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PUBLIC DOCUMENT.



CITY OF MANCHESTER

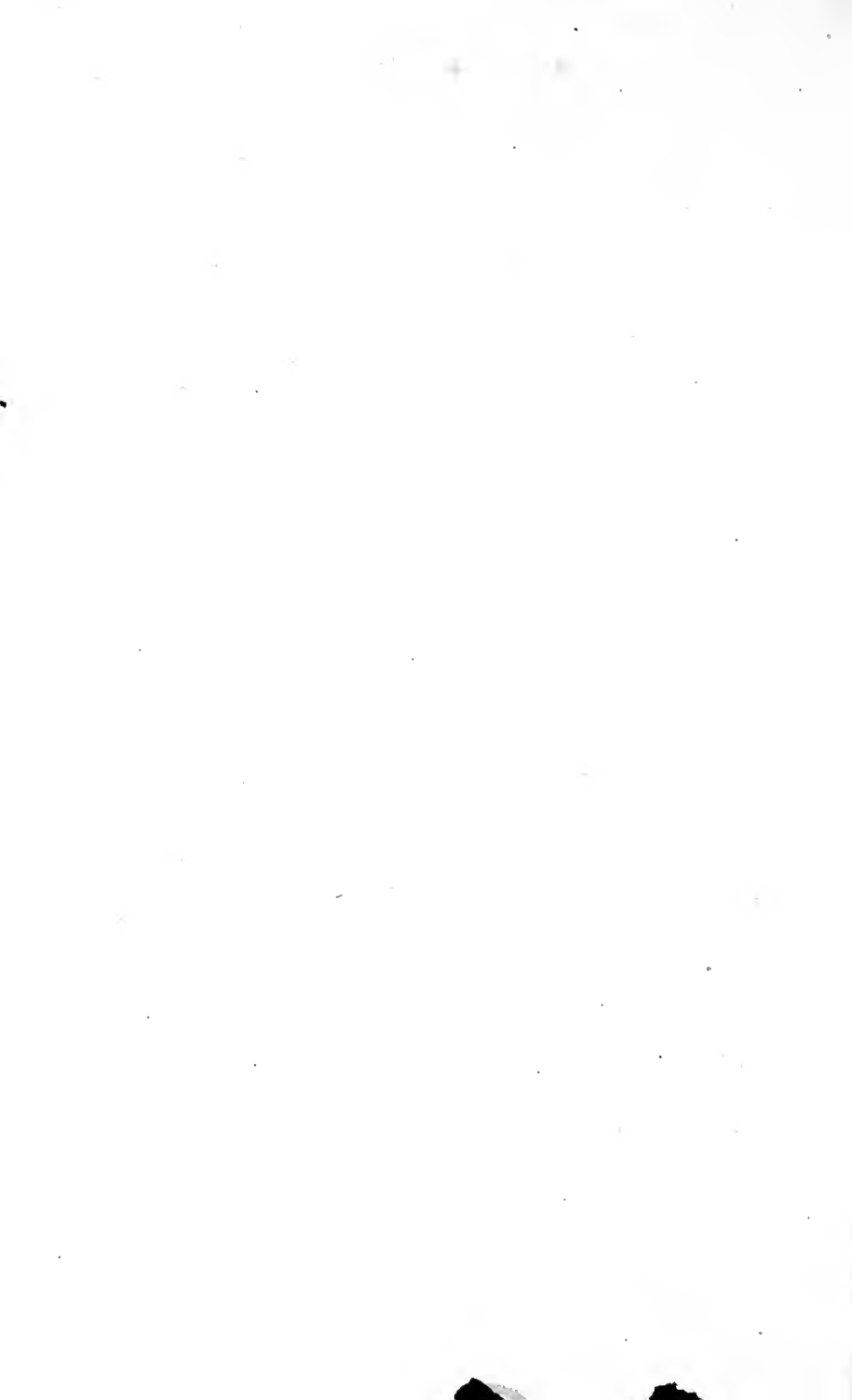


ANNUAL REPORTS

— FOR —

THE YEAR 1883.

NEW HAMPSHIRE  
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THIRTY-EIGHTH ANNUAL REPORT  
OF THE  
RECEIPTS AND EXPENDITURES  
OF THE  
CITY OF MANCHESTER,  
FOR THE  
Fiscal Year Ending December 31, 1883,  
TOGETHER WITH  
OTHER ANNUAL REPORTS AND PAPERS RELATING  
TO THE AFFAIRS OF THE CITY.



