet.
Willow street, Valley to Merrill street . . . . .	220 feet.
	<hr/>
Total . . . . .	1,107 feet.

Total graded and graveled . . . . . 24,520 feet.

Equal to four and two-thirds miles.

All other main streets have been repaired. Appleton street, Chestnut to Union, has been partly graded.

The grade of Elm street at Ray brook has been raised five feet, requiring 2.593 cubic yards of filling. The retaining-wall on the east side has been raised five feet and extended, a new one built on the west side, the two requiring 720.2 perches of stone.

By this improvement the valley at Ray brook has been nearly filled, and the street increased in width from about thirty feet to fifty feet.

The excavation required for the paving at the south end of Elm street was 5,345 cubic yards, which was used in filling the hollow at the foot of Valley street.

There have been put in four stone, and thirty-seven concrete, crossings.

## SEWERS AND DRAINS.

Bridge street, from Merrimack river to lower canal, 388½ feet of 3½ feet circular brick sewer . . . . .	81,391
Bridge street, between canals and to center Canal street, 196.5 feet of 3-foot circular brick sewer . . . . .	37,610
Bridge street, from center Canal street to Elm street, 761 feet 2' 8" x 4' egg-shape brick sewer . . . . .	108,823
Bridge street, under canals. 187½ feet 3-foot circular iron pipe, besides two manholes and brick piling west of upper canal, requiring about . . . . .	3,000
	<hr/>
Total amount of brick . . . . .	230,824
Total length of sewer. 1,533½ feet.	

## AKRON PIPE SEWERS.

Olive street, 15 inch . . . . .	302 feet.
Canal and Auburn streets, 12 inch . . . . .	933 feet.
Cedar south back street, 12 inch . . . . .	684 feet.
Elm west back street, 12 inch . . . . .	913 feet.
Harrison street. 12 inch . . . . .	909 feet.
Manchester south back street. 12 inch . . . . .	1,215 feet.
Spruce south back street, 12 inch . . . . .	637 feet.
Beech east back street, 10 inch . . . . .	285 feet.
Concord street. 10 inch . . . . .	380 feet.
Cross street, 10 inch . . . . .	350 feet.
Hazel street, 10 inch . . . . .	370 feet.
Nashua street, 10 inch . . . . .	1,230 feet.
Olive street, 10 inch . . . . .	30 feet.
Wilson street, 10 inch . . . . .	260 feet.
	<hr/>
	8,498 feet.

Hanover south back street, 12-inch Portland, relaid . . . . .	150 feet.
	<hr/>
Total . . . . .	8,648 feet.

Catch-basins built, 37.

Some sewers ordered by the committee have not been built, owing to the delay in getting pipe until late in the season, when the pressure of other work necessitated their postponement.

## CONCRETING.

Cross-walks . . . . .	787.4 square yards.
Walk in Concord square relaid . . . . .	220.0 square yards.
Top-dressing . . . . .	84.7 square yards.
Walks in and around school-yards . . . . .	542.9 square yards.
Repairs to walks necessitated by city work . . . . .	177.9 square yards.
	<hr/>
Total . . . . .	1,812.9 square yards.

I have kept no account of concrete walks laid by individuals.

## NEW HIGHWAYS.

Hazel street, Harrison to Brook street.  
Spruce street, from Wilson street to old Falls road.  
Appleton street, from Chestnut to Union street.  
Sagamore street, from Pine to Union street.  
Prospect street, from Linden street to Derry old line.  
Olive street, Amherst to Concord street.

## MCGREGOR BRIDGE.

The stone-work for raising and extending McGregor-bridge trestle was done by the laborers, under the direction

of the superintendent of district No. 2. The amount of stone required for this work was 526.4 perches, and 64.7 feet of coping, which was purchased rough, and dressed by the city laborers. There remain to be put in 27 perches of parapet walls at the lower deck of the canal bridge, and end of trestle, not included in the above.

### DISTRICT No. 3.

HENRY C. DICKEY, SURVEYOR.

No report of work done.

The old Smith's Ferry road, from the Merrimack river to the River road at Pine Grove Cemetery, which was surveyed by Mr. Stevens, has been relocated by me, plan made, and stone bounds set at all the angles, in the center of the street. This road is two rods wide, and I find that the fences on the north side are in the street from three to ten feet, and one building, belonging to Major Ingham, is also in the street.

### DISTRICT NO. 4.

C. C. WEBSTER, SURVEYOR.

GRADED.

One-half mile, location not stated.

Derry hill, at Goffe's Falls.

Cohas hill, and from Cohas hill to Bakersville line.

There have been used in general repairs, in addition to the above, 500 loads of gravel.

### DISTRICT NO. 5.

CHARLES A. PIERCE, SURVEYOR.

No report.

## DISTRICT NO. 6.

I. T. WEBSTER, SURVEYOR.

Turnpiked,  $1\frac{1}{2}$  miles.Graded,  $1\frac{1}{2}$  miles.

Built, 2 new culverts ; rebuilt, 3.

The abutments of the bridge across the water-works road have been raised  $2\frac{1}{2}$  feet, and the necessary fill made.

1,400 feet of railing have been built.

## DISTRICT NO. 7.

HENRY S. HORTON, SURVEYOR.

No report.

## DISTRICT NO. 8.

JEREMIAH GARVIN, SURVEYOR.

In this district are  $9\frac{1}{2}$  miles of road, of which 2 miles have been graveled, 1 mile turnpiked, besides the cutting of brush, and general repairs.

## NEW HIGHWAY.

Proctor road, from Lake Shore road to lake.

## DISTRICT NO. 9.

J. J. GARMON, SURVEYOR.

In this district there has been expended \$403.02. I have no report of the nature of the work. A gravel bank of  $1\frac{2}{3}$  acres has been purchased this year.

## DISTRICT NO. 10.

FRED. S. WORTHEN, SUPERINTENDENT.

## PAVING.

Granite street, blocks relaid . . . . .	946 square yards.
Granite street, cobble relaid . . . . .	296 square yards.
Gutters in various places . . . . .	640 square yards.
	—
Total . . . . .	1,882 square yards.

## SEWERS AND DRAINS.

Parker street. 12-inch Akron . . . . .	448 feet.
Parker street. 10-inch Akron . . . . .	406 feet.
Douglas and Green streets. 10-inch Akron . . . . .	368 feet.
Mast street. 15-inch Akron . . . . .	51 feet.
Drains in various locations . . . . .	96 feet.
	—
Total . . . . .	1,369 feet.

Catch-basins, 18.

Stone crossings, 1.

Concrete crossings, 5.

## GRADING.

West Bridge street has been graded, gutters paved, and sidewalks graveled. A large portion of this street, which was excavated last year, had to be refilled to bring it to grade.

Main street, graded from Douglas to West Bridge street, sidewalks filled from 2 to 4 feet almost the entire length.

Winter street, graded and gutters paved.

Green street, graded.

West street, graveled.

B street, graded.

North and South Main street school-yards, graded.

There has also been an unusual amount of graveling for concrete walks, as nearly all were built in low places.

Total amount of grading, 9,143 cubic yards.

In addition to the above, Parker street has been partially graded, probably 1,000 yards. This will have to be completed next year.

#### NEW HIGHWAYS.

Parker street, from Main street to the Manchester & North Weare Railroad.

#### GRANITE BRIDGE.

During one of our heavy rains, the first of October, the retaining-wall on the south side of Granite street, at the west end of Granite bridge, was partly washed out, and the foundation so badly weakened that it was necessary to rebuild the whole. Upon removing the old wall it was found to consist of rough cobble-stones, very poorly laid, without any foundation, and very thin. A new wall was built upon a rubble foundation, 12 inches thick and 12 feet wide. The new wall was 10 feet wide at the base,  $3\frac{1}{2}$  feet at the top, and an average of 19 feet in height.

Total amount of stone, 122.6 perches of old, and 74.6 perches of new.

The excavation and back filling were under the direction of Mr. Fred S. Worthen, superintendent of this district.

The paving in Granite street at this place has not been relaid, owing to the lateness of the season.

#### CONCRETE.

Crossings . . . . .	118.7 square yards.
Walks in and around school-yards . . . . .	553.12 square yards.
	<hr/>
Total . . . . .	671.82 square yards.

## DISTRICT NO. 11.

JAMES E. BAILEY, SURVEYOR.

## MACADAMIZING.

Eddy hill . . . . .	1.014 square yards.
West end of Amoskeag bridge . . . . .	1,139 square yards.

Total . . . . .	2,153 square yards.
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Paving. 41.3 square yards.

Drain for watering-trough. 357 feet. 4-inch Akron pipe.

A stone watering-trough has been erected on Front street, near the old hotel building.

## DISTRICT NO. 12.

FREDERICK ALLEN, SURVEYOR.

There has been no special work in this district. The usual general repairs have been carefully attended to.

## DISTRICT NO. 13.

JOSEPH P. FELLOWS, SURVEYOR.

No report.

Although the office has been in existence two years, I found it sadly deficient in many of the essentials of such an office. The plans and profiles belonging to the city had never been arranged in any order; there was no index, or catalogue of plans; the field and record books had not been indexed. This neglect was the cause of an immense amount of labor, as no information could be obtained without examining each and every plan separately and reading every page of the record-books, it sometimes requiring days to get together a very small amount of information of any particular work.



The instruments belonging to the city were a transit and level, taken from the water-works, which had been badly used, and at that time were unfit for service. They had to be entirely overhauled, recentered, etc., at an expense of twenty-five dollars. There was one level-rod which had been split its entire length, and mended. It will do for rough work, but for fine work, which must be done next year, it will be necessary to have a new one. There were also one four-rod chain, purchased at an expense of \$12.60, which has never been used, and might be exchanged for other supplies; one fifty-foot chain, which should never be used in the city proper; and one set of chaining-pins. There were no tapes, plumbs, or drawing-instruments,—three very important articles.

I have purchased, and now have belonging to the city, in addition to the above, one one-hundred-foot steel tape, and two plumbs, also one set of dividers, one spring-bow pen, one spring-bow pencil, one drawing-pen, two needle-points, one two-feet, one one-foot, and one six-inch triangular scale, and six curves. These, in addition to my own private property, which I have furnished freely for the use of the city, were sufficient for the use of two men in the office. It will be necessary for the city to furnish a large additional supply of instruments at an early date, as no engineer can afford to furnish, with the present salary, four or five hundred dollars' worth of drawing and surveying instruments, as has been done by Mr. Stevens and myself.

As the office of city engineer is yet in its infancy, the public have a very indefinite idea of the amount of work required of the engineer, and, for the information of such as care to read and post themselves, I will make the following statement of the work done in this office:—

The City Engineer is subject to the call of the mayor, all committees of the city government, and every citizen

who desires to build a house, fence, or sidewalk ; and there are daily calls for street lines and grades, work which will require from one half-day to one week to perform. Of such orders, there have been, this year, 450 since March 1 ; also, 150 different jobs of setting grades for sewers and paving, not included in the above.

There have been made, of profiles, 47,061 feet, equal to  $8\frac{9}{10}$  miles.

Sidewalk grades set, 21,154 feet, equal to 4 miles.

Gutter grades set, 2,813 feet.

Grades for cutting and filling streets, 3,488 feet.

Grades for macadamizing, 1,416 feet.

Street numbers assigned, 120.

Lots laid out at Pine Grove Cemetery, 112.

Many street lines have been given, but no measurements taken, besides special surveys, and other work with committees, etc., that cannot be classed as above.

#### PLANS AND PROFILES.

There were in the office, Jan. 1, 1881, the following : —  
226 plans of streets and lands.

87 tracings of Amoskeag company's lands.

138 profiles of streets and sewers.

3 rolls of bridge plans.

100 maps.

2 books of street numbers.

Of these plans, many of them are old and made on poor paper, have received hard usage, and are so badly torn as to be nearly worthless. It will be necessary to copy them on mounted paper, so as to preserve them. The tracings are all on very thin tracing-paper, and unfit for common use, and will have to be copied in the same manner.

There have been made, this year, the following plans and profiles : —

Hanover street, from Elm to Union, showing all buildings on both sides of the street, also fixing street lines, plan.

Clarke street, plan and profile.

Appleton street, plan and profile.

Elm street, Webster to Clarke street, plan and profile.

Square bounded by Franklin, West Cedar, Canal, and Granite streets, fixing street lines ; also, back street,— plan.

Webster street, plan and profile.

Sagamore street, Pine to Union, plan and profile

Amherst street, Pine to Union, plan and profile.

Hazel street, plan and profile.

Spruce-street extension, Wilson to old Falls road, plan and profile.

Concord street, Beech to Arlington, plan and profile.

B street, plan and profile.

Hanover north back street, Elm to Chestnut, plan and profile.

Parker street, plan and profile.

Hanover south back street, Elm to Chestnut, plan and profile.

Milford street, plan and profile.

Elm west back street, West Bridge to Dean, plan and profile.

Manchester street, Lincoln to Hall, plan and profile.

Prospect-street extension, Linden street easterly, plan and profile.

Belmont street, Hanover to Massabesic, plan and profile.

Canal street, Granite to West Auburn, plan and profile for sewer.

West Auburn street, Canal to Franklin, plan and profile for sewer.

Manchester south back street, Union to Maple, plan and profile for sewer.

West Bridge street, Elm to River, plan and profile for sewer.

Main street. Granite to D. Farmer's, profile for water-works.

McGregor street, profile for water-works.

Beech east back street, Amherst to Concord, profile for sewer.

Elm-street extension, profile for turnpiking.

Coburn land, known as assessors' plan. Copy.

Proposed changes at McGregor bridge.

Proposed changes at McGregor bridge. Copy from J. B. Sawyer.

Improvements at city-farm buildings.

Furnishing of city treasurer's office.

Concord-square improvements.

Lots at Pine Grove Cemetery.

Gravel bank bought for district No. 9.

Douglas and West streets, suit of Clark vs. City.

Fifty sheets for street-numbering books.

Totals plans completed. 88.

#### PLANS UNDER WAY BUT PARTIALLY COMPLETED.

Nashua street. for fixing sidewalk grade, plan and profile.

Nashua street. for sewer, plan and profile.

Cedar south back street, Union to Maple, sewer, plan and profile.

Quincy street, plan and profile.

Douglas street. plan and profile.

Green street, plan and profile.

Elm east back street, Hanover to Amherst, plan and profile.

Valley Cemetery improvements.

Olive street, profile for sewer.

Cross street, profile for sewer.

Maple street, Hanover to Lowell, plan and profile.

A street, plan and profile.

C street, plan and profile.

Lowell street, Chestnut to Walnut, plan and profile.

Harrison street, Walnut to Russell, sewer, plan and profile.

Smith's Ferry road, from River road to river, plan.

Spruce south back street, Union to Maple, plan and profile, sewer.

Total under way, 17.

There is also under way a plan of the square bounded by Hanover, Beacon, Spruce, and Wilson streets, for the purpose of fixing the street lines. the survey for which is but partially completed.

#### GRADES AND STREET LINES.

The old profiles of streets in the city simply show the center lines, and are of no value for sidewalk grades, as they show nothing of the condition of the sidewalks, which in many cases vary two or three feet from the center grades. I have introduced the custom in use in the city of Boston, of making the plan of the street in the center of the sheet, showing the fences and the buildings as they actually exist on the ground, and the street lines as they are finally established. On the sides of the sheet are the profiles of the corresponding sides of the street, showing the elevations of the sidewalks, fences, and fronts of the houses, as they actually exist, together with the grades of each sidewalk as they are finally established.

In years past, it has been the custom for an engineer, employed by the day, to set grades for walks and fences.

These grades, not being legally established, there was nothing to compel the abutters to follow them, and in many cases they were changed, either by the abutter himself, or the mayor, committee on streets, or superintendent, any one of whom could legally do so. Of these changes we have no records, and the result of it, together with employing different engineers, has been to get the grades of the city in a very confused state. In order to remedy this evil, I caused to be passed, early in the season, an ordinance fixing the manner of establishing the grades, and preventing any person's changing the grade so established except by vote of the city government. In order that this ordinance may be successfully carried out, it will be necessary to make new profiles of all the streets, in the manner shown above. After this is once done, and the grades of every street established by vote of the city government, and all work in the future done in accordance with those grades, we shall hope to see the present irregularities of surface and the many stumbling-blocks in our sidewalks gradually removed, and we shall no longer hear the old complaint of our citizens, that they cannot get the grade twice alike.

#### STREET LINES.

It is necessary to call the attention of this city government to the condition of the street lines. Our records refer to plans, stone monuments, and stakes. These stakes have been destroyed by time; the stone monuments were many of them imaginary, having no existence except on paper, of the few that were set, most of them have been removed, or displaced by the numerous excavations to which our streets have been subjected, for sewerage, gas, and water, so that at present there are scarcely a dozen that are reliable, and those not in any way connected. The older

parts of the city were laid out by the Amoskeag company. Their plans show the measurements from street to street, and it would seem that with these plans we could easily locate our street lines, but just here we meet our greatest difficulty: the first streets were laid out by the United States standard measure, but in after years it was found that many errors had crept into the work, and in order to give every man his due amount of land a new measure was adopted,  $\frac{2}{3}$  of an inch in 25 feet, or  $1\frac{1}{2}$  inches per 100 feet, longer than the standard, which has ever since been used; but, unfortunately, no record was kept of the time when this change was made, or of what streets were laid out by one measure and what by the other.

Then as we pass off from the company's land, we find the streets and squares were laid out by other surveyors, who used chains or linen tapes of unknown lengths, as these measures are constantly increasing in length by use. Again, there is one portion of the city east of the company's land which has no connection, on the plans, with the company's plans, so that we do not know the distance from the company's east street to the first street beyond their line. I know of streets in the city that are not within five feet of where the plans say they should be. Other streets which the records say are straight and continuous, have offsets of ten feet after passing the company's east line.

I can see no other way to straighten out this matter except to make a complete and accurate survey and plans of the entire city, and locate the street lines, by reference to other plans and deeds, as nearly as possible in their original position. With these surveys and plans, they will be permanently fixed, and this evil, which is productive of more law-suits than any other one thing, will cease to exist.

The sooner the city government takes hold of this matter of street lines and grade, the better it will be for the

citizens ; and it can be done cheaper now than it can years hence. I have endeavored to make a beginning in this work, but it is impossible to attend to the current work and this special work at the same time, with the force now employed in this office. I would suggest that a special appropriation be made, and a party of three put on for this work, that it may be done up before the matter becomes more serious than it is.

#### STREETS.

We are constantly hearing complaints of the condition of our streets and sidewalks. This will always be the case so long as our citizens are required to build their sidewalks at their own expense, or go without. The city of Manchester is years behind the times in this matter, as in many others. Chapter 78 of the General Laws gives the city the right to build the sidewalks, and then charge the abutters with one-half the expense. This custom of the city's building the sidewalks is almost universal ; yet we are behind even our sister city of Concord, which adopted the law in 1879. Our sidewalks, particularly the brick ones on Elm street, are a disgrace to the city and unsafe for travelers, as has been illustrated several times this year and in years past. Enough has been paid as damages for bodily injuries to have given us good sidewalks in every part of the city. One case alone, not counting the expense of court, would have given us two miles of concrete sidewalk. It is argued that the tax-payers will not submit to it. I claim that there is not a tax-payer in the city, but would rather his fifty or one hundred dollars should be spent for a good sidewalk — that he, in common with the general public, can enjoy — than be paid for broken bones.

Another exceedingly dangerous and unsightly feature of our streets is the stone guard-posts at the corners. Car-



riages and sleighs, particularly the latter, when the snow is deep, are repeatedly smashed upon them; and they may some day cost a life, should a team become unmanageable and the occupants thrown against one. These should be removed and circular curbs put in their place. I am pleased to find that circular curbs are coming into use, and I hope to see them more generally adopted. But we are making one mistake in this matter; instead of availing ourselves of the experience of older cities, and commencing at the point they have reached, we are commencing where they did, and shall have to travel over the long road of time and experience that they have gone before. I refer to the using of small curves of two-foot radius. In Boston these are all being taken out and larger ones put in. In this city, where our sidewalks are nearly uniformly eight feet wide, curbs of eight-foot radius should be used, giving three and one-half feet more room for teams at each corner of our narrow streets, and five and one-half feet at each side of the streets joining Elm street.

A word in regard to the maintenance of our roadways, which need special attention in a city that has so little paving and macadamizing. One great mistake made, is the constant putting on of material and never taking any off: for instance, twelve inches of gravel are put on a roadway; this in a few years wears down about four inches, when the surface becomes rough and dangerous, then another coating of twelve inches is put on. The result is, that our streets are constantly filling up; in a short time our paved sidewalks become buried, and the engineer going to set a grade finds the old walk too low, raises the grade, makes a step in the walk, and then follow the usual vexatious and expensive law-suits for grade damage, etc. This is all wrong: after a grade has once been established, no top-dressing should be put on without grade being set, and the road-bed

prepared, by excavating, to receive the proper thickness of gravel. I desire to call the attention of the committee on streets particularly to this point.

I find that our graveled streets are never rolled except by the ordinary street traffic. If they should be thoroughly rolled and compacted, first, with the two-ton iron roller which the city now owns, then, with a six-ton granite roller so constructed that it can be loaded to twelve tons, the increased life of the road would more than pay for the extra labor.

#### MACADAMIZING.

I do not think enough attention is given in this city to this branch of road-making. If properly constructed, I think this is the best pavement for a city like Manchester. There are two kinds of broken-stone roads,—the Telford, consisting of broken stone upon a foundation of blocks carefully laid by hand, like block paving; the Macadam, consisting of layers of broken stone of different sizes, the largest at the bottom, but without a paved foundation. The second is what we need in our dry, sandy soil. This year the city has tried to do too much work with the money at its command; and, although the streets so prepared are much better to-day than they were before, I do not think they will wear long enough to pay. In our dry soil it does not require much preparation for the foundation; but one of the important features in the construction of a good Macadam road is sadly neglected here, that is, the rolling. The first course should be about four inches thick, of stone of from  $1\frac{1}{2}$  to 2 inches in diameter, then carefully rolled, first, with the two-ton roller, and the weight gradually increased; if the weather is dry, the surface should be kept moist by sprinkling; after this has become compact, another course four to six inches thick should be put on and

treated in the same manner, but finished with a heavier roller; then the top-dressing of one inch of fine screened gravel should be put on, and rolled with a twelve-ton roller. During all this rolling, men should be constantly employed in raking in the ruts, leveling bunches, and removing such loose stones as may work to the surface. The final rolling should be continued until the heavy roller no longer makes a wave before it.