MANCHESTER, N. H.:  
JOHN B. CLARKE, PRINTER.  
1884.

N  
352.07  
M268  
1883

## CITY OF MANCHESTER.

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IN BOARD OF COMMON COUNCIL.

AN ORDER to print the Thirty-Eighth 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-Eighth 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. February 5, 1884.

Passed.

J. A. MCCRILLIS, *President.*

IN BOARD OF MAYOR AND ALDERMEN. February 5, 1884.

Passed in concurrence.

H. B. PUTNAM, *Mayor.*

MANCHESTER  
CITY GOVERNMENT,  
1883.

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MAYOR.

HON. HORACE B. PUTNAM.

---

CITY CLERK.

NATHAN P. KIDDER.

---

PRESIDENT OF COMMON COUNCIL.

JOHN A. McCRILLIS.

---

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. — Charles H. G. Foss.

Ward 2. — John F. Clough.

Ward 3. — Samuel Thompson.

Ward 4. — Edward P. Johnson.

Ward 5. — Leonard P. Reynolds.

Ward 6. — Thomas L. Thorpe.

Ward 7. — Horace P. Simpson.

Ward 8. — Frank A. Cadwell.

## MEMBERS OF COMMON COUNCIL.

## WARD 1.

Henry S. Perry.  
George W. Cheney.  
Stillman P. Cannon.

## WARD 2.

George M. True.  
Henry W. Fisher.  
Charles E. Stearns.

## WARD 3.

Alexander H. Olzendam.  
Abraham G. Grenier.  
Eugene S. Whitney.

## WARD 4.

Stephen B. Stearns.  
John A. McCrillis.  
Alpheus Bodwell.

## WARD 5.

John Bryson, Jr.  
Simon McCarthy.  
John Griffin.

## WARD 6.

Albert A. Ainsworth.  
George W. Prescott.  
Henry A. Horton.

## WARD 7.

Samuel Lunt.  
Henry W. Randall.  
Abner J. Sanborn.

## WARD 8.

Edward H. Doherty.  
Ferdinand Riedel.  
Frank O. Clement.

## JOINT STANDING COMMITTEES.

*On Finance.* — The Mayor, and Alderman Thorpe ; Messrs. S. B. Stearns, Lunt, and Ainsworth.

*On Accounts.* — Aldermen Thompson and Cadwell ; Messrs. Olzendam, Cheney, and S. B. Stearns.

*On Claims.* — Aldermen Foss and Clough ; Messrs. True, Randall, and Prescott.

*On Streets.* — Aldermen Simpson and Thorpe ; Messrs. Sanborn, Olzendam, and Fisher.

*On Sewers and Drains.* — Aldermen Thorpe and Simpson ; Messrs. Fisher, Olzendam, and Sanborn.

*On Lighting Streets.* — Aldermen Clough and Cadwell ; Messrs. Whitney, McCarthy, and Riedel.

*On Lands and Buildings.* — Aldermen Johnson and Simpson ; Messrs. Perry, Randall, and Bryson.

*On Fire Department.* — Aldermen Foss and Thompson ; Messrs. Cheney, Horton, and Whitney.

*On Commons and Cemeteries.* — Aldermen Clough and Foss ; Messrs. Ainsworth, Cannon, and Perry.

*On Public Instruction.* — Aldermen Cadwell and Johnson ; Messrs. Prescott, Grenier, and True.

*On Water-Works.* — Aldermen Johnson and Thorpe ; Messrs. Charles E. Stearns, Doherty, and Bodwell.

*On City Farm.* — Aldermen Clough and Johnson ; Messrs. Lunt, Cannon, and Horton.

*On House of Correction.* — Aldermen Reynolds and Cadwell ; Messrs. Prescott, Doherty, and Griffin.

*On Military Affairs.* — Aldermen Thompson and Clough ; Messrs. Bodwell, Riedel, and Griffin.

STANDING COMMITTEES IN BOARD OF MAYOR AND ALDERMEN.

*On Enrollment.* — Aldermen Foss and Cadwell.

*On Bills on Second Reading.* — Aldermen Simpson and Thompson.

*On Market.* — Aldermen Thompson and Reynolds.

*On Marshal's Accounts.* — Aldermen Clough and Reynolds.

*On Licenses.* — Aldermen Cadwell and Johnson.

*On Setting Trees.* — Aldermen Thorpe and Reynolds.

*On Special Police.* — Aldermen Simpson and Clough.