After a Macadam road has been constructed, great care should be observed in its maintenance: the surface should be swept at least once a week, and kept perfectly free from dust and mud,—the two worst enemies of a Macadam road. The city last year purchased a sweeper, but I have never seen it in use except on Elm street. There is as much need of it on the few macadamized streets. When a rut begins to form, if taken at once, a shovel full of broken stone spread over it will soon make it as good as new; if the break becomes large, let the edges be loosened up with a pick, the large stones removed, and a few loads of broken stone spread over it, and rolled. When the entire surface becomes worn and broken, as was the case with Park street, this year, let it be picked up, the larger stones that have worked to the surface broken with cracking-hammers, the whole then carefully rolled, and a new top-dressing put on; but, if properly cared for, this last would not be necessary for many years.

A good substitute for a Macadam road is coarse gravel spread on the street about twelve inches thick, the larger stones then cracked with the sledge, and then the whole gone over carefully and cracked with the long-handled cracking-hammers, such as are used in other cities, until no stone over two inches in diameter is left, this being carefully rolled and compacted, then covered with one inch of good screened binding gravel.

## SEWERS.

In discussing this subject, I can but repeat what my predecessor has already said in his report for 1879; that, although as favorably situated as any city in the world for good drainage, yet we are but poorly supplied with this essential element for the preservation of the life and health of our citizens. One of the great defects of our system of sewerage is, that the sewers are laid too near the surface of the ground, and of too flat grades for the work they are required to do. These were well enough when all that was required was to carry sink water; but in these days of water-works, and the attendant comforts which always follow the introduction of water,—bath-rooms, and water-closets.—it is necessary to lay the sewers on a grade steep enough to carry away any solid matter that may find its way into them, and deep enough to drain all cellars. A great part of the appropriation for sewers is expended in relaying old ones. This year the sewer in Manchester south back street, from Union to Maple, was relaid. The old pipe was but three feet below the surface, and filled with sediment from two inches deep to the full diameter of the pipe.

It was also necessary to lower the sewer in the rear of Boshers' block, in order to drain his cellar. The sewer in Spruce south back street, which was built last year from Union street half-way to Beech street, was extended this year nearly to Maple street. On opening this sewer to make the connection, three inches of sediment were found in the bottom, owing to its flat grade.

Care has not been taken in years past, in the proper graduation of the sizes of the sewers: for instance, a twelve-inch sewer has been laid in a level section, with a grade of four inches per hundred feet, then extended up

hill, on a grade of four feet per hundred, the same size as below. In consequence of the steep grade's delivering its contents much faster than the flat pipe can take care of it, the sewage backs up into the arms and floods the cellars. Again, our sewers are not properly ventilated, and become filled with gas, leaving no room for water. This matter of ventilation should be looked into, and more generally applied in this city. Although I have had all manhole covers made this year with perforations to aid the escape of gas, this alone is not sufficient, unless more manholes are built. A system of periodical flushing would materially aid in cleansing sewers of flat grade. I have endeavored this year to give all sewers a grade steep enough to make them self-cleansing, although in three cases I was unable to do so, on account of the sewers with which they connected being so near the surface; these were the Spruce south back street, Park south back street, and Douglas street. In my endeavors to find an outlet for the Douglas-street sewer, I found that the whole system of sewerage in 'Squog lies so near the surface that cellars cannot be drained, and so flat that water-closet excrement cannot be carried in them. The sewers of 'Squog will have to be entirely relaid before many years. I would suggest to the committee on sewers that George E. Waring, or some other expert sanitary engineer, be employed to look over our entire system of sewerage, and advise some systematic system of procedure.

This matter of drainage is one that should be attended to immediately, some system adopted, and the appropriation for sewers used in carrying out that system, instead of putting in sewers here and there indiscriminately, as they are asked for by different petitioners; then in time all will be accommodated, and in a much more satisfactory manner than they possibly can be by the present system.

I wish to call your attention to two sewers which should be built soon.—one in Elm street from Harrison to Clarke street, and a new one the entire length of Bridge street to intercept the sewage north of that street, and turn it into the new sewer built this year.

#### CATCH-BASINS.

Many of our catch-basins are a public nuisance, emitting odors so powerful as to take a man's breath as he passes by. There has been some talk, but not much action, in regard to this matter. The catch-basins are but poorly trapped, and not sealed at all, particularly in a dry time. The sewer gas then passes freely into the basin, and is delivered full strength into the nostrils of the passing people. This can be remedied by keeping the outlet of the basin constantly sealed with a water-trap. In the hot and dry seasons, when these things are most offensive, let care be taken that they are so sealed, and, if need be, let water be turned into them from the hydrants often enough to keep up with the evaporation. They should be carefully cleaned out at least four times a year. With these cleansings and plenty of water, we could pass along Elm, Hanover, and Manchester streets, without fear of contagion.

I desire to recommend to the committee a different kind of catch-basin from what is in use here. It is what is known as the "Providence catch-basin," it having been used by that city many years; it was adopted by the city of Boston about six years ago. It is a simple, plain, brick well, without any partitions, with a circular opening of six or eight inches' diameter, in the side, for the arm; this outlet is closed with an iron cover shaped something like a flour-scoop, covering the outlet and projecting four inches below, the edges of this cover resting against the brick-work and the face about six inches from it, leaving a hori-

zontal opening under the outlet, between the cover and the brick-work, six by ten inches ; this cover is hinged to an iron plate, 4 in. by 8 in. by  $\frac{1}{4}$  in., and takes the place of the mortar between two bricks. The advantage of this basin, besides being cheaper, is that the cover to the outlet can be raised, and the plain sides of the basin thoroughly cleansed of such matter as is liable to collect and decay. By keeping the bottom of this cover always under water, a perfectly sealed trap is secured. I cannot say too much of the importance of water in our cesspools, and I wish to impress it upon the minds of the committee that the remedy for this nuisance is simple and easily tried.

We have been troubled this year, as in years past, with the grates of catch-basins becoming covered with mud, leaves, sticks, etc., thus preventing the water entering during a heavy rain. It being necessary to put a catch-basin in the rear of the Opera block, I tried the experiment of having the gutter in the center of the street, as is necessary in our twenty-foot streets, with the catch-basin under the sidewalk and the entrance cut into the curb-stone, instead of being in the middle of the street, with a flat grate. I found by this experiment that the gutter could be turned into this side basin without materially injuring the surface of the street for a driveway. Being assured of the success of this experiment, I recommended that no more catch-basins with grates be used, but that in places where there was no curb, a piece long enough to reach across the basin be set, and the entrance to the basin cut therein, which recommendation was unanimously adopted.

#### CEMETERIES.

At the Valley Cemetery a new avenue has been built on the east side, across the ravine and parallel with Pine street, the stone arch over Cemetery brook having been ex-

tended twenty-eight feet west, with wing walls on the north and south sides. One-half of the lot conveyed to the city by D. W. Fling was taken to make the connection with the old avenue parallel with Pine street. An avenue has also been constructed from the new one to the lower level of the ravine. There were used in the construction of these avenues 452.3 perches of stone and 3,370 yards of earth. The object of this work was to make a connection between the northwest and southeast sections of the cemetery, for teams.

At the Pine Grove, a new plat, bounded by Laurel and Floral avenues, has been laid out into lots, according to the Forest-Hill, or what is known as the "lawn," system, certain restrictions placed upon them, and the price increased to an amount sufficient to insure their receiving perpetual care from the city. There are one hundred and seven of these lots, varying in size from fifteen to twenty-two feet square.

Much needs to be done in our cemeteries, in years to come, towards beautifying and adorning them. Nothing has been done to render them pleasing and attractive to the eye. In other cities it is the custom to have in their cemeteries as many attractive features as possible, in the shape of flower-beds, ponds, fountains, arbors, and shaded paths; in fact, landscape gardening is carried to perfection in the principal cemeteries at the present time. Nothing is lost by the addition of these features, for lots adjoining them can be sold for a higher price, sufficient to pay for the small amount of land reserved.

#### COMMONS.

The only work of importance on our commons this year has been the filling of the old pond on Concord square, raising the grade of a portion of the same square, also of



one of the cross-walks, and the erection of a new fountain in place of the old pond. I would say of the basin of this fountain, that it was made the size that the manufacturers called for in their description, but it is not by any means large enough for the place.

#### BRIDGES.

The new bridge, at the foot of Bridge street, has been completed this year. Last year the piers and abutments were built, the canal bridges partially completed, sufficiently to be used, and the iron-work in place on two spans. The remainder of the iron-work, and the stone-work for the east trestle, were completed August 10, 1881. At its completion the city government voted to name it McGregor bridge. August 12, the city government and invited guests inspected the bridge, and a committee, consisting of the City Engineer, Hon. N. S. Bean, Mr. Charles Hutchinson, and Col. J. T. Fanning, civil engineer, were appointed to make a thorough examination and test of the bridge, to ascertain if the terms of the contract had been complied with. Four days were spent in this examination: the workmanship and the quality of the iron were carefully examined and thoroughly tested. August 17, a strain test was made by loading the bridge with teams, hauling an aggregate load of 53.8 tons. Seven tests were made in various ways, calculated to subject the bridge to as severe strains as will be likely to come upon it at any future time. These tests and examinations were in the main satisfactory to the committee. A more full account can be found in the report made to the city government by this committee. A copy of the diagrams taken in various places upon the bridge during the testing, accompanies that report. The original diagrams can be seen at any time at the City Engineer's office.

Many of the citizens being dissatisfied with the grade of the east trestle, as built, and the Stark corporation desiring it to be raised in order to give them access to their new buildings on the lower level, the city government decided to make the change. For this work the Stark corporation pays \$3,000, the Amoskeag purchased the bridge across the lower canal for \$2,000, and the city agrees to pay the balance. The change consists of a new double-deck bridge across the lower canal, with two driveways on the lower deck, separated by the center truss of the bridge. The end of the trestle has been raised  $9\frac{1}{2}$  feet, and is to be extended to the upper deck of the canal bridge, and a new trestle from the east end of the canal bridge, fifty feet east. In order to give a driveway from Canal street to the lower level, the Amory corporation allowed eleven feet of their land to be used for that purpose, which, with the five feet of unoccupied street land, gives a sixteen-foot passage-way at the north side of the trestle abutment. The stone-work consisted of raising the piers upon which the trestle rested to the required height, building nine additional piers, taking down the old lock wall and the two walls of the lower canal, building an abutment at the east end of the new trestle, 40 feet long and 14 feet high, and a retaining-wall from the north end of the abutment, 64.7 feet east, to separate the higher and lower grades. This stone-work is all completed, so far as it can be done until the iron is in place. There is some delay with this work, owing to the scarcity of iron, and the inability of the company to get their orders filled; for this delay they are not to blame.

#### AMOSKEAG BRIDGE.

This bridge has been thoroughly overhauled and repaired. A few timbers were badly decayed, and the bracing, which was simply spiked in place, had in many places

worked loose. The east end had also settled badly, owing to the decaying timbers. This has been raised, new timbers put in where decayed or broken, the entire bracing respiked, the exterior painted, and the interior white-washed.

PUBLIC BUILDINGS.

This not properly coming under the City Engineer's duties, all that I have done is to make plans for the improvements at the city-farm buildings, the furnishing of the City Engineer's new office, and the refitting and refurnishing of the city treasurer's new office.

Respectfully submitted.

GEORGE H. ALLEN,  
*City Engineer.*



REPORT  
OF THE  
COMMITTEE ON CEMETERIES.



# REPORT

OF THE

## COMMITTEE ON CEMETERIES.

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*To His Honor the Mayor, and City Councils of the City of Manchester:—*

GENTLEMEN,—The Committee on Cemeteries present their annual report.

### VALLEY CEMETERY.

As all committees into whose hands trusts are imposed, are required to render an annual statement, the Sub-Committee on the Valley Cemetery would most respectfully submit the following for the year 1881:—

The first work of your committee was the selection of a superintendent of the grounds. Mr. F. B. Balch, a well known citizen, was appointed, and has filled the position to the acceptance of your committee, and, we trust, to the satisfaction of all who have required his services.

A driveway connecting the east and west sides of the Valley has for a long time been needed, and, as additional appropriations were granted, it was decided that the contemplated enterprise should be accomplished this season. Accordingly, proposals from different parties were received for the stone-work and grading for the road-bed. Messrs.

D. W. Garland and J. A. B. Emerson's bid being the lowest, the contract was awarded to them.

The filling was very generously given by Col. T. L. Livermore from the company's land on the south of the Valley, effecting a great saving of time and expense to the city, for which we return our most hearty thanks. The work is now completed, and all who have examined it pronounce it well worth the expenditure. The introduction of city water, last season, on the east side met with such universal favor that it has been put in on the west side, affording free use of the same to all except where it was introduced into private lots, when a small tax is required.

Thus work is being done year by year to beautify and adorn the grounds, with such appropriations as are granted. For the coming season we would recommend that the sum of three thousand dollars be allowed, in order that the iron fence on the east side may be completed, and to continue the work, so far as possible, on the south or Willow-street side, in order that the grounds may, as speedily as possible, be properly inclosed. The financial statement for the year is as follows:—

*Receipts.*

Balance on hand Jan. 1, 1881 . . . . .	\$829 76
Appropriation . . . . .	1,500 00
Lot sold . . . . .	28 50
Tomb fees and water rent . . . . .	119 00
Reserved fund, amount transferred . . . . .	570 96
	\$3,048 22

*Expenditures.*

Care of grounds . . . . .	\$533 65
D. W. Garland, stone-work . . . . .	1,192 54
Manchester Water-works, water . . . . .	32 25



D. H. Varnum, teaming . . . . .	\$29 25
D. W. Fling, lot . . . . .	51 00
J. B. Varick, hardware . . . . .	3 75
Thomas A. Lane, iron pipes, etc. . . . .	300 97
H. H. Huntress, plants . . . . .	7 00
J. A. B. Emerson, grading . . . . .	750 78
Daniel Healy, whitewashing tomb . . . . .	1 50
A. H. Lowell, resetting posts . . . . .	30 00
J. B. Clarke, printing . . . . .	3 75
F. S. Bodwell, stone and labor . . . . .	64 00
A. J. Sawyer, lumber . . . . .	47 78
	<hr/>
	\$3,048 22

HOLMES R. PETTEE,  
WILLIAM G. HOYT,  
CHARLES E. BALCH,  
*Sub-Committee.*

PINE GROVE CEMETERY.

The Sub-Committee on Pine Grove Cemetery respectfully submit the following report for the year 1881 : —

*Receipts.*

Cash on hand, as per last report . . . . .	\$830 32
Appropriation . . . . .	500 00
Receipts from sale of lots and wood . . . . .	1,205 22
Lumber sold . . . . .	80 00
	<hr/>
	\$2,615 54

*Expenditures.*

Salary of superintendent . . . . .	\$604 71
J. F. James, salary as treas., and laying out lots . . . . .	79 37
Palmer & Garmon, grave numbers . . . . .	112 00

Grading lots and avenues, and graveling . . . . .	\$592 44
S. P. Moody, cutting wood and lumber . . . . .	26 66
Incidental expenses . . . . .	70 97
Cash on hand . . . . .	1,129 39
	<hr/>
	\$2,615 54

During the year a large amount of grading and graveling has been done upon the main avenues, which has tended to make the driveways more attractive, and generally improved the grounds. We would recommend that the work be continued until all the leading avenues adjacent to the improved lots are thoroughly graveled.

A plot of ground northeast of the tool-house, comprising about one and three-fourths acres divided into one hundred and seven lots, has been laid out on the "landscape lawn" plan, which is being adopted in many of the finest cemeteries in the country. This plan was fully considered by the committee, and adopted after consulting with many of our citizens interested in the Pine Grove, and it is believed will meet the wishes of all who desire this cemetery kept up, in some degree at least, to modern ideas of beauty and attractiveness.

The general features of this plan are set forth and embodied in the following resolutions, adopted at a full meeting of the committee on cemeteries, November 10, 1881: —

“WHEREAS, the idea has been expressed that the feature known as the "landscape lawn" plan, embodying modern ideas and tastes, should be introduced into the Pine Grove Cemetery in some specified locality, and lots sold in such locality upon such conditions as will secure greater uniformity, care, and permanence in fitting up and maintaining the lots and surroundings; and

“WHEREAS, this committee have given the subject such consideration and investigation as lead them to believe

that the proposition carried out would give a greater variety to the grounds, and tend to enhance the beauty and attractiveness of the cemetery ; therefore,

“ *Resolved*, That the section of land bounded on the west, south, and east by Laurel avenue, and on the north by Floral avenue, be laid out on the above named plan ; and that the price of the lots, including fitting up (estimated to cost about ten cents per square foot), be fixed at twenty cents per square foot, with an endowment or donation made to the city of at least forty cents per square foot, the income of which is to be applied for their perpetual care and preservation ; and that the sale of such lots be conditioned as set forth in the following form of deed, which the treasurer of the committee is hereby authorized to execute in behalf of the city of Manchester, as follows, to wit : ” —

The following are the conditions and limitations of the deed : —

“ *First*, That the said lot of land shall not be used for any other purpose than as a place of burial for the dead ; and no tomb shall be erected or constructed on said lot ; and no trees within the lot or border shall be cut down or destroyed without the consent of the committee having charge of said ground.

“ *Second*, That said lot of land shall be graded, sodded, suitable landmarks of stone erected, and the number thereof legibly and permanently marked on the premises by the committee ; and no work shall at any time be done upon or around said lot by other persons than the proper servants of the said city of Manchester, except by consent of the committee in charge of the ground.

“ *Third*, That no fence, curbing, hedge, or landmark, other than corner posts set by the committee, shall be placed upon or around said lot ; no headstone exceeding two feet and six inches in height from the ground shall be erected

except by vote of the committee : and no monuments, structures, or inscriptions shall be placed therein without the approval of the committee.

“ *Fourth.* That if any monument or effigy, or any structure whatever, or any inscription be placed in or upon the said land, which shall be determined by the major part of the said committee for the time being to be offensive or improper, the said committee, or the major part of them, shall have the right, and it shall be their duty, to enter upon said land and remove the said offensive or improper object or objects.

“ *Fifth.* That if any trees or shrubs situated in said lot of land shall, by means of their roots, branches, or otherwise, become detrimental to said lot, or to the adjacent lots or avenues, or dangerous or inconvenient, it shall be the duty of the said committee for the time being, and they shall have the right, to enter into said lot and remove the said trees and shrubs, or such parts thereof as are thus detrimental, dangerous, or inconvenient.

“ And said city of Manchester, in consideration of the further sum of ——— dollars, to them paid by the grantee, the receipt whereof is hereby acknowledged, does further covenant to and with said grantee ——— heirs and assigns, that they will forever apply the income or interest thereof as follows: First, to keep in suitable and good repair and preservation the lot hereby conveyed, and monuments, tomb, trees, shrubbery, and soil thereon; second, to suffer the surplus, if any, of such income or interest to accumulate for such time as the trustees of the cemetery funds may deem expedient, or, in their discretion, to apply the same surplus, or any part thereof, from time to time, to ornamenting and preserving the grounds of the cemetery, agreeable to an ordinance of the city, entitled ‘ An ordinance in relation to cemeteries,’ passed Aug. 5, 1879.”

A section of ground in the southwest portion of the cemetery has been cleared of the wood and timber, preparatory to grading, and will be ready early in the coming season. This section will comprise many eligible and desirable lots, and will undoubtedly be readily sold.

No shade trees have been set during the past year. Owing to the damaging effect upon stone and marble, caused by the coloring matter coming from the leaves of shade trees, and from the liability of the roots to displace, and thereby injure, the stone-work inclosing lots, there is a serious objection to trees in such close proximity to any burial lot as in any way to injure or impair the beautiful works of art which the owners have erected at so much cost. While shade trees give variety, and add to the beauty and attractiveness of the grounds, and especially where the soil is as dry and sandy as that of this cemetery, yet the setting of these trees should be in such localities upon the grounds as to avoid the objections referred to.

Believing in the importance of providing by the present generation, who are the most interested in the lots now being disposed of, for a suitable fund for the care and protection of these lots in the future, we earnestly recommend that some portion, if not all, of the money received for the sale of these lots, be set apart as a permanent fund for this purpose.

In conclusion, we would express the hope that our successors may adopt a liberal policy in the general improvement of the grounds, in order to keep pace with the beautiful and substantial improvements being made from year to year by owners of lots.

JOSEPH L. STEVENS,  
A. H. DANIELS,  
A. W. QUINT,

*Sub-Committee.*

## TREASURER'S REPORT.

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*To the Committee on Cemeteries:—*

GENTLEMEN:—In compliance with the requirements of law, as your treasurer, I herewith submit to you my eighth annual report of all money by me received on account of cemeteries, for the year ending December 31, 1881.

### PINE GROVE CEMETERY.

To cash received for fifty-three lots sold . . .	\$1,205 22
By cash paid city treasurer, as per receipts . . .	\$1,205 22

I have twenty-three deeds written ready for delivery, the total sum of which is about four hundred dollars.

### THE VALLEY.

To cash received of Mrs. Ada H. Dodge, for 142½ square feet of land at 20 cents per foot . . . . .	\$28 50
cash received Chas. Wingate, for tomb rent,	31 00
<hr/>	
Total receipts . . . . .	\$59 50
By cash paid city treasurer, as per receipts . . .	\$59 50

All money received on account of cemeteries has, as usual, been paid to the city treasurer, and all bills of expenditures have been paid by the city treasurer, having been

submitted to the committee on accounts for examination. I desire to improve this opportunity to call the attention of the committee to the propriety of creating a permanent fund of ten thousand dollars or more, to be taken from the receipts of lots sold in Pine Grove Cemetery — say one thousand dollars each year — until a sum, the interest on which will be sufficient to keep the grounds in respectable order, is raised. If it is considered advisable to provide for such a sum, it will be wise to do so before many more lots are sold.

Respectfully submitted.

J. F. JAMES, *Treasurer.*

DECEMBER 29, 1881.

MANCHESTER, N. H., Dec. 29, 1881.

I hereby certify that I have examined the accounts of the treasurer of the Pine Grove and Valley cemeteries, on pages 96, 97, and 98, and pages 78 and 79, respectively, and find the same correctly cast and properly vouched, to the amount of \$1,264.72.

NATHAN P. KIDDER,  
*City Auditor.*

I consider it my duty to report here the Gale fund. This consists of the sum of three hundred dollars, deposited in the Amoskeag Savings Bank by the executors of the will of the late Mrs. Dr. Gale, which will requests the treasurer of the Valley Cemetery to expend the annual interest on the same for the purpose of keeping both lots and tombs of the late Dr. A. G. Gale and Hon. R. H. Ayer

in suitable condition. In obedience to the provisions of said will, I had two coats of paint put upon the fences of both lots, in July last.