## STANDING COMMITTEES IN BOARD OF COMMON COUNCIL.

*On Election Returns.*—Messrs. Charles E. Stearns, Griffin, and Clement.

*On Bills on Second Reading.*—Messrs. Grenier, Clement, and McCarthy.

*On Enrollment.*—Messrs. Horton, Bryson, and Charles E. Stearns.

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 POLICE DEPARTMENT.

*Judge of Police Court.*

Nathan P. Hunt.

*Assistant Justice of Police Court.*

Isaac L. Heath.

*Clerk.*

John C. Bickford.

*City Marshal.*

Melvin J. Jenkins.

*Assistant Marshal.*

Eben Carr.

*Captain of the Night Watch.*

Edgar Farrar.

*Day Police.*

John C. Colburn.

Randall W. Bean.

Charles H. Reed.

*Night Watchmen.*

John F. Cassidy.	Ira P. Fellows.
James Bucklin.	Philip Reischer.
Thomas Frain.	Francis Bourrassau.
William H. B. Newhall.	Gideon Rochette.
Michael Marr.	Lafayette Tebbetts.
Hiram Stearns.	Charles S. Brown.
Jeremiah Murphy.	Henry Harmon.
James F. Dunn.	Leroy M. Streeter.
Michael Fox.	

*Constables.*

William A. Carpenter.	Joseph B. Maynard.
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## SCHOOL COMMITTEE.

Hon. Horace B. Putnam, *ex officio* Chairman.  
 Frank T. E. Richardson, *Clerk*.

## WARD 1.

Frank T. E. Richardson.  
 Perry H. Dow.

## WARD 2.

Benjamin C. Dean.  
 William C. Clarke.

## WARD 3.

Henry H. Huse.  
 Nathan P. Hunt.

## WARD 4.

John T. Fanning.  
 Samuel D. Lord.

## WARD 5.

Thomas F. Collins.  
 Charles A. O'Connor.

## WARD 6.

D. Milton Goodwin.\*  
 Jacob J. Abbott.

\*Elected to fill vacancy caused by resignation of Brackett B. Weeks.

## WARD 7.

George D. Towne.

Edwin F. Jones.

John A. McCrillis, *ex officio*.

## WARD 8.

Lewis E. Phelps.

Douglas Mitchell.

## SUPERINTENDENT OF PUBLIC INSTRUCTION.

William E. Buck.

## WATER COMMISSIONERS.

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

William P. Newell.

James A. Weston.

Eben T. James.

Alpheus Gay.

Andrew C. Wallace.

Edwin H. Hobbs.

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

## OVERSEERS OF THE POOR.

Hon. Horace B. Putnam, *ex-officio Chairman*.William H. Maxwell, *Clerk*.

William H. Maxwell.

John E. Stearns.

James Sutcliffe.

Horace Gordon.

Daniel Sheehan.

Robert Hall.\*

P. O. Woodman.†

Elbridge G. Woodman.

William Weber.

\* Died.

† Elected to fill vacancy.

## ASSESSORS.

George W. Weeks, *Chairman*.David O. Furnald, *Clerk*.

Charles H. Brown.	Patrick A. Devine.
Joseph H. Haynes.	John P. Moore.
David O. Furnald.	Henry W. Powell.
George W. Weeks.	Pius Brown.

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## INSPECTORS OF CHECK-LISTS.

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

Charles W. Warren.	Maurice Fitzgerald.
Joseph H. Haynes.	Isaac Whittemore.
David O. Furnald.	Solon D. Pollard.
Harrison D. Lord.	Charles C. Tinkham.

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## FIRE DEPARTMENT.

Thomas W. Lane, *Chief Engineer*.Benjamin C. Kendall, *Clerk*.*Assistant Engineers.*

Orrin E. Kimball.	Benjamin C. Kendall.
James F. Pherson.	Frank Hutchinson.*
A. C. Wallace.†	

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## BOARD OF HEALTH.

Melvin J. Jenkins.	Patrick A. Devine.
Lyman H. Lamprey.	

\* Resigned.

† Elected to fill vacancy.

## TRUSTEES OF THE CITY LIBRARY.

Nathan P. Hunt.	Isaac W. Smith.
William P. Newell.	Moody Currier.
Daniel Clark.	Lucien B. Clough.
Thomas L. Livermore.	
Hon. Horace B. Putnam, <i>ex officio</i> .	
John A. McCrillis, <i>ex officio</i> .	

## LIBRARIAN.

Mrs. M. J. Buncher.

## 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 E. Dodge.

Ward 4. — John M. Crawford.