To interest accumulated July 26, 1881 . . . . .	\$38 95
By paid J. J. Abbott, for painting fences (two coats) . . . . .	18 00
	<hr/>
Balance . . . . .	\$20 95

J. F. JAMES, *Treasurer.*

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TIMOTHY W. CHALLIS, *Chairman,*  
 SYLVANUS B. PUTNAM, *Clerk,*  
 J. F. JAMES, *Treasurer,*  
 H. R. PETTEE,  
 W. G. HOYT,  
 CHAS. E. BALCH,  
 J. L. STEVENS,  
 A. H. DANIELS,  
 A. W. QUINT,

*Committee on Cemeteries.*



REPORT  
OF THE  
TRUSTEES OF THE CEMETERY FUND.

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*To the City Councils of the City of Manchester:—*

GENTLEMEN:— In presenting the second annual report of the Trustees of the Cemetery Fund, there is little to be said in addition to what was embraced in the report of last year. Since that time no additional funds have been placed in the custody of the trustees; but by the action of the committee on cemeteries, by which a section of the Pine Grove Cemetery is to be improved on the “landscape lawn” plan, and the lots embraced therein are to be endowed, it is expected that within the coming year a considerable sum will be accumulated for the perpetual maintenance of such lots.

Respectfully submitted.

JAMES A. WESTON,

P. C. CHENEY,

H. B. PUTNAM,

*Trustees of the Cemetery Fund.*

JANUARY 2, 1882.



REPORT  
OF THE  
OVERSEERS OF THE POOR.



# REPORT

OF THE

## OVERSEERS OF THE POOR.

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

In compliance with the ordinance of said city, the Overseers of the Poor herewith present their annual report for the year 1881.

The whole number of families that has received more or less assistance off the farm during the past year has been thirty-two, consisting of one hundred and sixty persons, all of whom have a settlement in this city.

Three of the above number have died during the year.

The whole number of persons at the City Farm during the year has been thirty-one, the average number for the year being twelve and seventy-three one-hundredths.

There has been one death at the farm during the year.

During the past year there has been a large addition made to the city-farm house, whereby those needing city charity can be conveniently provided for. New rooms have been fitted up with entire new furniture, and steam introduced into every room. This department is entirely separate from the criminal ward, so that those who may have occasion to go there will not feel that they are sent

there for any crime. It is very desirable that all paupers off the farm should at once make application to their ward overseer of the poor to be admitted. By so doing the expenses of the city may be greatly reduced, and the poor will receive much better care.

All of which is respectfully submitted.

H. B. PUTNAM, *Chairman ex officio*,  
 WILLIAM H. MAXWELL, *Clerk*, Ward 1,  
 GEORGE H. COLBY, Ward 2,  
 CHARLES G. B. RYDER, Ward 3,  
 HORACE GORDON, Ward 4,  
 GEORGE F. SHEEHAN, Ward 5,  
 ROBERT HALL, Ward 6,  
 ELBRIDGE G. WOODMAN, Ward 7,  
 ISRAEL B. FARNUM, Ward 8.

*Overseers of the Poor.*

ACCOUNT  
OF  
SYLVANUS B. PUTNAM,  
CITY TREASURER,  
FROM DECEMBER 31, 1880, TO DECEMBER 31, 1881.

*Dr. Sylvanus B. Putnam, Treasurer, in account with the*

To Cash in the Treasury, January 1, 1881 . . . . .	\$26,552 33
Temporary Loan . . . . .	75,000 00
Bonds sold . . . . .	60,000 00
Interest on bonds sold . . . . .	84 45
Insurance Tax . . . . .	780 38
Railroad Tax . . . . .	12,830 45
Savings-bank Tax . . . . .	37,124 88
Literary Fund . . . . .	1,870 50
Board of Inmates at State Reform School . . . . .	4,021 86
City Farm . . . . .	2,504 88
City Teams . . . . .	2,492 09
Highway District No. 1 . . . . .	1 25
"    "    "    2 . . . . .	1 25
"    "    "    6 . . . . .	8 20
New Highway . . . . .	25 00
Lighting Streets . . . . .	26 06
Macadamizing . . . . .	337 07
Sewers and Drains . . . . .	1,005 30
Bridge-street sewer . . . . .	383 84
Incidental expenses . . . . .	60 57
Old Hearse sold . . . . .	75 00
Rent of Ward Room . . . . .	24 00
Pine Grove Cemetery . . . . .	1,285 22
Valley Cemetery . . . . .	147 50
Police Department . . . . .	9,543 49
City Hall . . . . .	2,494 04
City Officers' Salaries . . . . .	7 50
Water Rent . . . . .	60,215 62
Fuel . . . . .	12 56
Philip Pruman, rent of land . . . . .	1 00
Dog Licenses . . . . .	542 25
Aqueduct Water . . . . .	15 00
Interest on Taxes . . . . .	683 10
Tuition . . . . .	341 92
Cost on Non-Resident Taxes . . . . .	42 00
Taxes collected on List of 1873 . . . . .	1 67
"    "    "    1874 . . . . .	101 07
Amount carried forward . . . . .	<u>\$300,643 30</u>



*City of Manchester (ending December 31, 1881).*

Cr.

By Unpaid Bills, January 1, 1881 . . . . .	\$35,593 73
Temporary Loan . . . . .	12,000 00
Reduction of City Debt . . . . .	16,400 00
Interest paid . . . . .	2,089 17
Coupons, City Proper . . . . .	16,779 00
Coupons, Water Bonds . . . . .	37,383 00
Paupers off the Farm . . . . .	7,562 77
City Farm . . . . .	9,131 54
City Teams . . . . .	4,570 50
Highway District No. 1 . . . . .	229 71
“ “ “ 2 . . . . .	11,156 45
“ “ “ 3 . . . . .	959 40
“ “ “ 4 . . . . .	257 77
“ “ “ 5 . . . . .	485 83
“ “ “ 6 . . . . .	997 65
“ “ “ 7 . . . . .	582 90
“ “ “ 8 . . . . .	392 55
“ “ “ 9 . . . . .	490 38
“ “ “ 10 . . . . .	1,251 33
“ “ “ 11 . . . . .	969 99
“ “ “ 12 . . . . .	208 77
“ “ “ 13 . . . . .	204 81
New Highways . . . . .	2,777 24
Land Damages . . . . .	920 76
Watering Streets . . . . .	1,979 15
Lighting Streets . . . . .	5,323 99
Paving Streets . . . . .	8,306 75
Macadamizing . . . . .	2,871 37
Grading for Concrete . . . . .	3,903 97
Sewers and Drains . . . . .	9,621 71
Bridge-street Sewer . . . . .	13,929 41
Granite Bridge . . . . .	458 44
Amoskeag Falls Bridge . . . . .	1,361 34
McGregor Bridge . . . . .	20,000 00
Commons . . . . .	392 30
Incidental Expenses . . . . .	20,018 74
Pine Grove Cemetery . . . . .	1,486 15
Amount carried forward . . . . .	<u>\$361,043 58</u>

*Dr. Sylvanus B. Putnam, Treasurer, in account with the*

	Amount brought forward	.	.	.	\$300,643	30
To Taxes	collected on List of 1875	.	.	.	205	45
"	" " 1876	.	.	.	78	28
"	" " 1877	.	.	.	185	78
"	" " 1878	.	.	.	324	75
"	" " 1879	.	.	.	435	49
"	" " 1880	.	.	.	30,159	30
"	" " 1881	.	.	.	268,774	67
Show Licenses	.	.	.	.	578	00
Rent of Tenements	.	.	.	.	260	50
City Scales	.	.	.	.	178	81
					<hr/>	
					\$601,824	33
Unpaid Bills, January 1, 1882	.	.	.	.	31,312	63
					<hr/>	
					\$633,136	96

City of Manchester (ending December 31, 1881).

Cr.

	Amount brought forward . . . . .	\$361,043 58
By	Valley Cemetery . . . . .	3,048 32
	Fire Department . . . . .	14,042 77
	Fire-alarm Telegraph . . . . .	1,049 48
	Police Department . . . . .	20,116 76
	City Hall . . . . .	5,115 44
	Hydrant Service . . . . .	19,310 00
	Printing and Stationery . . . . .	1,360 52
	Repairs of Buildings . . . . .	4,988 38
	City Library . . . . .	2,695 48
	Women's Aid Society . . . . .	700 00
	Militia . . . . .	500 00
	Abatement of Taxes . . . . .	2,762 22
	Discount on Taxes . . . . .	7,399 15
	State Tax . . . . .	41,060 00
	City Officers' Salaries . . . . .	10,923 59
	Decoration of Soldiers' Graves . . . . .	200 00
	Firemen's Parade . . . . .	288 84
	Annex to City Library . . . . .	3,355 17
	New School-house . . . . .	4,724 30
	Water-works . . . . .	37,558 48
	Repairs of School-houses . . . . .	4,959 72
	Fuel . . . . .	3,036 26
	Furniture and Supplies . . . . .	745 24
	Books and Stationery . . . . .	599 89
	Printing and Advertising . . . . .	566 05
	Contingent Expenses . . . . .	823 17
	Care of Rooms . . . . .	2,494 89
	Evening Schools . . . . .	1,374 75
	Teachers' Salaries . . . . .	37,503 40
	Truant Officer . . . . .	187 50
	Reservoirs . . . . .	4 90
		<hr/>
		\$594,548 15
	Cash in the Treasury, January 1, 1882 . . . . .	38,588 81
		<hr/>
		\$633,136 96

SYLVANUS B. PUTNAM,

City Treasurer.

MANCHESTER, January 1, 1882.

## FINANCE COMMITTEE'S REPORT.

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The undersigned, Joint Standing Committee on Finance, certify that we have examined the foregoing account of S. B. Putnam, city treasurer, and find the same correctly cast and supported by proper vouchers.

CHARLES F. MORRILL,  
ARETAS BLOOD,  
SAMUEL F. CURTIS,  
THOMAS JOHNSON,  
H. B. PUTNAM,

*Joint Standing Committee on Finance.*

REVENUE ACCOUNT.



# ACCOUNTS OF APPROPRIATIONS.

## TEMPORARY LOAN.

		DR.
To balance from old account . . .	\$45,000 00	
Manchester Savings Bank . . .	45,000 00	
Mechanics' Savings Bank . . .	5,000 00	
Merrimack River Savings Bank . . .	10,000 00	
Amoskeag National Bank . . .	10,000 00	
Merchants National Bank . . .	5,000 00	
	\$120,000 00	
		CR.
Paid Manchester Savings Bank . . .	\$55,000 00	
Amoskeag Savings Bank . . .	5,000 00	
Mechanics' Savings Bank . . .	10,000 00	
Merrimack River Savings Bank . . .	15,000 00	
Manchester National Bank . . .	5,000 00	
Amoskeag National Bank . . .	10,000 00	
Merchants National Bank . . .	10,000 00	
Isaac Fitts . . . . .	10,000 00	
	\$120,000 00	

## INTEREST.

	DR.
To appropriation . . . . .	\$20,000 00
water-works, am't transferred . . . . .	38,000 00
Charles E. Balch . . . . .	16 67
First National Bank . . . . .	21 12
Second National Bank . . . . .	12 22
Amoskeag National Bank . . . . .	22 22
Merchants National Bank . . . . .	12 22
	<hr/> \$58,084 45

	CR.
Paid C. E. Balch . . . . .	\$193 75
Merchants National Bank . . . . .	169 86
Amoskeag National Bank . . . . .	64 58
Manchester National Bank . . . . .	75 70
Manchester Savings Bank . . . . .	892 07
Amoskeag Savings Bank . . . . .	163 89
Merrimaek River Savings Bank . . . . .	199 73
Mechanics' Savings Bank . . . . .	217 09
Isaac Fitts . . . . .	112 50
coupons, city proper . . . . .	16,779 00
coupons, water bonds . . . . .	37,883 00
By balance on hand . . . . .	1,833 28
	<hr/> \$58,084 45

## INTEREST ON TAXES.

	DR.
To George E. Morrill, collector . . . . .	\$782 06

  

	CR.
By balance on hand . . . . .	\$782 06



## PAUPERS OFF THE FARM.

DR.

To appropriation . . . . .	\$4,000 00	
county of Hillsborough, support of county paupers . . . . .	4,021 86	
reserved fund . . . . .	278 69	
	<hr/>	\$8,300 55

CR.

Paid Daniel Sheehan, groceries furnished Michael Kelley . . . . .	\$64 00
Daniel Sheehan, groceries furnished Mrs. J. Sullivan . . . . .	96 00
Daniel Sheehan, groceries furnished Mrs. J. Reardon . . . . .	48 00
Daniel Sheehan, groceries furnished Mrs. P. Fox . . . . .	72 00
Daniel Sheehan, groceries furnished Mrs. D. Healy . . . . .	72 00
Daniel Sheehan, groceries furnished Mrs. T. Mackin . . . . .	10 00
Daniel Sheehan, groceries furnished Robert Manahan . . . . .	5 00
Daniel Sheehan, groceries furnished Mrs. J. Loughlin . . . . .	6 00
Daniel Sheehan, groceries furnished John Murphy . . . . .	8 00
Daniel Sheehan, groceries furnished David McKay . . . . .	4 00
B. Bresnehan, groceries furnished Robert McMahan . . . . .	50 00
B. Bresnehan, groceries furnished P. J. Hanley . . . . .	66 00

<b>Paid</b> B. Bresnehan, groceries furnished Mrs. M. Shanley . . .	\$48 00
B. Bresnehan, groceries furnished Mrs. J. Joice . . .	60 00
B. Bresnehan, groceries furnished Mrs. M. Fitzgerald . . .	28 00
B. Bresnehan, groceries furnished Mrs. Junier . . .	12 00
B. Bresnehan, groceries furnished Edward Burrines . . .	5 00
B. Bresnehan, groceries furnished Mr. Tobert . . .	5 00
Adams & Lamprey, groceries furnished Mrs. Doherty . . .	27 00
Adams & Lamprey, groceries furnished John Murphy . . .	7 00
Adams & Lamprey, groceries furnished Thomas Connor . . .	8 00
Adams & Lamprey, groceries furnished P. Scalan . . .	4 43
Adams & Lamprey, groceries furnished Mrs. Jerry Cronin . . .	5 00
Adams & Lamprey, groceries furnished Timothy McQuinn . . .	3 00
Adams & Lamprey, groceries furnished Mrs. Rhoades . . .	2 00
Adams & Lamprey, groceries furnished Mary Fitzgerald . . .	1 50
Michael Kenney, groceries furnished Johanna Harrison . . .	56 99
P. Harrington, groceries furnished Mrs. J. Loughlin . . .	66 00
P. Harrington, groceries furnished Mrs. Harrison . . .	5 00

<b>Paid</b> M. E. Griffin, groceries furnished Ann Mackin . . .	\$50 00
M. E. Griffin, groceries furnished Walter Lynch . . .	32 00
M. E. Griffin, groceries furnished J. Doherty . . .	2 00
M. R. Currier, groceries furnished L. B. Mott . . .	3 00
M. R. Currier, groceries furnished Pyam Hovey . . .	40 78
H. F. Davis & Co., groceries furnished Mrs. Fitts . . .	1 50
H. Fradd & Co., groceries furnished Cyprian Gillette . . .	14 01
H. Fradd & Co., groceries furnished Mrs. Douglass Hunter	37 76
Wm. F. Sleeper & Co., groceries furnished Joseph Pierce	51 00
Wm. F. Sleeper & Co., groceries furnished John Doherty	9 50
Wm. F. Sleeper & Co., groceries furnished B. Fitzgerald . . .	4 00
Wm. F. Sleeper & Co., groceries furnished D. McKay . . .	6 00
Wm. F. Sleeper & Co., groceries furnished Dan'l Reynolds	2 00
Barnard & Huskie, groceries furnished Mrs. Douglass Hunter . . . . .	52 76
A. G. Pratt, groceries furnished Louis Rushlow . . . . .	19 50
Town of Merrimack, groceries furnished Joseph Pierce . . .	3 00

<b>Paid Michael Kearns, groceries furnished P. J. Handley . . .</b>	<b>\$6 00</b>
Michael Kearns, groceries furnished Ellen Rhoades . . .	6 89
O. J. Balch, groceries furnished Mrs. Gillette . . . . .	3 00
O. J. Balch, groceries furnished Mrs. Douglass Hunter . . .	10 41
Barr & Clapp, groceries furnished Daniel Mitchell . . .	5 00
Barr & Clapp, groceries furnished Eben Foss . . . . .	6 00
Eager & Rand, groceries furnished Helen Rhoades . . . . .	25 18
Eager & Rand, groceries furnished Kate Cronin . . . . .	11 00
John Fenton & Co., groceries furnished John Doherty . . . . .	13 00
Poore & Rowell, groceries furnished Hiram O. Hodge . . . . .	11 00
I. G. Rowell, groceries furnished George H. Young . . . . .	13 00
Geo. H. Stearns, groceries furnished Hiram O. Hodge . . . . .	3 85
Geo. H. Stearns, groceries furnished John Lane . . . . .	2 00
Geo. H. Stearns, groceries furnished Mr. Leonard . . . . .	1 50
L. A. McKean, groceries furnished Ellen Rhoades . . . . .	2 61
Smith & Pratt, groceries furnished Mrs. Fitzgerald . . . . .	1 50
Brigham & Pratt, bread furnished Thomas Connor . . . . .	2 00

Paid E. E. Pillsbury, board and care of family . . . . .	\$86 00
Geo. C. Batchelder, board and care of Geo. H. Batchelder and family . . . . .	143 00
O. J. Doble, board and care of Anna B. Ayer . . . . .	72 00
Mrs. S. B. Davis, board and care of Joseph Bellefleur . . . . .	52 07
Mrs. M. M. Prescott, board and care of Eben Foss . . . . .	6 00
Town of Lancaster, board and care of Benson Joy . . . . .	23 50
Town of Newmarket . . . . .	18 00
C. C. Colby, board of Alice P. Nutt . . . . .	33 32
Sarah A. Heselton, support of family . . . . .	7 00
Lucie M. Clark, care of Alice P. Nutt . . . . .	48 00
Sarah E. Mayhew, care of Henry C. Young . . . . .	2 50
Mrs. Patrick Ford, washing for Henry C. Young and wife . . . . .	5 55
Susan A. Crooker, watching with Henry C. Young and wife . . . . .	37 50
Mrs. Bonett, work for H. C. Young and family . . . . .	4 00
Mrs. Leonard Jenkins, watch- ing with Henry C. Young and wife . . . . .	7 87
Town of Candia, care of Luther Harrington . . . . .	8 00

Paid Delia Fifield, care of Henry C. Young's family . . . . .	\$7 30
E. P. Johnson & Co., coal furnished Mrs. Moulton . . . .	30 25
E. P. Johnson & Co., coal furnished James Callahan . . . .	10 60
L. B. Bodwell & Co., wood furnished Hiram O. Hodge . . . .	18 75
James F. Wyman, coal furnished Mrs. D. Hunter . . . .	5 66
Rowell & Burns, wood furnished Mrs. J. Cronin . . . .	4 00
James W. Kimball, wood furnished Mrs Doherty . . . .	3 50
James W. Kimball, wood furnished Timothy McQuinn . . . .	2 00
A. McIndoe, wood furnished Mrs. Mackin . . . . .	2 00
M. V. B. Garland, wood furnished S. B. Mott . . . . .	1 00
George H. Porter, wood furnished Mrs. Doherty . . . . .	2 00
A. C. Wallace, wood furnished Mrs. D. Hunter . . . . .	3 00
G. M. Story, wood furnished Mrs. D. Hunter . . . . .	3 75
S. Brown, wood furnished Mrs. D. Hunter . . . . .	2 25
J. Baldwin & Co., wood furnished Mrs. D. Hunter . . . . .	5 75
L. S. Proctor, wood furnished Pyam Hovey . . . . .	6 00
J. McIndoe, wood furnished Mrs. David McKay . . . . .	2 25

<b>Paid</b> State Reform School, board of inmates . . . . .	\$3,817 52
N. H. Insane Asylum, board of John Connolly . . . . .	229 62
N. H. Insane Asylum, board of Martha J. Dunn . . . . .	224 81
N. H. Insane Asylum, board of Elbridge Gerry . . . . .	226 66
N. H. Insane Asylum, board of John J. Murray . . . . .	242 68
N. H. Insane Asylum, board of John Welch . . . . .	126 37
N. H. Insane Asylum, board of Patrick Cronin . . . . .	220 24
N. H. Insane Asylum, board of Asenath H. White . . . . .	140 59
N. H. Insane Asylum, board of S. S. Gale . . . . .	54 12
N. H. Insane Asylum, board of Ellison Towne . . . . .	12 10
N. H. Insane Asylum, board of Charles Croghan . . . . .	15 91
S. G. Reed, board of Willard A. Reed . . . . .	19 39
Town of Candia, clothing for Luther Harrington . . . . .	23 15
Town of Groton, care of Mrs. F. Page . . . . .	5 00
Dr. D. P. Campbell, professional services . . . . .	1 50
Dr. J. A. Jackson, professional services . . . . .	60 00
Robert Hall, cash paid for medicine for Joseph B. Pierce . . . . .	4 50

Paid C. G. B. Ryder, cash paid Erastus Nichols . . . . .	€6 00	
I. R. Dewey, use of team . . . . .	1 50	
M. E. George, cash paid Mrs. C. W. Heselton . . . . .	5 00	
Wm. H. Maxwell, postage and stationery . . . . .	2 00	
Lewis K. Mead, medicine . . . . .	52 30	
Tebbetts Bros., medicine . . . . .	23 02	
Tebbetts Bros., medicine for Alice P. Nutt . . . . .	3 49	
P. A. Devine, burial of Mrs. Bridget Fitzgerald . . . . .	14 00	
F. C. Dow, boots and shoes . . . . .	4 75	
Fairbanks & Pearson . . . . .	37 00	
A. G. Monette, burial of Mrs. Cyprian Gillette . . . . .	14 00	
Piper, Hawley, & Co., clothing for Henry C. Young's family . . . . .	5 25	
John B. Clarke, printing . . . . .	5 50	
James Bros, team . . . . .	1 25	
Geo. E. Morrill, tax of C. S. Prescott . . . . .	1 51	
By balance to new account . . . . .	737 78	
	<hr/>	€8,300 55

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CITY FARM.

DR.

To appropriation . . . . .	€5,500 00
F. Allen, produce sold . . . . .	2,484 45
J. S. Holt, pasturing cow . . . . .	11 00
Barton & Co., overdraft . . . . .	50



To Ezra W. Kimball, overdraft . . . . .	\$8 93	
reserved fund . . . . .	1,868 13	
	<hr/>	\$9,873 01

Cr.