Ward 5. — John F. Sullivan.

Ward 6. — George Holbrook.

Ward 7. — Timothy W. Challis.

Ward 8. — Charles K. Walker.

*Ward Clerks.*

Ward 1. — Abial W. Eastman.

Ward 2. — Harry E. Webster.

Ward 3. — Frank W. Garland.

Ward 4. — Waldo E. Gilmore.

Ward 5. — John F. Bohan.

Ward 6. — William H. Dixon.

Ward 7. — Charles A. Smith.

Ward 8. — Fred W. Ranno.

*Selectmen.*

## WARD 1.

George C. Kemp.  
George W. Bacon.  
Henry S. Perry.

## WARD 2.

George H. Colby.  
James R. Carr.  
Joseph P. Fellows.

## WARD 3.

David Thayer.  
Benjamin F. Garland.  
Emerson Moulton.

## WARD 4.

Peleg D. Harrison.  
Charles F. Garland.  
Charles H. Uhlig.

## WARD 5.

John J. Sheehan.  
Daniel J. Ahern.  
Patrick Kelley.

## WARD 6.

Edwin N. Baker.  
George E. Glines.  
George M. Bean.

## WARD 7.

Elbridge G. Woodman.  
Oscar Perkins.  
Zara B. Sawyer.

## WARD 8.

Frank J. Smith.  
Walter S. Chamberlain.  
Herman Rittner.

REPORT  
OF THE  
BOARD OF WATER COMMISSIONERS.

## COMMISSIONERS FOR 1884.

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ALPHEUS GAY, *President*, term expires January 1, 1887.

JAMES A. WESTON, *Clerk*, term expires January 1, 1885.

HORACE B. PUTNAM, *Mayor*, term expires January 1, 1885.

WILLIAM P. NEWELL, term expires January 1, 1890.

EBEN T. JAMES, term expires January 1, 1886.

A. C. WALLACE, term expires January 1, 1888.

E. H. HOBBS, term expires January 1, 1889.

CHARLES K. WALKER, *Superintendent*.

ARTHUR E. STEARNS, *Registrar*.



REPORT  
OF THE  
BOARD OF WATER COMMISSIONERS.

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

GENTLEMEN, — The Board of Water Commissioners herewith present their twelfth annual report, covering the annual report of the superintendent to this board, which contains in detail a statement of the operations of this department of the city service for the year ending December 31, 1883.

A brief review of the workings of this enterprise may be of interest at this time, about ten years having elapsed since the substantial completion of the works. With this view, the following table has been prepared, exhibiting the annual gross income, the ordinary expense of operating and maintaining the works, and the net receipts; also the number of gallons of water pumped for the same periods, and the number of service pipes at the close of each year:

YEAR.	No. gallons pumped.	No. service pipes.	Gross income.	Expenses.	Net income.
1874.....	194,000,934	625	\$17,233.54	\$5,252.94	\$11,980.60
1875.....	424,000,247	990	27,119.15	7,902.70	19,216.45
1876.....	445,195,120	1,239	38,879.47	7,038.05	31,841.42
1877.....	470,291,588	1,429	43,823.30	6,793.53	37,029.77
1878.....	470,790,810	1,571	48,874.26	7,740.21	41,134.05
1879.....	455,094,062	1,676	53,143.17	11,596.25	41,546.92
1880.....	432,381,726	1,807	57,655.25	10,282.06	47,373.19
1881.....	430,889,792	1,994	60,215.62	9,434.09	50,781.53
1882.....	442,938,889	2,127	67,630.13	11,505.97	56,124.16
1883.....	442,116,612	2,294	73,458.20	9,938.92	63,519.28

In explanation of the disproportion of the number of gallons pumped in 1874 and 1875 as compared with other years, it may be said that for a portion of the former year the water was supplied from the reservoir of the Amoskeag Manufacturing Company, and during the first nine months of the latter year the reverse was true, the Amoskeag Manufacturing Company having been supplied by the city.

It may also be stated that for the first few years the filling of the reservoir and pipes, the frequent trials and experiments with fire hydrants and otherwise, together with the leaky condition of some of the pipes, required a large amount of water. Then, too, there were few meters, and the luxury of running water under a head prompted takers to make a very free use of their hydrants and faucets until the novelty had worn off.

It is believed that the minimum has now been reached in the amount of water required for all purposes; for, by allowing the population within reach of the distribution to be thirty-five thousand, it appears that only about thirty-five gallons, or a little more than a barrel of water, per day, is furnished to each inhabitant on the average. This is an

unusually small amount as compared with the consumption in other cities, and is the least amount that can reasonably be expected here. It may, therefore, be taken for granted that the normal condition of the works has been attained as regards the amount of water consumed in proportion to the inhabitants, as well as in other respects, and, barring accidents, that the future will be a repetition of the experience of the past few years.

Most of the distribution pipes were kept in repair by the contractor until 1879. This accounts for the largely increased expense after that time.

As a whole, the foregoing exhibit must prove a source of gratification to the early advocates of measures "to introduce an abundant supply of pure water into the city of Manchester." The wisdom of the selection of the source of supply is no longer questioned, and no exception can justly be taken, either to the quantity or quality of the Massabesic water, nor to the general plan adopted by which it was introduced; while the result, in a financial aspect, is far more favorable than the most ardent friends of the undertaking dared hope.

This "great blessing" long ago ceased to be a charge upon the tax-payers, and is most appreciated by those who are familiar with the rare advantages supplied by nature, which have been utilized so successfully for the benefit of present and future generations. It remains for those in charge of this valuable property to maintain and protect it with vigilant care, and to guard, as far as may be, against accidents that would deprive the citizens of its use. To this end your commissioners believe the time has arrived when provision should be made looking to the construction of a second main pipe, first laying a pipe from Elm to Massabesic street through Valley street, and later on to extend it to the reservoir, and finally to the pumping station.

Many applications are annually made for the extension of distribution pipes. To meet these cases the reasonable rule adopted by the managers of most other water-works has been applied here ; that is, pipes are extended wherever the income from water rates will be equal to six per cent on the cost of laying them. This action appears to have given general satisfaction. For further details as to the operations of the works, your commissioners desire to refer to the accompanying report of the superintendent.

Respectfully submitted.

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

January 1, 1884.

## SUPERINTENDENT'S REPORT.

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

GENTLEMEN, — In compliance with the ordinances of the city, the annual report of your Superintendent for the year ending December 31, 1883, is herewith respectfully submitted.

### MASSABESIC LAKE.

There has been an abundance of water in the lake the past year, notwithstanding there have been two dry seasons in succession. While other cities in New England have suffered for the want of water, Manchester has had a good supply of the very best quality.

If any further evidence were necessary, these dry seasons have made it conclusive that those in charge of the construction of the works made a wise choice when the Massabesic Lake was determined upon as the source of supply.

One piece of land bordering on the lake has been bought of Hidden Brown, of Auburn village, the past year, containing about three acres.

### DAM, CANAL, AND PENSTOCK.

No repairs have been required on the dam, canal, or penstock, during the year. A few loads of stone and earth have been put back of the wall, opposite the Gilman Clough place, and the fence just below the dam has been whitewashed.

## PUMPING STATION.

No repairs have been made on the pumps or the machinery connected therewith the past year. The water-wheel with the suspension glass bearing still runs both pumps, and has for five years past, without any repairs.

It is somewhat remarkable that machinery of this kind should run a whole year and pump 442,000,000 gallons without any repairs, but such is the fact.

Every thing about the works is in good order at the present time.

## RECORD OF PUMPING IN 1883.

MONTHS.	No. hours' work for both pumps.	Average stroke per minute.	Total No. strokes per month	Total No. gallons pumped in one month.	Daily average gallons pumped.
January .....	659 h. 30 m.	15.80	628,030	39,565,890	1,276,319
February .....	590 "	16.24	574,896	36,218,448	1,293,516
March.....	639 " 40 "	16.12	618,956	38,994,228	1,257,878
April.....	540 "	16.26	527,032	33,203,016	1,106,767
May... ..	553 " 42 "	16.27	530,744	33,436,872	1,078,609
June.....	606 "	16.18	588,242	37,059,246	1,268,641
July.. ..	633 " 40 "	16.38	623,088	39,249,504	1,266,113
August.....	693 " 20 "	16.05	667,776	42,069,888	1,357,093
September.....	665 " 20 "	15.30	611,072	38,497,536	1,283,251
October .....	595 "	15.15	539,238	33,971,994	1,095,878
November .....	575 " 30 "	14.94	516,284	32,525,892	1,084,196
December .. ..	640 " 10 "	15.42	592,446	37,324,098	1,204,003
Totals and average..	7391 " 52 "	15.84	7,017,804	442,116,612	1,211,278

## RESERVOIR.

The only work required about the reservoir has been done at the gate-house, and this was a trivial matter of putting on a storm-door and repairing the old one.