Paid F. Allen, superintendent . . . . .	\$500 00
F. Allen, labor . . . . .	543 31
Chas. T. Allen & Co., groceries . . . . .	481 76
Geo. H. Stearns, groceries . . . . .	139 03
Eager & Rand, groceries . . . . .	8 58
Poore & Rowell, groceries . . . . .	50 02
J. G. Warner, groceries . . . . .	63 03
L. B. Harris, use of telephone . . . . .	35 80
Pettee & Whittle, grain . . . . .	588 87
Samuel Cooper, grain . . . . .	128 46
D. Kerwin & Son, soap . . . . .	17 60
L. Shelters, butter . . . . .	8 19
R. G. Sullivan, tobacco . . . . .	16 80
J. A. Sanborn & Co., repairing teams . . . . .	32 50
E. P. Johnson & Co., coal . . . . .	4 04
Wm. H. Hill, blacksmithing . . . . .	1 25
J. F. Woodbury & Co., black- smithing . . . . .	46 22
Goodwin Bros., repairing teams . . . . .	23 35
J. B. McCrillis & Son, repair- ing teams . . . . .	80 65
Daniels & Co., hardware, ferti- lizers, etc. . . . .	108 63
Wm. C. Rogers, hardware, fer- tilizers, etc. . . . .	44 64
J. B. Varick, hardware, ferti- lizers, etc. . . . .	65 50
Pike & Heald, plumbing, etc. . . . .	130 24

Paid Wason, Pierce, & Co., tobacco	\$7 00
Silas Pierce & Co., molasses, etc. . . . .	37 96
D. A. Simons, furnishing goods	50 82
D. A. Simons, furniture . . .	252 78
Ezra W. Kimball, horse clothing	33 76
J. P. Finn & Co., painting . .	404 79
E. P. Johnson & Co., coal . .	230 90
A. C. Wallace, lumber . . . .	32 16
W. Ireland, lumber and labor .	41 97
J. H. Maynard, lumber and labor . . . . .	2,625 92
J. S. Masseck, dry goods . . .	17 74
Waite Bros., dry goods . . . .	50
N. S. Clark, dry goods . . . .	26 06
Weston & Hill, dry goods . . .	72 48
Piper, Hawley, & Co., dry goods	103 87
Plumer & Holton, clothing . .	49 83
Temple & Farrington, wall- paper . . . . .	59 55
B. W. Robinson & Co., mason- work . . . . .	194 48
E. M. Slayton, butter, beans, etc.	45 47
B. F. Porter, filing saws . . . .	2 20
Cyrus Dean, repairing clocks .	3 50
Barr & Clapp, kerosene oil . . .	8 28
A. N. Clapp, kerosene oil . . . .	6 27
Carl E. York, sugar and oil . . .	2 88
Manchester Locomotive-works, sled shoes . . . . .	11 80
Thomas A. Lane, old pipe . . . .	86
A. Royal, swill . . . . .	5 70
Geo. F. Boshier & Co., soap, matches, etc. . . . .	7 32

Paid P. W. Follansbee & Son, moving building . . . .	\$150 00	
Geo. F. Hanson, blacksmithing . . . .	3 00	
G. H. Roby, concreting . . . .	3 00	
Wm. G. Hoyt, manure . . . .	13 50	
A. H. Lowell, iron castings . . . .	6 74	
Mitchell & Heath, shoes . . . .	25 15	
H. F. Thompson, blacksmithing . . . .	5 40	
Clough & Towle, pork and lard . . . .	35 55	
N. B. Hull, 2d, potatoes . . . .	14 00	
I. P. Emery & Co., tin ware . . . .	41 99	
Concord Railroad corporation; freight . . . .	1 24	
J. S. Holt & Co., soap . . . .	11 54	
Wm. Stevens, tobacco . . . .	2 16	
R. G. Sullivan, tobacco . . . .	22 57	
James S. Bacheler, putting in boilers, etc. . . . .	1,145 25	
James S. Bacheler, plumbing . . . .	118 19	
Geo. H. Dorr . . . .	3 72	
J. E. Knox, pasturing cattle . . . .	40 00	
P. Bannon, making cider . . . .	5 10	
J. M. Crombie, labor on well . . . .	28 12	
By balance to new account . . . .	741 47	
	<hr/>	\$9,873 01

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CITY TEAMS.

To L. B. Harris, labor . . . .	\$4 00	DR.
O. D. Carpenter, labor . . . .	1 50	
Warren Harvey, horse . . . .	50 00	
District No. 2 . . . .	1,418 61	

To District No. 10 . . . . .	\$192 75	
sewers and drains . . . . .	1 00	
grading for concrete . . . . .	174 50	
watering streets . . . . .	411 24	
macadamizing . . . . .	32 50	
incidental expenses . . . . .	40 75	
paving . . . . .	136 24	
new highways . . . . .	29 00	
reserved fund . . . . .	2,078 41	
	<hr/>	\$4,570 50

CR.

Paid J. A. Brown, hay . . . . .	\$50 55
O. Hinkley, hay . . . . .	90 78
L. Shelters, hay . . . . .	69 56
E. Langley, hay . . . . .	98 04
E. P. Johnson & Co., hay . . . . .	397 29
E. B. Bartlett, hay . . . . .	22 78
James Warren, hay . . . . .	11 55
J. M. Miller, hay . . . . .	192 57
Rufus Martin, hay . . . . .	31 81
W. Cochran, hay . . . . .	19 25
L. N. Barnard, hay . . . . .	13 80
M. Boyington, hay . . . . .	9 56
P. Boyington, hay . . . . .	18 35
George A. Tufts, straw . . . . .	11 83
S. R. Corning, hay . . . . .	9 50
N. Preston, straw . . . . .	5 94
Samuel Cooper, grain . . . . .	211 07
Pettee & Whittle, grain . . . . .	642 69
H. Fradd & Co., grain . . . . .	75 75
A. N. Clapp, grain . . . . .	17 37
W. H. Martyn & Son, grain . . . . .	30 62
D. Wadsworth, carrots . . . . .	21 09

Paid J. H. Cram, blacksmithing . . . . .	\$141 76
J. F. Woodbury & Co., blacksmithing . . . . .	37 75
D. F. Cressey, repairing teams . . . . .	6 50
John Barnes, repairing teams . . . . .	36 69
J. A. Sanborn & Co., repairing teams . . . . .	36 55
J. B. McCrillis & Son, repairing teams, etc. . . . .	1,070 18
J. B. Varick, hoof ointment . . . . .	2 38
Pike & Heald, cap for hubs, etc. . . . .	2 70
Daniels & Co., stable broom, etc. . . . .	1 30
Ezra W. Kimball, repairing harness . . . . .	214 52
T. F. Burnham, professional services . . . . .	8 00
John Barnes, blacksmithing . . . . .	8 20
H. C. Ranno, harness . . . . .	75 00
H. C. Ranno, repairing harness . . . . .	20 04
F. N. McLaren, repairing harness . . . . .	1 00
Manchester Tea Co., salt . . . . .	1 32
J. Truesdale & Son, horse-blankets . . . . .	4 50
city farm, hay . . . . .	29 37
S. P. Scolley & Co., castile soap, etc . . . . .	16 97
Waite Bros. . . . .	4 23
G. E. Hall, medicine . . . . .	12 42
J. J. Abbott, paint . . . . .	11 81
George H. Stearns, salt, etc. . . . .	3 95
A. N. Clapp, flannel . . . . .	38
E. M. Slayton . . . . .	7 30
Manchester Gas Co., gas . . . . .	12 04

Paid Geo. W. Butterfield, teamster	\$264 75	
A. Robie, teamster . . . . .	105 73	
Dennis Clifford, teamster . . . . .	18 75	
A. B. Cushing, teamster . . . . .	247 86	
Walter Seaward, teamster . . . . .	71 99	
	<u>          </u>	\$4,570 50

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HIGHWAY DISTRICT NO. 1.

		DR.
To appropriation . . . . .	\$250 00	
Eddie Stewart . . . . .	1 25	
	<u>          </u>	\$251 25

CR.

Paid Malachi F. Dodge, superintendent . . . . .	\$28 00	
Geo. F. Hamlet, superintendent labor of men and teams . . . . .	86 00	
	137 25	
	<u>          </u>	\$251 25

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HIGHWAY DISTRICT NO. 2.

		DR.
To appropriation . . . . .	\$10,000 00	
Kimball & Gerrish, old barrels . . . . .	1 25	
reserved fund . . . . .	1,155 20	
	<u>          </u>	\$11,156 45

CR.

Paid Warren Harvey, superintendent	\$676 50	
Daniels & Co., hardware . . . . .	231 35	

<b>Paid</b> J. B. Varick, hardware . . . . .	\$6 66
Wm. C. Rogers, hardware . . . . .	14 00
P. W. Dickey & Co., black- smithing . . . . .	34 05
C. Patterson, blacksmithing . . . . .	2 18
C. F. Langley, blacksmithing . . . . .	6 83
F. Ricard & Son, blacksmithing . . . . .	42 63
Derry & Co., blacksmithing . . . . .	38 86
Lamson & Marden, blacksmith- ing . . . . .	10 94
W. E. & E. B. Dunbar, black- smithing . . . . .	95
W. H. Vickery, keys . . . . .	1 35
Goodwin Bros., lumber . . . . .	2 15
A. C. Wallace, lumber . . . . .	10 04
A. J. Sawyer, lumber . . . . .	4 47
James Baldwin & Co., lumber . . . . .	4 92
Pike & Heald, repairing street- sweeper . . . . .	1 02
Daniel W. Garland, stone . . . . .	18 00
Robert Heath . . . . .	2 00
B. F. Porter, filing saws . . . . .	5 10
D. Clifford, teamster . . . . .	360 25
city teams . . . . .	1,346 61
A. B. Cushing, teamster . . . . .	37 12
A. Robie, teamster . . . . .	174 74
Geo. W. Butterfield, teamster . . . . .	42 00
James Kearns, teamster . . . . .	432 00
Walter Seaward, teamster . . . . .	142 50
Frank Dustin, teamster . . . . .	162 75
labor of men and teams . . . . .	7,344 48
	—————\$11,156 45

## HIGHWAY DISTRICT NO. 3.

		DR.
To appropriation . . . . .	\$700 00	
reserved fund . . . . .	259 40	
	<hr/>	\$959 40
		CR.
Paid I. G. Howe, superintendent . . . . .	\$39 19	
H. C. Dickey, superintendent . . . . .	333 86	
W. C. Rogers, hardware . . . . .	17 00	
Daniels & Co., hardware . . . . .	16	
John Barnes, blacksmithing . . . . .	9 50	
H. H. Currier & Son, concreting . . . . .	4 00	
A. C. Wallace, lumber . . . . .	11 56	
Robert Laing, stone steps . . . . .	2 00	
Joseph Johnson, stone . . . . .	1 75	
labor of men and teams . . . . .	540 38	
	<hr/>	\$959 40

## HIGHWAY DISTRICT NO. 4.

		DR.
To appropriation . . . . .	\$250 00	
reserved fund . . . . .	7 77	
	<hr/>	\$257 77
		CR.
Paid C. C. Webster, superintendent . . . . .	\$128 04	
J. B. Varick, hardware . . . . .	4 90	
labor of men and teams . . . . .	124 83	
	<hr/>	\$257 77



## HIGHWAY DISTRICT NO. 5.

		DR.
To appropriation . . . . .	\$400 00	
reserved fund . . . . .	85 83	
	<u>          </u>	\$485 83
		CR.
Paid A. A. Hazelton, superintendent	\$71 69	
C. A. Pierce, superintendent .	168 50	
A. C. Wallace, lumber . . . .	21 04	
J. B. Varick, hardware . . . .	40	
F. Ricard & Son, blacksmithing	2 20	
labor of men and teams . . . .	222 00	
	<u>          </u>	\$485 83

## HIGHWAY DISTRICT NO. 6.

		DR.
To appropriation . . . . .	\$400 00	
J. H. Maynard, overdraft . . . .	8 20	
reserved fund . . . . .	589 46	
	<u>          </u>	\$997 66
		CR.
Paid D. H. Dickey, superintendent	\$32 00	
I. T. Webster, superintendent	145 08	
J. B. Varick, hardware . . . .	28 18	
Wm. C. Rogers, hardware . . . .	5 90	
J. H. Maynard, lumber . . . .	8 20	
O. Sweeney, blacksmithing . . . .	15 00	
labor of men and teams . . . .	763 30	
	<u>          </u>	\$997 66

## HIGHWAY DISTRICT NO. 7.

		DR.	
To appropriation . . . . .	\$650 00		
	<u>          </u>		\$650 00
		CR.	
Paid P. O. Woodman, superintendent . . . . .	\$18 00		
H. A. Horton, superintendent	124 95		
Wm. C. Rogers, hardware . . . . .	18 15		
A. C. Wallace, lumber . . . . .	12 79		
labor of men and teams . . . . .	409 01		
By balance on hand . . . . .	67 10		
	<u>          </u>		\$650 00

## HIGHWAY DISTRICT NO. 8.

		DR.	
To appropriation . . . . .	\$450 00		
	<u>          </u>		\$450 00
		CR.	
Paid R. I. Stevens, superintendent . . . . .	\$24 00		
Jeremiah Garvin, superintendent . . . . .	108 00		
labor of men and teams . . . . .	259 95		
Daniels & Co., hardware . . . . .	60		
By balance on hand . . . . .	57 45		
	<u>          </u>		\$450 00

## HIGHWAY DISTRICT NO. 9.

		DR.
To appropriation . . . . .	\$450 00	
reserved fund . . . . .	40 38	
	<hr/>	\$490 38
		CR.
Paid Alphonso Boyce, superintendent . . . . .	\$43 00	
J. J. Garmon . . . . .	135 50	
Daniels & Co., hardware . . . . .	7 48	
J. B. Varick, hardware . . . . .	2 50	
L. A. Dickey, repairing tools . . . . .	2 86	
P. W. Follansbee, lumber . . . . .	3 60	
labor of men and teams . . . . .	295 44	
	<hr/>	\$490 38

## HIGHWAY DISTRICT No. 10.

		DR.
To appropriation . . . . .	\$1,000 00	
reserved fund . . . . .	251 33	
	<hr/>	\$1251 33
		CR.
Paid F. S. Worthen, superintendent . . . . .	\$88 00	
Wm. C. Rogers, hardware . . . . .	77 64	
J. B. Varick, hardware . . . . .	6 30	
Daniels & Co., hardware . . . . .	12 00	
John Barnes, blacksmithing . . . . .	37 04	
A. C. Wallace, lumber . . . . .	47 20	
A. N. Clapp, nails, powder, etc. . . . .	4 96	

Paid D. F. Cressey & Co., black-smithing . . . . .	\$6 44	
H. Fradd & Co., grain . . . . .	6 40	
Plumer & Holton, oil coats, etc.	5 12	
F. S. Bodwell, stone . . . . .	51 25	
Geo. H. Stearns, can and oil . . . . .	1 05	
Temple & Farrington, time-book . . . . .	1 30	
John Brown, paving-stone and sand . . . . .	6 25	
Jas. Baldwin & Co., grain, etc.	12 35	
Pettee & Whittle, cement . . . . .	14 40	
George W. Riddle, stone and sand . . . . .	22 25	
labor of men and teams . . . . .	851 38	
	<hr/>	\$1,251 33

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HIGHWAY DISTRICT NO. 11.

		DR.
To appropriation . . . . .	\$790 00	
reserved fund . . . . .	269 99	
	<hr/>	\$969 99

		CR.
Paid L. D. Colby, superintendent . . . . .	69 61	
J. E. Bailey, superintendent . . . . .	233 63	
D. Wells, lumber . . . . .	20 00	
L. D. Colby, oak plank and labor . . . . .	4 00	
J. B. Clarke, paving-stone . . . . .	1 25	
P. C. Cheney Co., sharpening drills . . . . .	70	

Paid Burpee, Hamilton, & Co., ax	\$1 50	
Daniels & Co., hardware	6 98	
labor of men and teams	632 32	
	<u>          </u>	\$969 99

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HIGHWAY DISTRICT NO. 12.

		DR.
To appropriation	\$250 00	
	<u>          </u>	\$250 00

		CR.
Paid city-farm labor	\$203 77	
By balance on hand	46 23	
	<u>          </u>	\$250 00

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HIGHWAY DISTRICT NO. 13.

		DR.
To appropriation	\$150 00	
reserved fund	54 81	
	<u>          </u>	\$204 81

		CR.
Paid Eben Carr, superintendent	\$8 00	
J. P. Fellows, superintendent	6 00	
Fellows & Goodwin, black-		
smithing	1 80	
Wm. C. Rogers, hardware	85	
labor of men and teams	188 16	
	<u>          </u>	\$204 81

## NEW HIGHWAYS.

		DR.
To appropriation . . . . .	\$1,000 00	
C. G. B. Ryder . . . . .	25 00	
reserved fund . . . . .	1,752 24	
	\$2,777 24	

		CR.
Paid John Barnes, blacksmithing . . .	\$27 28	
M. V. B. Garland, building north extension of Elm st. . . . .	150 00	
Moses Plant, building exten- sion of Prospect street . . . . .	165 00	
D. W. Garland, covering stone . . . . .	102 67	
John Perham, building exten- sion of Taylor street . . . . .	41 75	
A. N. Clapp, powder, fuse, etc. . . . .	5 69	
J. B. Varick, hardware . . . . .	2 70	
Daniels & Co., hardware . . . . .	1 70	
labor of men and teams . . . . .	2,280 45	
	\$2,777 24	

## LAND DAMAGES.

		DR.
To appropriation . . . . .	\$500 00	
reserved fund . . . . .	420 76	
	\$920 76	

		CR.
Paid C. H. Colburn, Laurel street . . .	\$40 16	
E. D. L. Parker, Parker st. . . . .	489 00	

Paid E. T. Baldwin, Prospect st. . .	\$140 00	
Isaac Huse, Proctor road . . .	1 00	
Wm. E. Buck, Prospect street . . .	248 60	
L. S. Proctor, Proctor road . . .	1 00	
Henry Duncan, Proctor road, . . .	1 00	
	<u>          </u>	\$920 76

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WATERING STREETS.

		Dr.
To appropriation . . . . .	\$2,000 00	
	<u>          </u>	\$2,000 00
		Cr.
Paid Manchester Water-works, water	\$719 25	
Thomas A. Lane, repairs of stand, pipes, etc. . . . .	22 72	
J. A. Sanborn & Co., repairs on sprinkler . . . . .	7 10	
Pike & Heald. repairs on sprinkler . . . . .	40 00	
J. B. McCrillis & Son, repairs on sprinkler . . . . .	30 70	
D. F. Cressey & Co., repairs on sprinkler. . . . .	3 50	
city teams . . . . .	411 24	
Geo. W. Butterfield, teamster	121 50	
A. B. Cushing, teamster . . . .	125 24	
Mark Harvey, team . . . . .	536 00	
R. W. Martin, storing cart . . .	5 00	
By balance on hand . . . . .	17 35	
	<u>          </u>	\$2,000 00

## LIGHTING STREETS.

DR.

To appropriation . . . . .	\$5,000 00	
Edward Jewell, damage to lamp- post . . . . .	26 06	
reserved fund . . . . .	297 93	
	<u>          </u>	\$5,323 99

CR.

Paid Manchester Gas Co., gas . . . . .	\$2,948 40	
Manchester Gas Co., lanterns, etc. . . . .	262 31	
I. R. Dewey, lamplighter . . . . .	1,809 24	
A. H. Lowell, lamp-posts, frames. etc. . . . .	200 43	
Wm. C. Rogers, glass . . . . .	29 95	
D. M. Goodwin, repairs . . . . .	45 01	
Pike & Heald, repairs . . . . .	35	
I. W. Thatcher, repairs . . . . .	15 05	
Brock & Driscoll, repairs . . . . .	9 50	
H. H. Currier . . . . .	1 50	
C. A. Smith, oil lamps . . . . .	2 25	
	<u>          </u>	\$5,323 99

## PAVING STREETS.

DR.

To appropriation . . . . .	\$4,000 00	
reserved fund . . . . .	4,303 25	
	<u>          </u>	\$8,303 25

CR.

Paid Chas. H. Robie, concreting . . . . .	\$1,218 41
Chas. A. Bailey, paving-stone . . . . .	2,649 01



<b>Paid</b> Chas. A. Bailey, flagging . . .	\$76 80	
Wm. C. Rogers, hardware . . .	3 85	
Daniels & Co., hardware . . .	2 75	
John Barnes, blacksmithing . . .	3 00	
Samuel Brown, Jr. . . .	31 40	
C. C. Webster, stone . . .	51 00	
A. N. Clapp, lanterns and oil, . . .	2 10	
A. G. Fairbanks, stone . . .	1 75	
Daniel W. Garland, flagging . . .	41 00	
James Kennard, stone . . .	87 50	
labor of men and teams . . .	4,134 68	
	<hr/>	\$8,303 25

### MACADAMIZING STREETS.

		DR.
<b>To</b> appropriation . . . . .	\$2,000 00	
Amoskeag Manufacturing Co., crushing stone . . . . .	335 82	
Joseph Suver, overdraft . . . . .	1 25	
reserved fund . . . . .	534 30	
	<hr/>	\$2,871 37

		CR.
<b>Paid</b> Manchester Water-works, water	\$30 00	
J. B. Varick, hardware . . . . .	37 93	
Daniels & Co., hardware . . . . .	4 35	
Derry & Co., blacksmithing . . . . .	84 00	
George P. Atwell, stone chips, . . . . .	9 50	
M. V. B. Garland, wood for crusher . . . . .	48 24	
W. E. & E. B. Dunbar . . . . .	2 27	
Hutchinson Bros., repairs on crusher . . . . .	118 44	

<b>Paid Thomas A. Lane, repairs on</b>		
crusher . . . . .	\$6	80
labor of men and teams . . . . .	2,508	84
Horace Willey, stone . . . . .	10	80
Samuel Hall, stone . . . . .	10	20
	<u>          </u>	\$2,871 37

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**GRADING FOR CONCRETE.**

**DR.**

<b>To appropriation . . . . .</b>	\$3,000	00
reserved fund . . . . .	903	97
	<u>          </u>	\$3,903 97

**CR.**

<b>Paid George H. Stearns, salt . . . . .</b>	\$2	53
D. W. Garland, stone . . . . .	88	55
C. A. Bailey, stone . . . . .	31	50
Palmer & Garmon, stone . . . . .	5	11
M. Fitzgerald, cutting stone . . . . .	1	62
J. B. Varick, hardware . . . . .	8	84
F. Ricard & Son, blacksmithing . . . . .	19	62
labor of men and teams . . . . .	3,746	20
	<u>          </u>	\$3,903 97

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**SEWERS AND DRAINS.**

**DR.**

<b>To appropriation . . . . .</b>	\$5,000	00
sundry persons, sewer licenses . . . . .	1,005	30
reserved fund . . . . .	3,960	41
	<u>          </u>	\$9,965 71

Paid B. W. Robinson & Co., sewer pipe . . . . .	\$4,355 23
E. G. Haynes, sewer pipe . . . . .	678 70
A. H. Lowell, cesspool covers . . . . .	104 87
Pettee & Whittle, cement . . . . .	231 65
Goodwin Bros., hubs . . . . .	75
J. Stickney, rubber mittens . . . . .	1 50
B. F. Porter, filing saws . . . . .	6 80
George H. Stearns, oil-meal . . . . .	1 55
Pike & Heald, lanterns, etc. . . . .	26 81
J. B. Varick, hardware . . . . .	13 61
Daniels & Merrill, hardware . . . . .	32
Daniels & Co., hardware . . . . .	60 28
A. C. Wallace, lumber . . . . .	38 05
A. J. Sawyer, lumber . . . . .	8 94
P. W. Dickey & Co., black- smithing . . . . .	6 13
Henry N. Stone, pump and hose . . . . .	80 50
Geo. W. Thayer & Son, rubber boots . . . . .	2 50
Plaisted & Haines, rubber boots . . . . .	31 25
Geo. W. Weeks, rubber boots . . . . .	3 40
A. N. Clapp, pails, etc. . . . .	3 87
Flint & Cass, lumber . . . . .	23 67
Hill & Co., express . . . . .	1 75
T. L. Thorpe, waste . . . . .	2 15
labor of men and teams . . . . .	4,193 77
Plumer & Holton, oil suits . . . . .	10 50
C. H. Hodgman & Co., truck- ing sewer pipe . . . . .	2 50
H. Fradd & Co., oil and lan- terns . . . . .	3 36
A. B. Smith, building sewer . . . . .	71 30

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 \$9,965 71

## BRIDGE-STREET SEWER.

DR.