## SUPPLY AND FORCE MAIN.

The supply and force main hold good. Few repairs on joints have been made, and there have been no bursts that made it necessary to take out any portion of the pipes. Excepting one burst hole, the pipes look well when they have been uncovered.

## DISTRIBUTION PIPE.

The amount of water-pipe laid in the year 1883 is 7,070 feet, about one mile and a third, at an expense of \$7,814. These extensions have been laid on seventeen different streets, and have ended where the income would not pay the interest on the cost of laying.

There have been no more leaks this year than last, and those that have occurred, in most cases were bursts or old-wound joints. There has been but one case where a break has done any considerable damage the past year. This was in the winter, and the ground was frozen so deep that the water was forced into a cellar through a service-pipe ditch. One of the ball and socket joints of the river pipe got broken by the shifting of the sand on the east shore of the river. A new one was put in, and the pipe is now in good order.

Since the sewer was discharged into the river just above the water-pipe, it has washed out a quarter of an acre of land or more. This has caused what little trouble we have had in this portion of the pipe for the last three years, and all has been done in winter, the ice throwing the current of warm sewer water against the river bank, which is a sandy loam, and it cuts it away very fast. The bank was rubbled this last summer three rods above the pipe, and if it holds this winter, it can be extended north to the mouth of the sewer, and made permanent; otherwise, a break-water will have to be built one hundred feet in length, straight out into the river, to carry the sewer water farther out into the stream.

As a whole, the pipes seem to be in good order ; but as bursts are likely to be more frequent than they formerly were, it requires more care and watching to prevent damage

## PIPES AND FIXTURES LAID IN 1883.

STREETS.	Length in feet laid.			Gates set.			Hydrants.	LOCATION.
	12 in.	6 in.	4 in.	12 in.	6 in.	4 in.		
Amherst .....		360					1	Hall to Belmont.
Auburn .....		404			1			Beech, eastward.
Bath .....		223					1	Third to Second.
Baker .....		60			1		1	Elm, westward.
Beech .....	76							To Auburn.
Beaumont .....		461						Putnam to Sullivan.
Bennington .....		48			1		1	Main, westward.
Bridge .....		832			2		2	Linden to Hall.
Cedar .....					1			Corner Pine.
Dover .....							1	Corner Granite.
Elm .....	1,205			1				Cor. River road to Baker.
Goffstown rd. ....		1,076			1		2	Front street westward.
Mill .....		141			1		1	Thrd, eastward.
McGregor .....		1,151			1			Putnam to Amory
Marion .....		16			1			McGregor, westward.
Nashua .....			72					Lowell southward
Pine .....		755			2			Webster, southward.
Putnam .....		36					1	Beaumont, westward.
Shasta .....		58			1		1	Elm, westward.
Spruce .....		96						East of Lincoln.
West .....							1	Corner Granite.
	1,281	5,717	72	1	13	2	11	

$1\frac{17}{52}\frac{90}{80}$  miles laid in 1883.



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

STREETS.	Length in feet.			LOCATION.
	10 in.	6 in.	4 in.	
Cedar.....		8		Near Chesnut.
Chestnut.....			7	100 ft. north of Hanover St.
Chestnut.....			7	Opposite No. 275.
Dover.....			7	Corner Granite.
Douglas.....		10		Corner West.
Douglas.....		8		Opposite old reservoir.
Granite.....		21.5		Corner West.
Main.....	8			Corner Milford.
Merrimack.....		8.5		Corner Chestnut.
Pearl.....		8		Opposite No. 142.
Stark.....		6		Opposite No. 13.
West.....			36	Corner Granite.
Washington.....			8	Corner Church.
Winter.....		8		Opp D.Stevens' residence.
Young.....		8		Near Willow.
	8	86	65	Total length 159 feet.

#### LOCATION OF HYDRANTS SET IN 1883.

Amherst corner Belmont.  
 Baker corner Elm.  
 Bath corner Second.  
 Bennington corner Main.  
 Bridge corner Ashland.  
 Bridge corner Hall.  
 Goffstown road.  
 Goffstown road.  
 Mill.  
 Putnam corner Beauport.  
 Shasta corner Elm.

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1883.

STREETS.	Length and size of cement-lined pipe laid.							Length and size of cast-iron pipe laid.							Airt valves.	Hydrants.			
	20 inch.							Gates set.											
	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20in	14in	12 in.	10in	8in.	6in.	4in.						
Force main, C. I. J.	1419.0																		
Force main, C. J.	6751.9				111	12												2	1
Supply main.....	8103.0				126	307	28								1			1	4
Adams.....							98												1
Appleton.....							1677												4
Amherst.....					4508		365												4
Arlington.....					1402														11
Ash.....					750														3
Ashland.....			334½				663												1
Auburn.....					1988														6
Baker.....																			1
Bay.....																			1
Bedford.....					202														3
Beech.....			4055		37		1638												2
Birch.....					501														2
Bldget.....					768														2
Bridge.....					2269														4
Brook.....					27														7
Canal.....	151				4573		46												2
Cedar.....					181														8
Central.....					1527														2
Chestnut.....					1198														7
Concord.....					3292														8
Church.....																			12
Dean.....					60														6
Depot.....			757		29														11
Derry.....							78												2
Dutton.....					471														2
East High.....			5544		89		4615	2627											3
Franklin.....																			1
Granite.....			370		21	519	186												3
					184		290												4







## DISTRIBUTION PIPES AND GATES LAID TO DATE.

SIZE.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20 inch diameter.....	20,627.9	411.00	5
14 inch diameter.... .	6,825.0	4,925.00	10
12 inch diameter .....	8,118.0	8,233.00	17
10 inch diameter.....	5,023.75	9,048.00	13
8 inch diameter.....	12,563.0	5,966.00	32
6 inch diameter.....	82,395.0	35,365.05	201
4 inch diameter.....	8,592.0	2,184.00	19
	144,144.65	66,132.5	297

27.30 miles of cement-lined pipe.

12.525 " " cast-iron pipe.

39.825 " " cast-iron and cement-lined pipe.

297 gates.

350 hydrants.

7 air-valves.

## METERS.

There have been set during the year thirty-one (31) meters, making the number now in use four hundred and four (404).

The number of applicants for water to date has been two thousand four hundred and forty.

One hundred and sixty-seven (167) service pipes have been laid this year, as follows:—

1	$\frac{3}{4}$ inch diameter . . . . .	45.0 feet
153	1 " " . . . . .	4,006.2 "
13	2 " " . . . . .	206.4 "
	Length of service pipe . . . . .	<u>4,257.6 feet</u>

Two three-quarter inch service pipes fifty and one-half feet in length have been relaid with inch pipe sixty-five feet in length.

Twenty-two hundred and ninety-four service pipes (2,294) have been laid to date as follows: —

40	$\frac{1}{2}$	inch diameter	.	.	.	.	860.7 feet
1,785	$\frac{3}{4}$	"	"	.	.	.	46,946.7 "
412	1	"	"	.	.	.	11,346.3 "
	$1\frac{1}{4}$	"	"	.	.	.	1,188.9 "
	$1\frac{1}{2}$	"	"	.	.	.	73.0 "
19	2	"	"	.	.	.	778.7 "
6	4	"	"	.	.	.	172.0 "
							61,366.3 feet
Total length of service pipe							61,366.3 feet
Number of miles of service pipe							11.622

The income from the sale of water for 1883 has been as follows: —

Received for water by rate	.	.	\$49,358	24	
" " " " meter	.	.	21,951	55	
" " fines	.	.	208	04	
" " rent of meters	.	.	1,479	65	
" " setting meters	.	.	105	00	
" " building purposes	.	.	314	65	
" " labor and pipe	.	.	20	07	
" " hay on Mill's meadow	.	.	10	00	
" " " " Neal's meadow	.	.	10	00	
" of G. G. Griffin	.	.	1	00	
Total				\$73,458	20
Abatements, \$268.49.					

Current expenses for 1883 . . . . .	\$9,938 92
Expended for construction . . . . .	10,669 18
Interest on bonds . . . . .	38,000 00
	<hr/>
Total expended . . . . .	\$58,608 10
	<hr/>
Receipts over expenditures . . . . .	\$14,850 10
Balance on hand Dec. 31, 1882 . . . . .	11,487 98
	<hr/>
Balance on hand Dec. 31, 1883 . . . . .	\$26,338 08

## CLASSIFICATION OF ACCOUNTS FOR 1883.

Superintendence, collection, and re- pairs . . . . .	\$7,840 58
Stationery, printing, etc. . . . .	129 57
Office and incidental expenses . . . . .	589 22
	<hr/>
	\$8,559 37
Pumping expenses . . . . .	\$1,275 71
Repairs to dam, canal, races, and reservoir . . . . .	67 04
Repairs to buildings . . . . .	36 80
	<hr/>
	\$1,379 55
	<hr/>
Running expenses for 1883 . . . . .	\$9,938 92
Service pipes . . . . .	\$2,510 13
Distribution pipes . . . . .	5,696 30
Fire-hydrants and valves . . . . .	1,024 83
Meters and fittings . . . . .	1,112 62
Fencing . . . . .	30 04
Land and water rights . . . . .	295 26
	<hr/>
Expended on construction in 1883 . . . . .	\$10,669 18
	<hr/>
Total expended in 1883 . . . . .	\$20,608 10