To appropriation . . . . .	\$10,000 00
Patrick Kelley, overdraft . . . . .	1 24
Amoskeag Manufacturing Co. . . . .	382 60
reserved fund . . . . .	3,545 57
	<hr/> \$13,929 41

CR.

Paid Amoskeag Manufacturing Co., iron pipe, labor, etc. . . . .	\$3,708 39
B. W. Robinson & Co., mason- work . . . . .	622 45
Concord Railroad, freight on brick . . . . .	265 09
Ricard & Son, repairing tools . . . . .	40 08
Plaisted & Haines, rubber boots . . . . .	24 75
G. W. Thayer & Son, rubber boots . . . . .	15 00
Flint & Cass, lumber . . . . .	32 00
A. J. Sawyer, lumber . . . . .	10 91
A. C. Wallace, lumber . . . . .	276 29
Wm. C. Rogers, hardware . . . . .	4 93
Daniels & Co., hardware . . . . .	27 67
J. B. Varick, hardware . . . . .	50
Drake & Carpenter, cement . . . . .	879 60
Pettee & Whittle, cement . . . . .	9 45
D. W. Garland, stone . . . . .	27 00
Wm. Starr . . . . .	1 05
S. F. Adams, trucking . . . . .	7 00
labor of men and teams . . . . .	5,206 00
Natt & W. F. Head, brick . . . . .	1,771 25
	<hr/> \$13,929 41

## GRANITE BRIDGE.

		DR.
To appropriation . . . . .	\$600 00	
	<hr/>	\$600 00
		CR.
Paid A. C. Wallace, lumber . . . . .	\$310 53	
John Barnes, bolts, etc. . . . .	8 90	
Geo. Holbrook, lumber and la- bor . . . . .	8 70	
Walter Neal, lumber and labor . . . . .	90 75	
R. W. Martin, painting . . . . .	2 25	
J. B. Varick, hardware . . . . .	13 25	
A. N. Clapp, bolts and nails . . . . .	56	
Charles Bunton, bolts . . . . .	23 50	
By balance on hand . . . . .	141 56	
	<hr/>	\$600 00

## AMOSKEAG FALLS BRIDGE.

		DR.
To appropriation . . . . .	\$100 00	
reserved fund . . . . .	1,261 34	
	<hr/>	\$1,361 34
		CR.
Paid A. C. Wallace, lumber . . . . .	\$616 47	
Geo. Holbrook, lumber and labor . . . . .	21 97	
Walter Neal, lumber and labor . . . . .	345 53	
Daniels & Co., hardware . . . . .	102 21	
J. B. Varick, hardware . . . . .	76 88	
George H. Stearns . . . . .	75	

Paid James R. Carr, painting . . . . .	\$88 03	
Dexter L. Wilson, painting . . . . .	40 69	
W. H. Tibbetts, painting . . . . .	33 75	
Orin A. Stolker, painting . . . . .	45 06	
	<u>          </u>	\$1,361 34

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COMMONS.

		DR.
To appropriation . . . . .	\$200 00	
reserved fund . . . . .	192 30	
	<u>          </u>	\$392 30

		CR.
Paid G. F. Boshier & Co., lawn- mower . . . . .	\$18 00	
T. A. Lane, plumbing . . . . .	25	
J. S. Bacheler, plumbing . . . . .	71 11	
J. B. Varick, hardware . . . . .	6 75	
Geo. Holbrook, lumber and labor . . . . .	6 60	
labor of men and teams . . . . .	289 59	
	<u>          </u>	\$392 30

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REPAIRS OF SCHOOL-HOUSES.

		DR.
To appropriation . . . . .	\$5,000 00	
incidental repairs, amount trans- ferred . . . . .	278 47	
balance overdrawn . . . . .	101 24	
	<u>          </u>	\$5,379 71

Paid A. C. Wallace, lumber . . .	\$307 12
A. J. Sawyer, lumber . . .	195 54
W. W. Hubbard, lumber . . .	171 29
J. Hodge, lumber . . .	130 47
J. H. Maynard, lumber . . .	3 30
Austin, Johnson, & Co., lumber	13 44
Geo. H. Dudley, carpenter- work . . . . .	891 20
Geo. Holbrook, carpenter-work	182 67
L. N. Westover, carpenter- work . . . . .	24 75
Weathers & Co., stone-work .	15 00
Daniel W. Garland, stone-work	14 44
E. G. Haynes, sewer pipe .	22 42
B. W. Robinson & Co., mason- work . . . . .	362 84
J. J. Abbott, painting . . .	476 01
Sloan & Sullivan, painting .	104 50
J. L. Kennedy, painting . . .	31 89
Joel Daniels, painting . . .	141 43
Daniels & Co., hardware . .	91 08
J. B. Varick, hardware . . .	46 85
Pike & Heald, plumbing . . .	73 52
Pike & Heald, mats, urinals, etc. . . . .	57 74
Thos. A. Lane, plumbing, etc.	234 83
S. C. Forsaith & Co., lumber	126 87
Jas. S. Bachelor, boiler, plumb- ing, etc. . . . .	404 87
A. H. Lowell, iron-work . . .	48 76
James Briggs, repairing stoves	9 25
J. F. Libbey, paper-hanging .	3 69

<b>Paid</b> Amoskeag Manufacturing Co.,		
lumber . . . . .	\$326	22
J. T. Fanning, prof'l services	25	00
W. H. Vickery, keys . . . .	4	50
Dustin Marshall, team . . . .	4	50
Dennis Landry, stone-work . .	26	00
Chas. Dealy, stone-work . . . .	12	00
John Levill, stone-work . . . .	9	00
J. Bennett, glazing . . . . .	1	05
L. Ward, trucking . . . . .	2	25
H. J. Tirrell, trucking . . . .	10	00
Gilman Ellinwood, team . . . .	1	00
Moses Tracy, stone-work . . . .	15	00
Harvey Goodwin, lathing . . . .	13	75
J. C. Young, repairing roofs . .	102	68
Chas. H. Robie, concreting . . . .	30	00
J. A. B. Emerson, teaming . . . .	13	00
D. H. Morgan, labor . . . . .	5	00
R. D. Gay, wall-paper . . . . .	4	68
Drake & Carpenter, cement and lime . . . . .	39	92
N. E. School Furniture Com- pany, furniture . . . . .	109	17
Concord Railroad Corporation freight . . . . .	19	43
<b>By</b> balance overdrawn in 1880 . .	419	99
	<hr/>	\$5,379 71

NEW SCHOOL-HOUSE ON WEBSTER STREET.

		Dr.
<b>To</b> appropriation . . . . .	\$12,000	00
	<hr/>	\$12,000 00



		CR.
Paid Amoskeag M'fg Co., land	\$3,202 20	
H. T. Simpson & Son, brick	1,000 00	
D. W. Garland, putting in foundation	486 75	
John B. Clarke, printing	35 35	
By balance to new account	7,275 70	
	\$12,000 00	

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FUEL.

		DR.
To appropriation	\$3,300 00	
L. B. Bodwell, overdraft	12 56	
	\$3,312 56	

		CR.
Paid Rowell & Burns, wood	\$13 15	
Moore & Preston, coal	550 88	
E. P. Johnson & Co., coal	2,340 47	
L. B. Bodwell & Co., wood and coal	38 47	
Moses Tracy, sawing wood, etc.	4 55	
G. W. Varnum, sawing wood, etc.	1 65	
C. E. Clough, trucking	1 75	
W. H. Annan, weighing coal	9 75	
Samuel Jewett, sawing wood	59 63	
J. B. Clarke, printing	15 96	
By balance overdrawn in 1880	19 21	
balance to new account	257 09	
	\$3,312 56	

## FURNITURE AND SUPPLIES.

		DR.
To appropriation . . . . .	\$1,000 00	
balance from old account . . . . .	17 17	
	<hr/>	\$1,017 17
		CR.
Paid Daniels & Co., floor-brushes, call-bells, etc. . . . .	\$78 43	
E. S. Ritchie & Sons, electric machines, etc. . . . .	55 35	
N. E. School Furnishing Co., maps, etc. . . . .	75 15	
Parker & Gordon, furniture . . . . .	13 30	
Thorp & Marshall . . . . .	1 40	
J. N. Baker, repairing clocks . . . . .	20 95	
Gordon & Tobey, tassels, cord, etc. . . . .	4 37	
Higgins Bros., chairs, etc. . . . .	17 83	
W. W. Hubbard, drawing-mod- els, etc. . . . .	22 50	
H. P. Young, mounting ani- mals . . . . .	2 00	
D. Appleton & Co., charts . . . . .	8 00	
A. N. Clapp, hardware . . . . .	3 18	
Barr & Clapp . . . . .	5 12	
L. H. Josselyn, tables and desk . . . . .	18 75	
I. W. Thatcher, mop-wash . . . . .	60	
C. P. Trickey, crayons . . . . .	1 00	
Daniels & Co., thermometers, etc. . . . .	6 18	
Charles A. Smith, dusters . . . . .	32 13	
Pike & Heald . . . . .	62 90	
A. W. Bacheler . . . . .	22 12	

Paid George H. Dudley . . .	\$15 37	
Temple & Farrington . . .	59 82	
J. B. Clarke . . . . .	52 80	
Boston School Supply Co. . .	11 04	
L. Prang & Co. . . . .	6 20	
Wm. H. Vickery . . . . .	2 85	
J. Hodge . . . . .	1 90	
S. C. Forsaith & Co. . . . .	6 95	
E. R. Coburn . . . . .	31 75	
Thomas W. Lane . . . . .	90 75	
J. B. Varick . . . . .	85	
R. D. Gay . . . . .	9 00	
Thomas A. Lane . . . . .	4 70	
By balance to new account . . .	271 93	
	<hr/>	\$1,017 17

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BOOKS AND STATIONERY.

		DR.
To appropriation . . . . .	\$600 00	
balance from old account . . .	9 91	
	<hr/>	\$609 91
		CR.
Paid Thomas W. Lane . . . . .	\$177 35	
Temple & Farrington . . . . .	95 07	
L. Prang & Co. . . . .	75 68	
A. C. Stockin . . . . .	34 30	
E. R. Coburn . . . . .	62 81	
Robert S. Davis & Co. . . . .	58 00	
William Ware & Co. . . . .	42 00	
C. P. Trickey . . . . .	1 32	
Thompson, Brown, & Co. . . . .	13 75	
P. C. Cheney Co. . . . .	1 50	

Paid Knight, Adams, & Co. . . . .	\$7 54	
George C. Hoitt . . . . .	1 00	
George A. Smith & Co. . . . .	29 57	
By balance to new account . . . . .	10 02	
	<u>          </u>	\$609 91

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PRINTING AND ADVERTISING.

		DR.
To appropriation . . . . .	\$700 00	
balance from old account . . . . .	24 62	
	<u>          </u>	\$724 62

		CR.
Paid John B. Clarke . . . . .	\$427 55	
Union Publishing Co. . . . .	75 50	
Livingston & Kimball . . . . .	38 75	
H. H. Everett . . . . .	12 50	
Alfred Mudge & Son . . . . .	11 75	
By balance to new account . . . . .	158 57	
	<u>          </u>	\$724 62

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CONTINGENT EXPENSES.

		DR.
To appropriation . . . . .	\$900 00	
balance from old account . . . . .	100 14	
water-works . . . . .	1 00	
	<u>          </u>	\$1,001 14

CR.

Paid Manchester Water-works, water	\$389 65
W. E. Buck, use of team, 1880	30 25
W. E. Buck, use of team, 1881	90 50
W. E. Buck . . . . .	6 01
Manchester Gas Co., gas . . . . .	68 66
C. H. Wilkins, lettering diplomas . . . . .	20 05
B. F. Dennis, tuning piano . . . . .	3 00
D. B. Hennessey, tuning pianos . . . . .	10 00
J. S. Masseck . . . . .	13 06
N. S. Clark, ribbon . . . . .	9 92
Challis & Campbell, printing . . . . .	3 00
Hartford Boiler Inspector and Insurance Co. . . . .	100 00
J. N. Baker, repairing clocks . . . . .	9 60
George H. Dudley, making frames . . . . .	6 90
J. F. Woodbury & Co., repairing pokers . . . . .	75
Fitzpatrick & Boudreau, printing . . . . .	14 00
Class of 1881, removing and replacing desks, slides, etc. . . . .	25 00
Daniels & Co., hardware . . . . .	32
C. C. Webster, trucking . . . . .	10 00
J. Garvin, cleaning vault . . . . .	1 50
A. Stone, washing windows . . . . .	2 00
James Brothers, team . . . . .	2 00
F. T. E. Richardson . . . . .	2 50
Union Publishing Co., printing . . . . .	4 50
By balance to new account . . . . .	177 97

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 \$1,001 14

## TUITION.

		DR.
To Wm. E. Buck. tuition fees . . . . .	\$341 92	
balance from old account . . . . .	453 73	
	<u>          </u>	\$795 65
		CR.
By balance to new account . . . . .	\$795 65	
	<u>          </u>	\$795 65

## TRUANT OFFICER.

		DR.
To appropriation . . . . .	\$600 00	
	<u>          </u>	\$600 00
		CR.
Paid Samuel Brooks . . . . .	\$187 50	
Balance to new account . . . . .	412 50	
	<u>          </u>	\$600 00

## CARE OF ROOMS.

		DR.
To appropriation . . . . .	\$2,600 00	
balance from old account . . . . .	110 27	
	<u>          </u>	\$2,710 27
		CR.
Paid J. S. Avery . . . . .	\$574 92	
J. A. Carr . . . . .	599 60	
G. W. Varnum . . . . .	349 87	
D. H. Morgan . . . . .	350 17	

<b>Paid</b> Rufus Lamb . . . . .	249 96	
Charles P. Ordway . . . . .	107 00	
Hiram Brown . . . . .	16 25	
Lewis H. Dickey . . . . .	10 47	
Willie Woodeson . . . . .	87 10	
Sidney A. Dunbar . . . . .	14 00	
Harry C. Garvin . . . . .	16 14	
Edgar M. Carr . . . . .	12 06	
Susie A. Crosby . . . . .	5 92	
Willie McGuinness . . . . .	2 55	
Flora E. Blodgett . . . . .	6 55	
Susie G. Woodman . . . . .	5 66	
Ethie M. Knowles . . . . .	5 25	
Alvin Bean . . . . .	9 00	
Edward Gillis . . . . .	6 00	
Samuel E. Paige . . . . .	3 50	
M. B. Flanders . . . . .	9 00	
George Parker . . . . .	26 00	
Charles Shaughnessey . . . . .	8 25	
A. B. Campbell . . . . .	6 00	
J. H. Gaines . . . . .	75	
Oliver Merrill . . . . .	6 75	
Mary E. Dickey . . . . .	6 17	
<b>By</b> balance to new account . . . . .	215 38	
	<hr/>	<b>2,710 27</b>

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EVENING SCHOOLS.

		<b>DR.</b>
<b>To</b> appropriation . . . . .	\$1,000 00	
balance from old account . . . . .	4 72	
balance overdrawn . . . . .	370 03	
	<hr/>	<b>1,374 75</b>

CR.

Paid John B. Mills . . . .	\$140 00
Charles E. Cochran . . . .	147 00
F. C. Livingston . . . .	114 60
H. F. Roedelsperger . . . .	25 00
M. Eugenia Lord . . . .	100 00
M. A. Campbell . . . .	94 50
Phœbe A. Maguire . . . .	85 50
Hattie Emerson . . . .	41 00
Nellie M. James . . . .	9 00
Lenora C. Gilford . . . .	9 00
Josie L. Richardson . . . .	68 40
Mary J. Tynan . . . .	54 00
Gertrude H. Brooks . . . .	18 00
Helen F. Wetherbee . . . .	27 90
Emma W. Mitchell . . . .	54 00
Fannie Sanborn . . . .	19 80
Nina D. Annis . . . .	34 20
Delle E. Haynes . . . .	60 00
Kate M. Follansbee . . . .	53 10
G. W. Varnum, janitor . . . .	46 29
D. H. Morgan, janitor . . . .	31 50
Hutchins, Riedell, & Co., print- ing . . . .	18 00
J. B. Clarke, printing . . . .	41 43
T. W. Lane . . . .	6 01
Union Publishing Co. . . .	20 00
Charles A. Smith, side lamps	6 00
A. N. Clapp, oil, matches, etc.	6 77
Barr & Clapp. " " . . . .	7 92
Manchester Gas Light Co., gas	33 16
Frank D. Thorp, reflectors, lamps. etc. . . . .	2 67
	<hr/>
	\$1,374 75



## TEACHERS' SALARIES.

DR.

To appropriation . . . . .	\$39,000 00	
balance from old account . . . . .	171 40	
	<hr/>	\$39,171 40

CR.

Paid Albert W. Bachelor . . . . .	\$1,800 00
George I. Hopkins . . . . .	1,000 00
Lucretia E. Manahan . . . . .	750 00
Emma J. Ela . . . . .	475 00
Mary A. Buzzell . . . . .	475 00
Edward P. Sherburne . . . . .	1,300 00
Clara G. Fogg . . . . .	475 00
Lottie R. Adams . . . . .	440 00
Carrie E. Reid . . . . .	440 00
Mary L. Sleeper . . . . .	463 13
Annie O. Heath . . . . .	429 00
B. F. Dame . . . . .	1,300 00
Julia A. Baker . . . . .	475 00
Mary J. Fife . . . . .	440 00
Belle R. Daniels . . . . .	440 00
Mary F. Barnes . . . . .	440 00
Daniel A. Clifford . . . . .	1,300 00
Anstrice G. Flanders . . . . .	475 00
Sarah J. Greene . . . . .	264 00
Rocilla M. Tuson . . . . .	440 00
Frank S. Sutcliffe . . . . .	800 00
Mary A. Lear . . . . .	264 00
Etta J. Carley . . . . .	440 00
Nancy S. Bunton . . . . .	550 00
Mintie C. Edgerly . . . . .	403 75
Elvira S. Prior . . . . .	445 00

Paid Nellie M. James . . . .	\$273 00
Ella F. Salisbury . . . .	350 62
Clara N. Brown . . . .	414 38
Georgianna Dow . . . .	425 00
Helen M. Morrill . . . .	425 00
Florence L. Stone . . . .	255 00
Abbie E. Abbott . . . .	297 50
Emma F. Beane . . . .	403 75
Nellie B. Putnam . . . .	375 00
Ida J. Bartlett . . . .	390 00
Nellie Pearson . . . .	425 00
E. Jennie Campbell . . . .	270 00
Martha W. Hubbard . . . .	150 88
Lucia E. Esty . . . .	360 00
Emma L. Stokes . . . .	395 00
Jennie F. Bailey . . . .	425 00
Augusta S. Downs . . . .	425 00
Alice G. Lord . . . .	382 50
Maria N. Bower . . . .	425 00
Jennie G. Stebbins . . . .	382 50
Ellen E. McKean . . . .	420 00
Florence A. Nichols . . . .	365 63
Flora M. Senter . . . .	355 00
Ella F. Sanborn . . . .	425 00
Clara E. Woods . . . .	375 00
Carrie I. Stevens . . . .	307 50
Cora M. Dearborn . . . .	360 00
Belle M. Kelley . . . .	375 00
Lizzie J. West . . . .	405 00
Nellie I. Sanderson . . . .	403 75
Mary A. Smith . . . .	425 00
Bertha L. Dean . . . .	325 00
Anna J. Dana . . . .	278 37
Carrie M. Gilmore . . . .	414 38

<b>Paid</b> Florence McEvoy . . .	\$425 00
Hattie G. Flanders . . .	425 00
C. Augusta Abbott . . .	403 75
Fannie D. Moulton . . .	355 00
Lizzie P. Gove . . .	340 01
Lizzie A. Burns . . .	347 50
Addie M. Chase . . .	118 75
S. Izetta Locke . . .	425 00
Georgie A. Nute . . .	475 00
Mary W. Mitchell . . .	410 00
Olive J. Randall . . .	425 00
Mary E. Sylvester . . .	395 00
Olive A. Rowe . . .	325 00
Susie G. Woodman . . .	410 00
Louisa R. Quint . . .	345 00
F. M. Kelley . . .	10 00
Susie A. Crosby . . .	345 00
Gertrude H. Brooks . . .	143 50
Annie W. Patten . . .	168 75
Ella F. Sanborn . . .	625 00
F. L. Perry . . .	45 00
Lenora C. Gilford . . .	210 00
Emma C. Gee . . .	297 50
Susie G. Woodman . . .	98 75
Nancy P. Flint . . .	75 00
Annie A. Webster . . .	170 00
Della E. Haynes . . .	9 00
J. J. Kimball . . .	800 00
Mary K. Webster . . .	591 00
<b>By balance to new account</b> . . .	<b>1,668 00</b>
	<hr/>
	<b>\$39,171 40</b>

## CITY OFFICERS' SALARIES.

DR.

To appropriation . . . . .	\$12,000 00	
balance from old account . . . . .	197 66	
A. J. Sanborn, overdraft . . . . .	7 50	
	<hr/>	\$12,205 16

CR.

Paid J. L. Kelly, mayor . . . . .	\$11 00	
H. B. Putnam, mayor . . . . .	989 00	
N. P. Kidder, city clerk . . . . .	900 00	
H. R. Chamberlin, city treasurer . . . . .	19 37	
S. B. Putnam, city treasurer . . . . .	988 96	
Wm. R. Patten, city solicitor . . . . .	500 00	
Geo. E. Morrill, tax collector . . . . .	1,400 66	
J. A. Barker, city messenger . . . . .	570 00	
A. G. Stevens, city engineer . . . . .	86 33	
Geo. H. Allen, city engineer . . . . .	968 00	
Wm. E. Buck, superintendent of schools . . . . .	1,500 00	
James A. Fracker, clerk of common council . . . . .	91 67	
Geo. D. Towne, city physician . . . . .	25 00	
Geo. D. Towne, health officer . . . . .	25 00	
P. A. Devine, " " . . . . .	25 00	
L. H. Lamprey " " . . . . .	25 00	
C. S. Fisher, assessor . . . . .	330 00	
D. O. Furnald, " . . . . .	273 60	
H. W. Powell, " . . . . .	167 50	
Geo. W. Weeks " . . . . .	188 75	
John J. Ryan, " . . . . .	135 00	
J. H. Haynes, " . . . . .	195 00	
C. H. Brown, " . . . . .	155 00	

Paid Ira W. Moore, assessor . . .	\$161 25
Wm. B. Johnson, assistant assessor . . . . .	7 50
John P. Moore, assistant assessor . . . . .	60 00
Isaac Whittemore, assistant assessor . . . . .	57 50
J. Y. McQueston, assistant assessor . . . . .	22 50
Alfred Gagnon, assistant assessor . . . . .	22 00
Nicholas Nichols, clerk of assessors . . . . .	212 50
S. S. Perry, clerk of assessors	100 00
A. C. Flanders, inspector of check-lists . . . . .	4 00
E. G. Haynes, inspector of check-lists . . . . .	4 00
J. F. Conway, inspector of check-lists . . . . .	4 00
Michael Kane, inspector of check-lists . . . . .	4 50
Geo. Holbrook, moderator . . . . .	9 00
T. W. Challis, " . . . . .	3 00
Henry S. Perry, ward clerk . . . . .	5 00
J. F. Baldwin, " " . . . . .	5 00
Geo. E. Glines, " " . . . . .	5 00
L. C. Merrill, " " . . . . .	7 00
F. H. Redfield, " " . . . . .	5 00
Oliver J. Butman, selectman . . . . .	5 00
R. E. Davis, " . . . . .	5 00
Daniel B. Emery, " . . . . .	5 00
C. M. Edgerly, " . . . . .	5 00
Wm. G. Westover, " . . . . .	5 00

Paid E. G. Woodman, selectman . . . . .	\$5 00
A. Q. Gage, " . . . . .	5 00
E. N. Baker, " . . . . .	5 00
Thomas N. Bond, " . . . . .	5 00
H. C. Paige, " . . . . .	5 00
Frederick Knowlton, " . . . . .	5 00
Samuel Clark, " . . . . .	5 00
George H. Dudley, " . . . . .	10 00
J. Lightbody, " . . . . .	5 00
Charles Atherton, " . . . . .	5 00
John Willis, " . . . . .	5 00
William Stevens, " . . . . .	10 00
M. E. George, overseer of the poor . . . . .	37 50
H. B. Putnam, chairman, over- seers of the poor . . . . .	25 00
E. G. Woodman, overseer of the poor . . . . .	25 00
Horace Gordon, overseer of the poor . . . . .	12 50
Geo. H. Colby, overseer of the poor . . . . .	25 00
C. G. B. Ryder, overseer of the poor . . . . .	25 00
I. B. Farnum, overseer of the poor . . . . .	25 00
Robert Hall, overseer of the poor . . . . .	25 00
Geo. F. Sheehan, overseer of the poor . . . . .	25 00
Wm. H. Maxwell, overseer of the poor . . . . .	25 00
Wm. H. Maxwell, clerk of overseers of the poor . . . . .	25 00

Paid H. B. Putnam, <i>ex-officio</i> school committee . . . . .	\$10 00
Wm. J. Hoyt, <i>ex-officio</i> school committee . . . . .	10 00
J. T. Fanning, school committee . . . . .	10 00
A. C. Flanders, school committee . . . . .	10 00
L. E. Phelps, school committee . . . . .	10 00
Ezra Huntington, school committee . . . . .	10 00
G. L. Demarest, school committee . . . . .	10 00
C. A. O'Connor, school committee . . . . .	10 00
D. Mitchell, school committee . . . . .	10 00
B. C. Dean, school committee . . . . .	10 00
Wm. A. Webster, school committee . . . . .	10 00
M. P. Hall, school committee . . . . .	10 00
M. P. Hall, clerk of school committee . . . . .	100 00
Charles F. Everett, school committee . . . . .	10 00
F. T. E. Richardson, school committee . . . . .	10 00
W. M. Parker, school committee . . . . .	10 00
B. B. Weeks, school committee . . . . .	10 00
D. F. O'Connor, school committee . . . . .	10 00
Daniel Clark, school committee . . . . .	10 00
By balance on hand . . . . .	\$1,281 57
	<hr/> \$12,205 16

## CITY LIBRARY.

		DR.
To appropriation . . . . .	\$3,000 00	
balance from old account . . . . .	27 96	
police department . . . . .	2 03	
	_____	\$3,029 99

		CR.
Paid M. J. Buncher, librarian . . . . .	\$600 00	
Geo. W. Cook, ass't librarian . . . . .	211 50	
Jennie Spence, ass't librarian . . . . .	24 00	
P. C. Cheney Co., paper . . . . .	6 96	
Manchester Gas Co., gas . . . . .	218 18	
Manchester Water-works, water . . . . .	5 00	
Temple & Farrington, binding books, etc. . . . .	241 84	
Livingston & Kimball, printing . . . . .	101 34	
John B. Clarke, printing . . . . .	20 62	
Union Publishing Co., printing . . . . .	12 50	
L. B. Bodwell & Co., coal . . . . .	129 04	
E. P. Johnson & Co., coal . . . . .	82 00	
Ætna Insurance Co., insurance . . . . .	32 50	
Rowell & Burns, wood . . . . .	10 00	
trustees of city library . . . . .	1,000 00	
By balance to new account . . . . .	334 51	
	_____	\$3,029 99

## CITY LIBRARY ANNEX.

		DR.
To appropriation . . . . .	\$8,000 00	
	_____	\$8,000 00



		CR.
Paid A. G. Stevens, architect . . .	\$100 00	
W. Ireland, contractor . . .	3,000 00	
labor of men and teams . . .	229 97	
J. B. Clarke, advertising proposals . . . . .	25 20	
By balance to new account . . .	4,644 83	
	<u>          </u>	\$8,000 00

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### SINKING FUND.

		DR.
To appropriation . . . . .	\$20,000 00	
	<u>          </u>	\$20,000 00
		CR.
By reserved fund . . . . .	\$20,000 00	
	<u>          </u>	\$20,000 00

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### INCIDENTAL EXPENSES.

		DR.
To appropriation . . . . .	\$22,500 00	
To Board of Health, for cleaning vaults . . . . .	30 00	
L. B. Bodwell & Co., overdraft . . . . .	6 75	
Piper, Hawley, & Co., overdraft . . . . .	16 22	
old hearse sold . . . . .	75 00	
James Brothers, overdraft . . . . .	2 00	
Boston & Maine R. R., overdraft . . . . .	1 80	
Concord Railroad, overdraft . . . . .	3 80	
	<u>          </u>	\$22,635 57

Paid Geo. S. Henry, damage to person . . . . .	£325 00
J. F. Guyer, damage to person	623 55
Octave Lefebvre, damage to person . . . . .	35 00
Frank Clement, damage to person . . . . .	80 00
Almira Goodhue, damage to person . . . . .	50 00
J. W. Rand, damage to sheep .	40 00
S. T. Soper, damage to horse .	104 00
Sarah F. McQuestion, claim .	54 57
J. E. Stearns . . . . .	230 00
J. A. Barker, running boilers	102 14
Dr. G. A. Crosby, professional services . . . . .	3 00
L. B. How, return of births .	7 25
O. D. Abbott, " " .	10 75
L. M. French, " " .	10 25
J. W. Moor, " " .	5 25
C. M. Dodge, " " .	8 00
J. P. Walker, " " .	4 25
Leonard French, " " .	13 75
W. W. Wilkins, " " .	6 25
J. A. Jackson, " " .	7 25
J. W. Manning, trees . . . . .	58 50
Judith Sherer, matron at pest-house . . . . .	360 00
Manchester post-office, stamps	6 48
Elvin V. Corning, bounty on hawk . . . . .	20
E. P. Jenkins, bounty on hawk	20
H. M. Young, " " .	20

<b>Paid</b> Eddie Burke, bounty on hawk	\$0 20
B. F. Gardner, " " .	20
H. P. Young, " " .	20
D. K. Mack, execution . . .	213 04
Daniels & Co., hardware . . .	10 12
Pike & Heald, plumbing . . .	67 80
A. H. Lowell, iron-work and fountain . . . . .	335 30
Pettee & Whittle, cement . . .	35 05
Thos. A. Lane, plumbing, etc.	450 05
James S. Bacheler, lamp-posts for bridge, etc. . . . .	577 52
D. M. Goodwin; dippers and chains . . . . .	6 25
Joseph Johnson, stone-work . . .	20 60
W. H. Vickery . . . . .	2 25
William Landry, stone-work . . .	94 37
J. B. Varick, hardware . . . . .	1 95
Wm. C. Rogers, hardware . . . . .	25
Geo. H. Allen, cash paid for repairs of instruments . . . . .	30 01
Geo. H. Allen, incidental expenses . . . . .	53 03
H. F. Morse, auditing accounts . . . . .	10 00
John P. Young, assistant engineer . . . . .	206 00
Fred Hardy . . . . .	1 50
Charles H. Gage, rodman . . . . .	89 25
Wm. D. Hunter, " . . . . .	60 00
Benj. D. Batchelder, " . . . . .	79 25
C. H. Horne, " . . . . .	64 00
Charles E. Copp, " . . . . .	36 50
W. D. Wright, " . . . . .	12 00
Elmer W. Stearns, " . . . . .	46 50

Paid W. H. Bennett, rodman . . . . .	\$2 00
Geo. W. Varnum, " . . . . .	16 00
A. C. Wallace, lumber . . . . .	72 37
A. J. Sawyer, " . . . . .	8 56
J. Hodge, " . . . . .	1 55
J. H. Maynard, lumber and labor . . . . .	392 40
E. A. G. Holmes, lumber and labor . . . . .	18 00
George Holbrook, lumber and labor . . . . .	51 38
George Holbrook, lumber and labor . . . . .	122 26
Head & Dowst, lumber and labor . . . . .	58
W. Ireland, lumber and labor	18 28
Thomas W. Lane, blank-books, etc. . . . .	15 71
Temple & Farrington, blank- books, etc. . . . .	206 50
John B. Clarke, printing . . . . .	269 98
C. L. Fitzpatrick, printing . . . . .	2 00
Republican Press Association, printing . . . . .	17 75
Union Publishing Co., printing	126 00
H. H. Everett, printing . . . . .	12 50
Livingston & Kimball, printing	2 50
Challis & Eastman, printing . . . . .	17 95
Challis & Campbell, printing . . . . .	12 50
Harley, Robbie, & Vadnais, cloth for decorating city hall	3 60
Frank P. Colby, distributing tax bills . . . . .	1 80

<b>Paid</b> Harley, Robbie, & Vadnais, cloth for decorating city hall	\$36 49
Weston & Hill . . . . .	16
Piper, Hawley, & Co., cloth for pest-house . . . . .	32 44
D. K. White, serving notices, etc. . . . .	12 00
Manchester Water-works, wa- ter for watering-troughs .	118 86
Samuel Cooper, professional services . . . . .	36 25
Manchester Gas Co., gas .	44 08
Wm. Shepherd, team . . .	4 00
E. T. James, teams . . . .	60 50
Cavanaugh Bros., teams .	25 50
J. C. Nichols & Son, teams .	22 00
J. A. Brown, teams . . . .	39 00
C. H. Hodgman & Co., teams	28 25
C. C. Perry, teams . . . .	33 00
James Brothers, teams . .	55 50
C. M. Stevens, team . . . .	1 50
Hook and Ladder Co., deco- rating city hall . . . . .	24 00
C. E. Clough . . . . .	2 00
D. W. Garland, wall at Ray brook . . . . .	1,836 44
D. W. Garland, stone at engine house . . . . .	16 50
D. W. Garland, coping for Con- cord-square fountain . . .	50 50
D. W. Garland, stone for Mc- Gregor bridge . . . . .	1,487 00
Wm. R. Patten, witness fees, etc. . . . .	142 94

Paid C. C. Harriman, grading east Spruce street . . . . .	\$110 00
H. B. Putnam, allowance for team . . . . .	132 00
Lamson & Marden, repairs of tools, stone, etc. . . . .	46 83
N. P. Kidder, making city re- port. etc. . . . .	153 68
D. C. Whittemore . . . . .	20 00
Amoskeag Manufacturing Co. rent of hay and wood stand	100 00
S. G. Rowell . . . . .	11 25
Western Union Telegraph Co., telegrams . . . . .	79
Wm. Landry, stone-work, Mc- Gregor bridge . . . . .	147 87
J. J. Abbott, painting . . . . .	50
L. N. Dufrain, repairs on pump	1 50
R. W. Bean, taking insane per- son to asylum . . . . .	2 00
A. C. Wallace, lumber . . . . .	8 11
W. H. Laskey, elastic bands . . . . .	1 15
A. J. Sawyer, lumber . . . . .	17 28
Ellen Kerrin . . . . .	10 00
J. B. Unruh, numbering houses . . . . .	3 50
D. B. Brooks & Co., ink . . . . .	75
P. A. Devine, burying nuisances	1 00
Patrick Finn, burying nui- sances . . . . .	6 25
Geo. D. Towne, professional services . . . . .	12 25
C. H. Reed, professional ser- vices . . . . .	56 00

Paid P. O. Woodman, painting sign	\$1 25
Sampson, Davenport, & Co., directories . . . . .	12 00
Thomas Adams, elm trees . . . . .	18 75
Chas. E. Rowe, stone-work . . . . .	32 29
R. D. Gay, paper-hangings . . . . .	1 05
Robert Heath, expenses to Bos- ton for committee . . . . .	5 65
Fairbanks & Pearson, removing body . . . . .	5 00
J. C. Ray, labor on Elm street . . . . .	5 00
U. S. & C. Express Co. . . . .	15
D. F. Cressey & Co., black- smithing . . . . .	9 88
Tristram Berry, carpenter-work . . . . .	1 15
S. B. Putnam, auditing collec- tor's accounts . . . . .	25 00
John Prince, trees, . . . . .	48 00
A. Bodwell, stone . . . . .	90 36
J. A. Brown, stone and stone- work at Granite bridge . . . . .	436 50
Eagle Odorless Apparatus Co., odorless excavator, etc. . . . .	1,000 00
Geo. E. Mores, mowing square . . . . .	3 50
James Wilkins . . . . .	3 00
J. McDerby, repairing roof of engine-house . . . . .	2 00
Boston & Maine R. R., freight . . . . .	1 80
Concord Railroad, freight . . . . .	3 80
P. C. Cheney Co., paper . . . . .	68
E. S. Elliott & Co., labor on Bridge-street bridge . . . . .	36 00
T. W. Challis . . . . .	3 50

Paid Adams & Lamprey, goods for pest-house . . . . .	\$2 10
Daniel Healy, whitewashing tree-boxes . . . . .	38 25
Selinda German, labor on en- gine-house . . . . .	1 50
D. P. & D. L. Perkins, pro- fessional services . . . . .	12 00
F. S. Bodwell, watering- trough . . . . .	100 00
J. T. Faming, examination of McGregor bridge . . . . .	50 00
N. S. Bean, examination of McGregor bridge . . . . .	25 00
Chas. H. Hutchinson, exami- nation of McGregor bridge . . . . .	25 00
Edw. S. Philbrick, examina- tion of McGregor bridge . . . . .	50 00
Aretas Blood, abatement of tax . . . . .	31 24
Wm. H. Newhall, labor at Amoskeag Cemetery . . . . .	25 50
Daniel W. Trow, road-ma- chine . . . . .	200 00
Chas. N. Wait, examination of cement . . . . .	5 00
Isaac H. Webster, land in Dis- trict No. 9 . . . . .	75 00
Pennacook Hose Co., labor at dump . . . . .	11 20
Fire King Co., pumping out cellars . . . . .	15 40
Manchester P. O., stamps . . . . .	5 06



<b>Paid</b> H. S. Whitney, over-payment of poll-tax . . . . .	\$2 94
Drake & Carpenter, cement . . . . .	5 65
1st N. H. Battery, firing sa- lutes . . . . .	92 47
1st Regt. Band, services Sept. 27, 1881 . . . . .	66 00
Kennedy's Drum Corps, ser- vices Sept. 27, 1881 . . . . .	10 00
J. N. Bruce, decorating mon- ument . . . . .	6 00
G. A. R. Quartet, services Sept. 27, 1881 . . . . .	10 00
French Band, services Sept. 27, 1881 . . . . .	50 00
J. A. Sanborn & Co., re- pairing team . . . . .	3 75
Geo. E. Glines . . . . .	5 00
L. B. Bodwell & Co., wood for city engineer's office . . . . .	15 50
D. F. Cressey, blacksmithing . . . . .	6 16
Pettee & Whittle, cement . . . . .	154 40
Corrugated Metal Co., ext. ser- vices on McGregor bridge . . . . .	1,678 94
Thos. D. Poole, ribbon for stamp . . . . .	1 50
Manchester Novelty Co., dat- ing-stamp . . . . .	4 50
Labor of men and teams . . . . .	2,699 60
J. A. Barker, care of library boiler . . . . .	13 00
Jas. O'Grady, decorating city hall . . . . .	4 00

Paid John Welch, decorating city hall . . . . .	\$2 00
Helen Hill, decorating city hall . . . . .	1 25
Wm. H. Morrill, decorating city hall . . . . .	5 00
M. Fitzgerald, stone-work on fountain . . . . .	113 21
Timothy Shea, cleaning vaults . . . . .	4 00
D. Wadsworth, board of prisoners . . . . .	22 00
James S. Bachelor, plumbing . . . . .	99 14
Pike & Heald, plumbing . . . . .	6 09
Daniels & Co., hardware . . . . .	2 13
I. R. Dewey, cleaning monument globes . . . . .	6 00
W. L. Blenus . . . . .	2 40
S. B. Putnam . . . . .	6 89
Drake & Carpenter, cement . . . . .	11 55
city-farm team, labor at pest-house . . . . .	3 00
Nathaniel George, use of watering-trough . . . . .	3 00
D. H. Morgan, labor on fence . . . . .	4 00
Manchester Steam Laundry, washing cloth . . . . .	3 00
Hiram Simons, abatement of tax . . . . .	76
reserved fund, amount transferred . . . . .	2,616 83
	-----\$22,635 57

## PINE GROVE CEMETERY.

DR.

To appropriation . . . . .	\$500 00	
balance from old account . . . . .	830 32	
lots sold . . . . .	1,205 22	
Wm. C. Chase, lumber sold . . . . .	80 00	
	<hr/>	\$2,615 54

CR.

Paid Wm. C. Chase, superintendent	\$136 75
B. A. Stearns, superintendent	467 96
Wm. C. Chase, labor . . . . .	277 25
A. B. Chase, " . . . . .	74 15
C. C. Webster, " . . . . .	126 38
I. G. Howe, " . . . . .	26 60
John Madden, " . . . . .	5 00
Paul Champagne, " . . . . .	12 50
John Mulhern, " . . . . .	12 50
Fred Heath, " . . . . .	1 25
M. Greenwood, " . . . . .	13 13
A. Fushier, " . . . . .	27 50
S. P. Moody, " . . . . .	26 66
Frank Emerson, " . . . . .	4 00
Eugene Verrett, " . . . . .	12 18
Palmer & Garmon, grave numbers . . . . .	112 00
Henry Fisk, plumbing . . . . .	1 93
J. F. James, salary as treasurer . . . . .	25 00
J. F. James, engineering services . . . . .	54 37
Daniels & Co., hardware . . . . .	47 44
A. H. Daniels, expenses of committee to Boston . . . . .	15 15

Paid Pike & Heald, roofing tin, etc. . . . .	\$4 83	
Temple & Farrington, blank- books . . . . .	1 62	
By balance to new account . . . . .	1,129 39	
	<hr/>	\$2,615 54

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VALLEY CEMETERY.

DR.

To appropriation . . . . .	\$1,500 00	
balance from old account . . . . .	829 76	
lot sold . . . . .	28 50	
tomb fees . . . . .	106 00	
water rent . . . . .	13 00	
reserved fund . . . . .	570 96	
	<hr/>	\$3,048 22

CR.

Paid A. H. Hartshorn, superintend- ent . . . . .	\$15 50	
F. B. Balch, superintendent . . . . .	458 15	
D. W. Garland, stone-work . . . . .	1,192 54	
Manchester water-works, water . . . . .	32 25	
Benj. Stevens, labor . . . . .	30 00	
S. B. Duke, labor . . . . .	30 00	
D. H. Varnum, teaming . . . . .	29 25	
D. W. Fling, lot . . . . .	51 00	
J. B. Varick, hardware . . . . .	3 75	
Thos. A. Lane, iron pipe, etc. . . . .	300 97	
H. H. Huntress, plants . . . . .	7 00	
J. A. B. Emerson, grading . . . . .	750 78	
Daniel Healy, whitewashing tomb . . . . .	1 50	

Paid A. H. Lowell, resetting stone posts . . . . .	\$30 00	
J. B. Clarke, printing . . . . .	3 75	
F. S. Bodwell, stone and labor . . . . .	64 00	
A. J. Sawyer, lumber . . . . .	47 78	
	<hr/>	\$3,048 22

## DECORATION OF SOLDIERS' GRAVES.

		DR.
To appropriation . . . . .	\$200 00	
	<hr/>	\$200 00
		CR.
Paid Louis Bell Post No. 3, G. A. R. . . . .	\$200 00	
	<hr/>	\$200 00

## STARK-MONUMENT SQUARE.

		DR.
To balance from old account . . . . .	\$200 00	
	<hr/>	\$200 00
		CR.
By balance to new account . . . . .	\$200 00	
	<hr/>	\$200 00

## WOMEN'S AID AND RELIEF SOCIETY HOSPITAL.

		DR.
To appropriation . . . . .	\$300 00	
reserved fund, am't transferred . . . . .	400 00	
	<hr/>	\$700 00

		CR.
Paid treasurer of hospital . . . .	\$700 00	
	<u>          </u>	\$700 00

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FIREMEN'S PARADE.

		DR.
To appropriation . . . . .	\$300 00	
	<u>          </u>	\$300 00

		CR.
Paid First Regiment Band . . . . .	60 00	
George Fletcher, caterer . . . . .	180 75	
C. H. Hodgman & Co., team . . . . .	10 00	
William Shepherd, team . . . . .	4 00	
James Bros., team . . . . .	5 00	
E. T. James, team . . . . .	5 00	
Cavanaugh Bros., team . . . . .	5 00	
J. A. Brown, team . . . . .	10 00	
J. B. Clarke, printing . . . . .	5 00	
T. W. Lane, stationery . . . . .	4 09	
By balance on hand . . . . .	11 16	
	<u>          </u>	\$300 00

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FIRE DEPARTMENT.

		DR.
To appropriation . . . . .	\$12,000 00	
reserved fund . . . . .	2,042 77	
	<u>          </u>	\$14,042 77

## AMOSKEAG STEAM FIRE ENGINE CO. NO. 1.

CR.

Paid Manchester Gas Co., gas . . . . .	\$42 82	
Geo. W. Butterfield, driver . . . . .	217 00	
L. B. Bodwell & Co., coal and wood . . . . .	64 14	
E. P. Johnson & Co., coal . . . . .		
H. H. Stearns, matches, oil, etc. . . . .	2 45	
Daniels & Co., hardware . . . . .	20	
Wm. C. Rogers, hardware . . . . .	97	
Pike & Heald, flue-brush . . . . .	35	
James S. Bachelor, hose, noz- zle, etc. . . . .	10 85	
James Baldwin, shavings . . . . .	1 00	
George R. Simmons, labor . . . . .	1 20	
H. H. Glines, labor . . . . .	2 40	
Manchester Locomotive-works, repairs . . . . .	7 95	
Company's bill for services . . . . .	1,150 00	
	<hr/>	\$1,612 76

## N. S. BEAN STEAM FIRE ENGINE CO. NO. 4.

CR.

Paid Manchester Gas Co., gas . . . . .	\$47 52
A. B. Cushing, driver . . . . .	217 00
L. B. Bodwell & Co., coal and wood . . . . .	61 76
E. P. Johnson & Co., coal . . . . .	126 42
Geo. H. Stearns, matches, oil, etc. . . . .	5 73

Paid Peter Ducherme, repairing harness . . . . .	\$2 50	
Daniels & Co., hardware . . . . .	3 80	
Wm. C. Rogers, hardware . . . . .	35	
Dennis Clifford, driver . . . . .	23 00	
J. H. Wiggin & Co., barrels . . . . .	75	
Manchester Locomotive-works, repairs . . . . .	257 75	
Company's bill for services . . . . .	1,135 00	
	<hr/>	\$1,881 58

PENNACOOK HOSE COMPANY No. 1.

CR.

Paid Manchester Gas Co., gas . . . . .	\$56 38	
W. L. Blenus, driver . . . . .	600 00	
Frank Dustin, driver . . . . .	21 00	
L. B. Bodwell & Co., wood and coal . . . . .	56 14	
E. P. Johnson & Co., coal . . . . .	126 42	
Ezra W. Kimball, repairing harness . . . . .	7 55	
Daniels & Co., hardware . . . . .	4 92	
Wm. C. Rogers, hardware . . . . .	5 29	
Pike & Heald, wash-bowl, matches, etc. . . . .	2 40	
James S. Bacheler, hose . . . . .	6 50	
D. M. Goodwin, brooms . . . . .	1 00	
Manchester Locomotive-works, new carriage . . . . .	650 00	
Manchester Locomotive-works, repairs . . . . .	4 00	
Company's bill for services . . . . .	1,532 50	
	<hr/>	\$3,074 10



## MASSABESIC HOSE COMPANY No. 2.

CR.

Paid Manchester Gas Co., gas . . .	\$25 12	
Walter Seaward, driver . . .	50 00	
L. B. Bodwell & Co., wood and coal . . . . .	69 71	
J. B. McCrillis & Son, repairs on carriage . . . . .	1 25	
W. Q. Sargent, matches, oil, etc.	2 88	
Joel Daniels, painting hats . . .	8 50	
Rowell & Burns, coal . . .	34 00	
Company's bill for services :	986 50	
	<hr/>	\$1,177 96

## E. W. HARRINGTON HOSE COMPANY No. 3.

CR.

Paid Manchester Gas Co., gas . . .	\$40 92	
John Dowd, driver . . .	197 55	
Charles Blood, driver . . .	24 00	
L. B. Bodwell & Co., wood and coal . . . . .	55 75	
Moore & Preston, coal . . .	35 00	
Ezra W. Kimball, blankets, tugs, etc. . . . .	13 50	
E. N. Fogg, duster . . .	2 37	
H. C. Ranno, repairing har- ness . . . . .	8 70	
H. C. Ranno, repairing har- ness . . . . .	45 00	
J. B. Varick, hose . . .	7 00	
J. McLoughlin, carrying in coal . . . . .	1 50	

Paid Hutchinson Bros., iron-work	\$5 97	
W. C. Smith, saddle pieces, etc.	6 50	
H. Fradd & Co., oil, soap, brooms, etc. . . . .	1 56	
Manchester Locomotive-works, repairs . . . . .	594 02	
Company's bill for services .	1,002 50	
	<hr/>	\$2,041 84

## EXCELSIOR HOOK AND LADDER CO. No. 1.

CR.

Paid Manchester Gas Co., gas .	33 44	
A. J. Robie, driver . . .	50 00	
M. B. Wilson, driver . . .	1 00	
Frank Dustin, driver	7 00	
L. B. Bodwell & Co., wood and coal . . . . .	54 04	
Moore & Preston, wood . .	9 00	
Geo. H. Stearns, matches .	2 25	
J. B. Varick, hardware . .	0 00	
J. B. McCrillis & Son, repair- ing carriage . . . . .	9 25	
J. A. Sanborn, repairing car- riage . . . . .	4 00	
Pike & Heald, pipe, and set- ting up stove . . . . .	1 15	
T. A. Lane, repairing hose, etc.	55	
A. H. Weston, firemen's coats	225 00	
Company's bill for services .	1,892 50	
	<hr/>	\$2,292 18

## ENGINEERS' DEPARTMENT AND MISCELLANEOUS.

CR.

Paid Manchester Water-works, water	\$943 37
Manchester Gas Co., gas . . . . .	13 14
Manchester Locomotive-works	13 40
L. B. Bodwell & Co., coal . . . . .	5 75
J. Stickney, repairing hose . . . . .	40 70
Pike & Head, lantern-wicks, etc. . . . .	1 73
Daniels & Co., keys . . . . .	2 40
Peter Sheehan, shoveling out hydrants . . . . .	3 75
Thomas O'Connor, shoveling out hydrants . . . . .	3 75
J. R. Carr, repairs on bell tower . . . . .	5 30
John Barnes, neck-yokes, etc.	3 00
Brock & Driscoll, hardware . . . . .	2 40
John B. Clarke, printing . . . . .	23 75
P. W. Dickey & Co., iron-work	65
W. U. Telegraph Co., tele- grams . . . . .	50
J. B. McCrillis & Son, fil- ters, etc. . . . .	4 00
J. G. Jones, trucking . . . . .	1 50
Tristram Berry, labor . . . . .	1 50
T. W. Lane, stationery . . . . .	8 55
Plumer & Holton, overalls . . . . .	12 00
Weston & Hill, carpets . . . . .	61 11
Manchester Locomotive-works, labor, etc. . . . .	45 09
Parker & Gordon, chairs for engineer's room . . . . .	36 00
W. H. Vickery, keys . . . . .	1 10

Paid James S. Bachelor, repairing hose . . . . .	\$2 91	
Thomas W. Lane, chief engineer . . . . .	300 00	
A. C. Wallace, assistant engineer . . . . .	100 00	
B. C. Kendall, assistant engineer . . . . .	100 00	
O. E. Kimball, assistant engineer . . . . .	100 00	
Sam C. Lowell, assistant engineer . . . . .	100 00	
Sam C. Lowell, clerk of board . . . . .	25 00	
	<hr/>	\$1,962 35

RECAPITULATION.

Paid Amoskeag S. F. E. Co. No. 1	1,612 76	
N. S. Bean S. F. E. Co. No. 4	1,881 58	
Pennacook Hose Co. No. 1 .	3,074 10	
Massabesic Hose Co. No. 2 .	1,177 96	
E. W. Harrington Hose Co. No. 3 . . . . .	2,041 84	
Excelsior Hook and Ladder Co. No. 1 . . . . .	2,292 18	
Miscellaneous . . . . .	1,962 35	
	<hr/>	\$14,042 77

FIRE-ALARM TELEGRAPH.

DR.

To appropriation . . . . .	\$1,000 00	
reserved fund . . . . .	49 48	
	<hr/>	\$1,049 48

CR.

Paid Tristram Berry, superintendent . . . . .	\$300 00
A. H. Lowell, zinc . . . . .	155 15
Thomas W. Lane, use of team, telegrams, etc. . . . .	18 65
C. H. Hodgman & Co., trucking . . . . .	8 98
C. Dame, trucking . . . . .	1 50
James Brothers, teams . . . . .	10 00
M. G. Crane & Co., signal box . . . . .	125 00
M. G. Crane & Co., switch box . . . . .	35 00
M. G. Crane & Co., moving apparatus . . . . .	67 50
Stearns & George, battery-jars, wire, etc. . . . .	59 81
Wm. T. Smith, blue vitriol . . . . .	120 18
Wm. C. Rogers, wire, vise, etc. . . . .	23 65
Daniels & Co., wire and cement . . . . .	1 46
W. E. & E. B. Dunbar, iron- work . . . . .	70
P. W. Dickey & Co., iron-work . . . . .	22 00
Hutchinson Bros., iron-work . . . . .	70
Pike & Heald, plumbing . . . . .	15 36
Thomas A. Lane, plumbing . . . . .	3 39
James S. Bachelor, plumbing . . . . .	1 05
William Shepherd . . . . .	9 50
J. Hodge, lumber . . . . .	2 95
G. W. Goodwin, iron-work . . . . .	7 00
B. C. Kendall, labor . . . . .	10 00
John B. Clarke, printing . . . . .	17 40
Amoskeag Manufacturing Co., iron-work . . . . .	11 00
W. H. Vickery, iron-work . . . . .	6 00
Manchester Gas Co., gas . . . . .	78

Paid L. B. Harris . . . . .	\$1 96	
C. B. Littlefield . . . . .	1 25	
Charles A. Puffer, labor . . . . .	2 50	
Peter Vassier, labor . . . . .	7 50	
Concord Railroad, freight . . . . .	1 56	
	<hr/>	\$1,049 48

## POLICE DEPARTMENT.

DR.

To appropriation . . . . .	\$14,000 00	
J. C. Bickford, fees and costs . . . . .	1,791 40	
A. D. Stark, fines and costs . . . . .	7,752 09	
	<hr/>	\$23,543 49

CR.

Paid N. P. Hunt, judge . . . . .	\$1,314 00	
I. L. Heath, assistant justice . . . . .	56 00	
J. C. Bickford, clerk . . . . .	475 00	
H. W. Longa, city marshal . . . . .	36 00	
A. D. Stark, city marshal . . . . .	817 43	
A. D. Stark, witness fees, etc. . . . .	487 63	
W. B. Patten, assistant mar- shal . . . . .	15 65	
H. W. Longa, assistant marshal . . . . .	703 47	
David Perkins, captain night- watch . . . . .	27 00	
M. J. Jenkins, captain night- watch . . . . .	840 36	
H. Stearns, night watchman . . . . .	737 00	
J. F. Cassidy, " " . . . . .	728 00	
J. Bucklin, " " . . . . .	730 00	
T. Frain, " " . . . . .	782 50	
P. Cannon, " " . . . . .	24 00	

Paid Z. B. Wright, night watchman		\$596 50
M. Fox,	" "	20 00
H. S. Reed,	" "	24 00
I. P. Fellows,	" "	770 00
W. H. Newhall,	" "	734 50
H. Harmon,	" "	28 00
E. Farrar,	" "	752 00
T. R. Northrup,	" "	24 00
J. F. Dunn,	" "	728 50
D. Stevens,	" "	24 00
M. Marr,	" "	753 50
E. Carr.	" "	712 50
L. Tebbetts.	" "	717 00
C. H. Reed,	" "	675 00
F. Bourrassau,	" "	728 50
G. Rochette,	" "	611 00
P. Reischer,	" "	703 00
J. C. Colburn, day police	.	670 00
R. W. Bean, day police	.	670 00
E. G. Woodman, special police		2 00
G. W. Minard,	" "	15 00
E. H. Holmes,	" "	289 50
J. M. Watson,	" "	13 00
Leander P. Ash,	" "	1 50
J. H. Tirrell,	" "	40 00
J. M. Twombly,	" "	2 00
Henry Bennett,	" "	77 50
Peter Gosselin.	" "	1 00
Willis Sanborn,	" "	1 00
G. W. Varnum,	" "	6 00
C. E. Copp,	" "	269 00
S. L. Mitchell,	" "	94 00
Archie Hill,	" "	34 00
John Dunn,	" "	54 50

Paid T. R. Northrup, special police	\$5 00
Harvey Hill, " " .	40 00
J. E. Bailey, " " .	42 00
M. A. Clark, " " .	1 00
H. C. Cunningham, " " .	4 00
C. D. Emerson, " " .	5 00
George Goodwin, " " .	5 00
D. C. Jackson, " " .	43 00
E. A. G. Holmes, " " .	10 50
S. P. Chase, " " .	5 00
P. Riley, " " .	7 00
R. A. Challis, " " .	5 00
C. O'Shaughnessey, " " .	3 00
J. A. Carr, " " .	5 00
F. H. Warren, " " .	49 00
S. Amsden, " " .	2 00
H. C. Sleeper, " " .	5 00
M. L. Brown, " " .	2 00
A. Rowell, " " .	15 50
L. M. Gould, " " .	4 00
T. P. Heath, " " .	15 00
Benj. Hutchinson, " " .	9 00
M. C. Brown, " " .	2 00
S. C. Gould, " " .	2 00
N. Baker, " " .	4 00
Brigham & Pratt, crackers .	20 85
L. B. Harris, telephone .	112 65
Granite State Telephone Co., telephone . . . . .	12 00
J. A. Barker, meals for lodgers and prisoners . . . . .	75 90
Daniel Davis, meals for lodgers and prisoners . . . . .	13 50
W. U. Telegraph Co., telegrams	26 51



Paid D. Evans & Co., buttons . . . . .	\$50 00
Thomas W. Lane, ink and stationery . . . . .	8 50
Livingston & Kimball, printing . . . . .	2 50
H. H. Everett, " . . . . .	2 50
J. B. Clarke, " . . . . .	37 25
Temple & Farrington, stationery, blank-books, etc. . . . .	29 05
I. Blake . . . . .	4 00
Challis & Eastman, printing . . . . .	141 35
Challis & Campbell, printing . . . . .	29 90
C. H. Simpson, teams . . . . .	6 00
J. A. Brown, " . . . . .	5 00
E. T. James, " . . . . .	47 75
James Bros., " . . . . .	41 75
J. P. Bartlett, professional services . . . . .	4 00
J. B. Pattee, professional services . . . . .	2 00
J. H. Andrews, professional services . . . . .	2 00
William Little, professional services . . . . .	2 00
C. E. Cochran, professional services . . . . .	2 00
Burnham & McAllister, professional services . . . . .	6 12
M. J. Healy, professional services . . . . .	2 12
Clough & Clark, professional services . . . . .	2 00
Thomas D. Luce, professional services . . . . .	4 00
W. W. Owen, washing blankets . . . . .	2 00

Paid Daniels & Co., oil, etc. . . . .	\$12 00	
Pike & Heald, lantern, matches, etc. . . . .	4 95	
Tristram Berry, graining chairs	1 22	
Tristram Berry, repairing chairs	1 70	
Parker & Gordon, office chairs	4 50	
C. M. Dodge, professional ser- vices . . . . .	3 00	
Eagle Odorless Apparatus Co., deodorizer . . . . .	3 25	
Manchester Gas Co., gas . . . . .	484 60	
C. H. Hodgman, trucking . . . . .	2 00	
city library . . . . .	2 03	
By balance to new account . . . . .	3,424 70	
	<u>          </u>	\$23,543 49

### CITY HALL AND OFFICES.

DR.

To C. A. Smith, overdraft . . . . .	\$0 95	
rent of stores and hall . . . . .	2,407 09	
J. S. Paine, overdraft . . . . .	82 00	
O. D. Carpenter, old desk . . . . .	1 00	
Mrs. R. A. Lawrence, old desk . . . . .	3 00	
reserved fund . . . . .	2,758 74	
	<u>          </u>	\$5,252 78

CR.

Paid Manchester Water-works, water	\$1,938 20
Manchester Gas Co., gas . . . . .	168 24
Daniels & Co., hardware . . . . .	38 11
J. B. Varick, hardware . . . . .	4 27
Wm. C. Rogers, hardware . . . . .	90
B. F. Fogg & Co., plumbing . . . . .	70 03

<b>Paid</b> Thomas A. Lane, plumbing . . .	\$11 07
James S. Bachelor, " . . .	78 62
Pike & Heald, " . . .	99 33
J. F. Ford, " . . .	39 43
A. C. Wallace, lumber . . .	43 34
Walter Neal, lumber and labor . . .	200 31
E. A. G. Holmes, labor . . .	10 00
Geo. H. Dudley, labor . . .	5 27
Wm. G. Westover, lumber and labor . . . . .	4 00
George Holbrook, lumber and labor . . . . .	21 53
Straw & Lovejoy, repairing clocks . . . . .	32 00
J. Hodge, lumber . . . . .	117 63
J. J. Abbott, painting . . . . .	6 00
Wooton Desk Manufacturing Co., desks . . . . .	95 70
Higgins Brothers, chairs . . . . .	35 25
J. S. Paine, furniture . . . . .	341 38
Lawrence. Wilde, & Co., fur- niture for council-room . . . . .	252 00
Concord Railroad corporation, freight . . . . .	8 15
S. German, washing floors . . . . .	132 90
E. P. Johnson & Co., coal . . . . .	465 70
L. B. Bodwell & Co., coal . . . . .	147 19
Rowell & Burns, coal . . . . .	130 75
P. C. Cheney Co., waste and paper . . . . .	10 10
C. A. Smith, duster and cuspa- dores . . . . .	9 87
C. H. Hodgman & Co., trucking . . . . .	5 00
Weston & Hill, carpeting, etc. . . . .	145 24

<b>Paid</b> J. A. Barker, freight on matting . . . . .	\$0 50
Barton & Co., matting . . . . .	89 89
Fred M. Dow . . . . .	3 00
Piper, Hawley, & Co., cotton, cambric, and crape . . . . .	36 88
R. D. Gay, cord, wall-paper, etc. . . . .	6 65
W. H. Vickery, keys . . . . .	3 75
B. W. Robinson & Co., mason-work . . . . .	10 25
George H. Stearns, brooms, matches, etc. . . . .	6 03
Concord Railroad corporation, freight . . . . .	6 40
J. S. Holt & Co., soap . . . . .	10 00
Belt and Leather Strap Co., gas-regulator . . . . .	30 00
A. M. Eastman, matches . . . . .	5 50
J. L. Wentworth, cleaning carpet . . . . .	1 75
Hutchinson Brothers, work on clock . . . . .	1 45
D. A. Simons, chairs . . . . .	9 00
J. J. Abbott, painting . . . . .	169 38
L. W. Sanborn, whitewashing . . . . .	8 25
A. H. Lowell, sash-weights . . . . .	1 71
C. H. Wood, painting sign . . . . .	3 75
U. S. & Canada Express . . . . .	1 25
James R. Carr, painting and glazing . . . . .	12 54
Joel Daniels, painting, etc. . . . .	16 90
Peter Milon, painting radiator . . . . .	4 00
J. N. Bruce . . . . .	4 00
Geo. E. Mores, cleaning carpet . . . . .	1 00

Paid Fellows & Goodwin, iron-work	\$4 10	
By balance to new account . . . .	137 34	
	<u>          </u>	\$5,252 78

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PRINTING AND STATIONERY.

		DR.
To appropriation . . . . .	\$1,200 00	
reserved fund . . . . .	160 52	
	<u>          </u>	\$1,360 52

		CR.
Paid John B. Clarke . . . . .	\$899 12	
F. H. Challis & Co. . . . .	31 00	
H. H. Everett . . . . .	33 00	
Challis & Eastman . . . . .	5 50	
Livingston & Kimball . . . . .	65 63	
Union Publishing Co. . . . .	202 25	
Thomas W. Lane . . . . .	3 75	
Temple & Farrington . . . . .	68 15	
Manchester post-office . . . . .	46 12	
N. P. Kidder, pens . . . . .	6 00	
	<u>          </u>	\$1,360 52

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WATER-WORKS.

		DR.
To balance from old account . . . . .	\$23,304 00	
C. K. Walker, water rent . . . . .	60,215 62	
	<u>          </u>	\$83,519 62

By interest, amount transferred .	\$38,000	00
contingent expenses, amount transferred . . . . .	1	00
<b>Paid</b> labor of men and teams . . . . .	6,857	63
Chas. K. Walker, superintendent . . . . .	1,279	78
Arthur E. Stearns, clerk . . . . .	1,000	00
C. C. Cole, superintendent at pumping station . . . . .	600	00
J. B. Varick, hardware . . . . .	159	92
Wm. C. Rogers, hardware . . . . .	1	50
Daniels & Co., hardware . . . . .	36	70
A. H. Lowell, service boxes, etc. . . . .	365	00
A. B. Webster, blacksmithing . . . . .	13	40
Derry & Co., blacksmithing . . . . .	2	10
S. C. Forsaith & Co., blacksmithing . . . . .	2	75
George R. Vance & Co., iron pails . . . . .	15	00
E. P. Johnson & Co., coal . . . . .	210	54
Thos. A. Lane, plumbing, etc. . . . .	70	58
L. B. Bodwell & Co., coal . . . . .	35	77
Hutchinson Bros., blacksmithing, etc. . . . .	94	34
J. J. Abbott, paint . . . . .	4	95
J. Stickney, rubber mitts . . . . .	4	00
J. Stickney, rubber mat, etc. . . . .	7	33
J. S. Kidder & Co., cement . . . . .	33	60
Drake & Carpenter, cement . . . . .	7	40
Pettee & Whittle, cement . . . . .	51	38
Manchester Locomotive-works, sleeves, castings, etc. . . . .	339	34
D. F. Cressey, blacksmithing . . . . .	12	25

<b>Paid Concord Railroad corporation,</b>	
freight . . . . .	\$1,311 22
J. W. Kimball, wood . . . .	65 25
James Brothers, teams . . . .	14 50
E. T. James, teams . . . . .	10 50
J. A. Brown, team . . . . .	5 00
C. H. Hodgman & Co., team . . .	1 00
Geo. H. Stearns, oil, etc. . . .	8 64
John Barnes, blacksmithing . .	8 45
Fletcher & Royce, lunch, and use of steamboat at Massa- besic lake . . . . .	30 00
D. J. Mahoney, lumber . . . . .	139 22
J. Hodge, lumber . . . . .	20 39
Larose & Marchand, lumber and labor . . . . .	49 00
P. C. Cheney Co., paper . . . . .	32 40
Hugh B. Cochran, land . . . . .	1,150 00
Pike & Heald, hardware . . . .	16 87
Joseph Goodwin, lathing and plastering . . . . .	26 00
Temple & Farrington, station- ery, etc. . . . .	44 65
Géo. C. Hoitt, blank-books . . . .	4 00
J. B. Clarke, printing . . . . .	126 75
W. E. Moore, printing . . . . .	8 00
D. B. Varney, brass-work . . . .	1 95
J. M. & D. A. Parker, wood . . .	59 50
J. B. Sawyer, engineering . . . .	55 50
William Connelly, damage to cellar . . . . .	4 00
Sawyer & Woodbury, damage to cellar . . . . .	20 00
Geo. G. Griffin, land in Auburn	5,000 00

Paid Joseph E. Bennett, auditing accounts . . . . .	\$57 00
Charles W. Farmer, oil, salt, etc. . . . .	2 20
H. W. Hawkes, bands, cocks, etc. . . . .	183 00
Jarechi. Hayes. & Co., stop- cocks . . . . .	85 52
George Woodman & Co., pipe, nipples, etc. . . . .	759 85
Leonard & Ellis, machine oil	74 26
H. J. Devitt, torch-holders, etc.	29 80
Ludlow Valve Manufacturing Co., hub-gates, etc. . . . .	642 96
Union Water-Meter Co., wa- ter-meters . . . . .	1,548 92
R. D. Wood & C., cast-iron pipe . . . . .	11,444 31
Mowry & Phillips, pig-lead . .	1,120 05
Boston Lead Manufacturing Co., lead pipe, etc. . . . .	58 39
Richard Pattee, hydrants . . .	660 00
Boston Machine Co., bell-gates	266 50
Sewall & Day, manilla, etc. . .	69 80
Walworth Manufacturing Co.	82 48
Samuel May & Co. . . . .	2 84
town of Auburn, taxes . . . . .	6 91
Ward Hurley, corp. stops . . .	22 50
Henry N. Stone, pump, hose, etc. . . . .	79 00
H. B. Putnam, <i>ex-officio</i> water commissioner . . . . .	21 00
J. A. Weston, water commis- sioner . . . . .	95 00



Paid A. C. Wallace, water commissioner . . . . .	\$39 00
Alpheus Gay, water commissioner . . . . .	39 00
Wm. P. Newell, water commissioner . . . . .	21 00
E. H. Hobbs, water commissioner . . . . .	12 00
E. T. James, water commissioner . . . . .	21 00
C. N. & M. E. Harvey, lumber	1 76
L. B. Bodwell & Co., coal . . . . .	6 40
A. B. Emerson, teaming derrick . . . . .	2 50
George Whitford, wood . . . . .	5 50
A. M. Eastman, oil, wicks, etc.	5 25
J. L. Fogg, land . . . . .	640 00
Jeremiah Cronin, damage to cellar . . . . .	10 00
S. Brown . . . . .	21 00
B. Bresnehan . . . . .	4 00
By balance on hand . . . . .	\$7,960 14
	<u>          </u> \$83,519 62

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#### HYDRANT SERVICE.

DR.

To appropriation . . . . .	\$20,000 00
	<u>          </u> \$20,000 00

CR.

Paid Manchester Water-works, water	\$19,320 00
By balance on hand . . . . .	680 00
	<u>          </u> \$20,000 00

## RESERVOIRS.

		DR.
To balance on old account . . .	\$50 00	
	<hr/>	\$50 00
CR.		
Paid A. H. Lowell, reservoir cover, etc. . . . .	\$4 90	
By balance to new account . . .	45 10	
	<hr/>	\$50 00

## REPAIRS OF BUILDINGS.

		DR.
To appropriation . . . . .	\$3,500 00	
reserved fund . . . . .	1,488 38	
	<hr/>	\$4,988 38
CR.		
Paid A. C. Wallace, lumber . . .	\$55 97	
J. Hodge, lumber . . . . .	85 68	
A. J. Sawyer, lumber . . . . .	30 44	
W. W. Hubbard, lumber . . . . .	27 92	
George H. Dudley, carpenter- work . . . . .	251 13	
George Holbrook, carpenter- work . . . . .	57 45	
J. H. Maynard, carpenter- work . . . . .	229 48	
N. R. Bixby, carpenter-work	169 25	
John Carlton, carpenter-work	1,128 81	
Walter Neal, carpenter-work	7 13	
S. G. Folsom, carpenter-work	12 00	
P. Brown, carpenter-work . . .	34 75	

Paid T. Berry, carpenter-work . . . . .	\$11 25
James S. Bacheler, plumbing, etc. . . . .	140 00
James S. Bacheler, boiler, etc., at engine-house . . . . .	1,312 45
Thomas A. Lane, plumbing . . . . .	48 33
W. H. Vickery, keys . . . . .	40
James R. Carr, painting . . . . .	175 74
J. J. Abbott " . . . . .	73 12
C. R. Colley & Co., " . . . . .	9 79
J. P. Finn & Co., " . . . . .	43 65
Daniels & Co., hardware . . . . .	12 83
J. B. Varick, hardware . . . . .	30 50
Wm. C. Rogers, hardware . . . . .	2 40
P. W. Dickey & Co., iron-work . . . . .	3 35
Temple & Farrington, wall- paper, etc. . . . .	48 7
B. W. Robinson & Co., mason- work . . . . .	460 74
Bennett & Lord, mason-work . . . . .	2 80
Pike & Heald, plumbing . . . . .	44 72
B. F. Fogg & Co., plumbing . . . . .	8 95
J. C. Young, roofing . . . . .	270 34
Drake & Carpenter, cement . . . . .	21 04
D. H. Morgan, setting glass, etc. . . . .	1 96
Eli Richards, plastering . . . . .	1 00
Amoskeag S. F. E. Co. No. 1, furniture . . . . .	25 00
Pennacook Hose, No. 1, fur- niture . . . . .	25 00
N. S. Bean S. F. E. Co. No. 4, furniture . . . . .	25 00
A. N. Clapp, hardware . . . . .	4 55

Paid Henry Fisk, plumbing . . . . .	€13 41	
D. A. Simons, wall paper . . . . .	6 80	
R. D. Gay, wall-paper . . . . .	4 68	
T. W. Challis, expenses to Boston for committee . . . . .	3 50	
J. A. Sanborn & Co., iron-work . . . . .	1 50	
J. T. Fanning, professional services . . . . .	20 00	
Wm. M. Butterfield, professional services . . . . .	45 00	
	<u>          </u>	€4,988 38

## MILITIA.

		DR.
To appropriation . . . . .	€600 00	
	<u>          </u>	€600 00
		CR.
Paid Straw Rifles . . . . .	€100 00	
Sheridan Guards . . . . .	100 00	
Head Guards . . . . .	100 00	
First N. H. Battery . . . . .	100 00	
Manchester War Veterans . . . . .	100 00	
By balance on hand . . . . .	100 00	
	<u>          </u>	€600 00

## BRIDGE-STREET BRIDGES.

		DR.
To balance from old account . . . . .	€20,000 00	
	<u>          </u>	€20,000 00

		CR.
Paid Corrugated Metal Co. . . . .	\$20,000 00	
	<u>                    </u>	\$20,000 00

### PAYMENT OF FUNDED DEBT.

		DR.
To appropriation . . . . .	\$18,000 00	
	<u>                    </u>	\$18,000 00

		CR.
Paid Suncook Valley R. R. bonds . . . . .	\$8,400 00	
sewer bonds . . . . .	8,000 00	
By balance to new account . . . . .	1,600 00	
	<u>                    </u>	\$18,000 00

### ABATEMENT OF TAXES.

		DR.
To appropriation . . . . .	\$2,000 00	
error . . . . .	2 48	
reserved fund . . . . .	759 74	
	<u>                    </u>	\$2,762 22

		CR.
Paid sundry persons . . . . .	\$2,762 22	
	<u>                    </u>	\$2,762 22

### DISCOUNT ON TAXES.

		DR.
To appropriation . . . . .	\$6,000 00	
reserved fund . . . . .	1,399 15	
	<u>                    </u>	\$7,399 15

CR.

Paid Geo. E. Morrill, collector	. \$7,399 15	
	<u>          </u>	\$7,399 15

## STATE TAX.

To appropriation	. . . \$41,000 00	
balance account	. . .       60 00	
	<u>          </u>	\$41,060 00

CR.

Paid S. A. Carter, state treasurer	. \$41,060 00	
	<u>          </u>	\$41,060 00

## COUNTY TAX.

DR.

To appropriation	. . . \$39,000 00	
	<u>          </u>	\$39,000 00

CR.

Paid E. P. Richardson, county		
treasurer	. . . \$31,323 37	
By balance on hand	. . .   7,676 63	
	<u>          </u>	\$39,000 00

## OUTSTANDING TAXES.

List for 1871	. . . \$6,260 70
1872	. . .   2,811 93
1873	. . .   4,215 84
1874	. . .   4,246 62
1875	. . .   4,120 16

List for 1876	.	.	.	.	\$3,026	17
1877	.	.	.	.	2,929	37
1878	.	.	.	.	3,149	27
1879	.	.	.	.	1,011	00
1880	.	.	.	.	1,396	83
					<u>          </u>	\$33,167 89

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TAXES FOR 1881.

						DR.
To resident taxes assessed	.	.	.	.	\$316,462	26
non-resident taxes assessed	.	.	.	.	1,376	45
					<u>          </u>	\$317,838 71
						CR.
By collections	.	.	.	.	\$291,587	46
abatements	.	.	.	.	1,111	43
discounts	.	.	.	.	7,399	15
balance outstanding	.	.	.	.	17,740	67
					<u>          </u>	\$317,838 71

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RESERVED FUND.

						DR.
To appropriation	.	.	.	.	\$10,000	00
show licenses	.	.	.	.	578	00
rent of tenements	.	.	.	.	260	50
south city scales	.	.	.	.	178	81
rent of ward-room	.	.	.	.	24	00
rent of land	.	.	.	.	1	00
costs non-resident taxes	.	.	.	.	42	00
aqueduct water	.	.	.	.	15	00
dog licenses	.	.	.	.	\$542	25
sinking fund, amount transferred	.	.	.	.	20,000	00
incidental expenses	.	.	.	.	2,616	83
					<u>          </u>	\$34,258 39

By Women's Aid and Relief hospital	\$400	00
paupers off the farm . . . . .	278	69
city farm . . . . .	1,868	13
city teams . . . . .	2,078	41
Highway District No. 2 . . . . .	1,155	20
.. " " 3 . . . . .	259	40
" " " 4 . . . . .	7	77
" " " 5 . . . . .	85	83
" " " 6 . . . . .	589	46
" " " 9 . . . . .	40	38
" " " 10 . . . . .	251	33
" " " 11 . . . . .	269	99
" " " 13 . . . . .	54	81
new highways . . . . .	1,752	24
land damage . . . . .	420	76
lighting streets . . . . .	297	93
paving streets . . . . .	4,303	25
Amoskeag Falls bridge . . . . .	1,261	34
sewers and drains . . . . .	3,960	41
commons . . . . .	192	30
Valley Cemetery . . . . .	570	96
fire department . . . . .	2,042	77
city hall . . . . .	2,758	74
printing and stationery . . . . .	160	52
repairs of buildings . . . . .	1,488	38
fire-alarm telegraph . . . . .	49	48
abatement of taxes . . . . .	759	74
discount on taxes . . . . .	1,399	15
grading for concrete . . . . .	\$903	97
macadamizing . . . . .	534	30
Bridge-street sewer . . . . .	3,547	57
balance on hand . . . . .	915	18

————— \$34,258 39



## VALUATION, TAXES, ETC.

Year.	Valuation.	Taxes.	No. Polls	Poll-Tax.	Val. of Poll.
1838 . .	\$555,270	\$2,235 49	244	\$1 66	\$300
1839 . .	604,963	3,029 84	427	2 14	300
1840 . .	946,200	3,986 56	772	2 20	300
1841 . .	1,229,054	9,563 74	892	3 49	300
1842 . .	1,430,524	12,952 44	1,053	2 76	300
1843 . .	1,598,826	13,764 32	1,053	2 60	300
1844 . .	1,873,286	13,584 72	1,053	2 25	300
1845 . .	2,544,780	19,246 27	1,561	2 30	300
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 08	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 . .	10,050,920	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 . .	17,943,398	316,462 26	7,574	1 76	100

## CITY DEBT.

Date of Notes.	To Whom Payable.	When Payable.	Principal.
July 1, 1862	City Bonds,	July 1, 1882	22,500 00
Aug. 1, 1869	" "	Aug. 1, 1882	1,500 00
July 1, 1876	Sewer Bonds,	July 1, 1883	8,000 00
Aug. 1, 1869	City Bonds,	Aug. 1, 1883	5,000 00
Aug. 1, 1869	" "	Aug. 1, 1884	1,500 00
April 1, 1864	" "	April 1, 1884	70,000 00
April 1, 1865	" "	April 1, 1885	10,000 00
July 1, 1876	Sewer Bonds.	July 1, 1885	8,000 00
Aug. 1, 1869	City Bonds,	Aug. 1, 1885	1,500 00
Aug. 1, 1869	" "	Aug. 1, 1886	5,000 00
Aug. 1, 1869	" "	Aug. 1, 1887	3,500 00
Jan. 1, 1872	Water Bonds,	Jan. 1, 1887	100,000 00
Jan. 1, 1863	City Bonds,	Jan. 1, 1888	35,000 00
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

## FUNDED DEBT.

Amount of funded debt, Jan. 1,		
1881 . . . . .	\$909,500	00
Added during year, bridge bonds	60,000	00
	<hr/>	\$969,500 00
Paid during the year . . . .		16,400 00
		<hr/>
Amount of funded debt Jan. 1,		
1882 . . . . .	\$953,100	00
Interest due, estimated . . . .	20,000	00
Bills outstanding . . . . .	31,312	63
		<hr/>
Total indebtedness, Jan. 1, 1882 .	\$1,004,412	63
Cash in treasury, Jan. 1, 1882 .	\$38,588	81
Notes due the city . . . . .	220	78
Interest on the same . . . . .	52	22
	<hr/>	\$38,861 81
		<hr/>
Net indebtedness, Jan. 1, 1882 .	965,550	82
Net indebtedness, Jan. 1, 1881 .	\$982,772	96
		<hr/>
Decrease of net indebtedness dur-		
ing the year . . . . .	\$17,222	14

## CITY PROPERTY.

City-Library building . . . . .	\$30,000 00
Permanent inclosure of commons . . . . .	19,200 00
City Hall and lot . . . . .	60,000 00
City Farm and permanent improvements . . . . .	26,000 00
Stock, tools, furniture, and provisions at city farm . . . . .	6,517 19
Engines, hose, and apparatus . . . . .	52,566 50
Engine-house, stable, and land, Vine street . . . . .	41,000 00
Hose-house and lot, Maple street . . . . .	2,500 00
Hose-house and lot, Nashua street . . . . .	500 00
Reservoirs . . . . .	10,000 00
Houses, tombs, and new cemetery . . . . .	5,000 00
Court-house and lot . . . . .	51,000 00
Common sewers . . . . .	180,000 00
Safes, furniture, and fixtures at city hall . . . . .	3,000 00
Street lanterns, posts and pipes . . . . .	5,300 00
Water-works . . . . .	769,926 38
Horses, carts, plows, and tools for streets . . . . .	5,000 00
Ward-room and lot, Manchester street . . . . .	3,000 00
Ward-room and lot, Park street . . . . .	600 00
Engine-house and lot, ward eight . . . . .	2,300 00
Water-pipe, wagons, and apparatus for water- ing streets . . . . .	2,500 00
Stock in Suncook Valley Railroad . . . . .	50,000 00
Lot, Lowell street . . . . .	1,500 00
Gravel lot, Belmont street . . . . .	1,200 00
Gravel lot, ward eight (one-half acre) . . . . .	50 00
Gravel lot, Bakersville (one acre) . . . . .	100 00
Gravel lot, District No. 8 . . . . .	150 00
Fire-alarm telegraph, bell-tower, and bell . . . . .	20,000 00
Valley Cemetery . . . . .	6,000 00
	<hr/>
	\$1,354,910 07

## SCHOOL PROPERTY.

Blodget-street school-house and lot	. \$3,000 00	
Movable furniture, maps, charts, etc.	. . . . . 150 00	\$3,150 00
Bridge-street house and lot	. . . . .	500 00
Old High school-house and lot	. 6,500 00	
Movable furniture, maps, etc.	. 200 00	6,700 00
New High school-house	. 45,000 00	
Movable furniture, maps, charts, books, and apparatus	. . . . . 2,000 00	47,000 00
Wilson-Hill house and lot	. . . . . 3,300 00	
Movable furniture, maps, etc.	. 125 00	3,425 00
Merrimack-street house and lot	. 15,000 00	
Movable furniture, maps, etc.	. 350 00	15,350 00
Manchester-street house and lot	. 8,000 00	
Movable furniture, maps, etc.	. 300 00	8,300 00
Park-street house and lot	. . . . . 8,000 00	
Movable furniture, maps, etc.	. 400 00	8,400 00
Franklin-street house and lot	. 18,000 00	
Movable furniture, maps, etc.	. 400 00	18,400 00
Spring-street house and lot	. 14,000 00	
Movable furniture, maps, etc.	. 400 00	14,400 00
Stark house and lot	. . . . . 3,000 00	
Movable furniture, maps, etc.	. 200 00	3,200 00
Bakersville house and lot	. . . . . 3,500 00	
Movable furniture, maps, etc.	. 75 00	3,575 00
Goffe's-Falls house and lot	. . . . . 3,600 00	
Movable furniture, maps, etc.	. 100 00	3,700 00
House and lot near Harvey's	. . . . . 2,500 00	
Movable furniture, maps, etc.	. 50 00	2,550 00
House and lot near Clough's mill	. . . . . 600 00	
Movable furniture, maps, etc.	. 50 00	650 00
House and lot corner Beech and Spruce streets	. . . . .	6,000 00

Hallsville house and lot . . .	. \$3,500 00	
Movable furniture, maps, etc.	. 75 00	\$3,575 00
Massabesic house and lot . . .	. 1,400 00	
Movable furniture, maps, etc.	. 40 00	1,440 00
Mosquito-Pond house and lot . . .	. 1,000 00	
Movable furniture, maps, etc.	. 50 00	1,050 00
Center-street house and lot . . .	. 5,000 00	
Movable furniture, maps, etc.	. 125 00	5,125 00
Ash-street house and lot . . .	. 58,000 00	
Movable furniture, maps, etc.	. 400 00	58,400 00
Lincoln-street house and lot . . .	. 50,000 00	
Movable furniture, maps, etc.	. 400 00	50,400 00
South house and lot, 'Squog . . .	. 2,800 00	
Movable furniture, maps, etc.	. 60 00	2,860 00
Amoskeag house and lot . . .	. 3,700 00	
Movable furniture, maps, etc.	. 125 00	3,825 00
Main-street house and lot . . .	. 12,000 00	
Movable furniture, maps, etc.	. 100 00	12,100 00
		<hr/>
Amount of school property . . .		\$284,075 00
Amount of city property . . .		1,354,910 07
		<hr/>
Total property . . . . .		\$1,638,985 07

## APPROPRIATIONS FOR 1882.

Interest . . . . .	\$20,000 00
Interest on land . . . . .	3,000 00
Paupers off the farm . . . . .	3,500 00
City farm . . . . .	3,000 00
Scavenger teams . . . . .	2,000 00
Highway district No. 1 . . . . .	300 00
"    "    "    2 . . . . .	10,000 00
"    "    "    3 . . . . .	600 00
"    "    "    4 . . . . .	300 00
"    "    "    5 . . . . .	400 00
"    "    "    6 . . . . .	400 00
"    "    "    7 . . . . .	650 00
"    "    "    8 . . . . .	550 00
"    "    "    9 . . . . .	450 00
"    "    "   10 . . . . .	1,000 00
"    "    "   11 . . . . .	700 00
"    "    "   12 . . . . .	250 00
"    "    "   13 . . . . .	150 00
New highways . . . . .	2,000 00
Damage for land taken for highways . . . . .	1,000 00
Watering streets . . . . .	2,000 00
Lighting streets . . . . .	5,500 00
Paving streets . . . . .	2,000 00
Macadamizing streets . . . . .	2,500 00
Grading for concrete . . . . .	3,000 00
Sewers and drains . . . . .	15,000 00
Bridges . . . . .	1,000 00
Commons . . . . .	1,500 00
Incidental expenses . . . . .	20,000 00
Pine Grove cemetery . . . . .	1,500 00
Valley cemetery . . . . .	1,000 00
Fire department . . . . .	15,000 00
Fire-alarm telegraph . . . . .	1,000 00

Police department . . . . .	\$12,000 00
Hydrant service . . . . .	20,000 00
Printing and stationery . . . . .	1,500 00
Repairs of buildings . . . . .	1,500 00
City library . . . . .	3,000 00
Militia . . . . .	800 00
Payment of funded debt . . . . .	24,000 00
Abatement of taxes . . . . .	2,500 00
Discount on taxes . . . . .	6,500 00
State tax . . . . .	41,060 00
County tax . . . . .	32,000 00
City officers' salaries . . . . .	12,000 00
Decoration of soldiers' graves . . . . .	200 00
Firemen's parade . . . . .	300 00
Annex to city library . . . . .	1,500 00
New school-house, Webster street . . . . .	2,000 00
New school-house, Bakersville . . . . .	5,000 00
Reserved fund . . . . .	10,000 00
Repairs on school-houses . . . . .	3,000 00
Fuel . . . . .	3,000 00
Furniture and supplies . . . . .	500 00
Books and stationery . . . . .	500 00
Printing and advertising . . . . .	500 00
Contingent expenses . . . . .	500 00
Care of rooms . . . . .	2,600 00
Evening schools . . . . .	1,000 00
Teachers' salaries . . . . .	39,000 00
Truant officer . . . . .	300 00
Battery building and ward-room, ward four	8,000 00



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