Land and water rights . . . . .	\$38,643	93
Dam, canal, penstock, and races . . . . .	101,399	16
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 . . . . .	277,334	13
Fire-hydrants and valves . . . . .	33,398	34
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 . . . . .	12,343	50
Service pipes . . . . .	34,990	64
Meters and fixtures . . . . .	12,377	68

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Total construction account  
to Dec. 31, 1883 . . . . . \$799,106 93

Current expenses:—

Superintendence, collecting, and re- pairs . . . . .	\$65,297	94
Stationery, printing, etc . . . . .	4,220	22
Office and incidental expenses . . . . .	4,503	26
Pumping expenses and repairs . . . . .	14,950	09
Repairs to dam, canal, races, and reservoir . . . . .	1,770	75
Repairs to buildings . . . . .	313	36

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Current expenses to Dec.  
31, 1883 . . . . . \$91,055 62

Interest . . . . .	\$40,678 51
Highway expenditures . . . . .	14,000 53
	<hr/>
	\$54,679 04

Total amount of bills approved to date . . . . . \$944,841 59

Interest, discount and labor performed on highway, trans., and tools and materials sold . . . . .	\$59,194 34
Current expenses to Dec. 31, 1883 . . . . .	91,055 62
	<hr/>
	\$150,249 96

Total cost, not including interest and current expenses . . . . . \$794,591 63

Interest and discount to Dec. 31, 1882 . . . . .	\$345,901 51
Interest for 1883 . . . . .	36,168 00
	<hr/>

Total interest and discount to Dec 31, 1883 . . . . . \$382,069 51

Amount paid toward interest to Dec. 31, 1882 . . . . .	\$191,000 00
Amount of interest paid in 1883 . . . . .	38,000 00
	<hr/>
	\$229,000 00

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

1872, supplies and materials sold . . . . .	\$573 61
1873, supplies and materials sold . . . . .	177 07
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 expendi- tures, trans. from water account.	14,000 53
March 17,	1874, interest and dis- count, trans. from water account.	12,347 25
Sept. 1,	1874, interest and dis- count, trans. from water account .	22,361 74
	1874, water and hydrant rent, etc. . . .	30,233 54
Dec. 29,	1874, interest trans- ferred . . . .	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. . . .	60,164 62
sale of grass . . .	10 00
sale of derrick . . .	50 00
received of G. G. Griffin . . .	1 00
1882, water and hydrant rent, etc. . . .	67,403 76
received of G. G. Griffin . . .	1 00
received of James Bald- win & Co. . . .	175 00
received from the sale of grass . . .	10 00
received from Goodhue & Birnie . . .	24 37
received for old plank . . .	1 00
received for use of der- rick . . . .	15 00
1883, received of G. G. Griffin . . . .	1 00
received from sale of grass . . . .	20 00
water and hydrant rent, etc. . . .	73,437 20

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Total received for water, etc. . . . \$560,179 67

Amount appropriated to date . . .	\$640,000 00
	<hr/>
Total received to date . . .	\$1,200,179 67
Amount of bills approved to date . . .	944,841 59
	<hr/>
	\$255,338 08
Amount paid toward interest . . .	229,000 00
	<hr/>
Balance on hand Dec. 31, 1883 .	\$26,338 08

Respectfully submitted.

CHARLES K. WALKER,  
*Superintendent.*

## USES FOR WHICH WATER IS SUPPLIED.

## PUBLIC BUILDINGS.

1 Jail.	2 Cemeteries.
12 Churches.	1 Orphanage.
1 Court-house.	1 Post-office.
4 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.	22 School-houses.
1 Soldiers' Monument.	1 Battery Building.
1 Turner Hall.	1 Skating Rink.

## MANUFACTURING ESTABLISHMENTS.

1 Silver-plating.	2 Sash and blind shops.
1 Iron foundry.	2 Breweries.
2 Dye-houses.	2 Shoe-shops.
2 Machine-shops.	1 Pop-corn.
6 Clothing manufactories.	1 Gas-works.
3 Harness-shops.	4 Slaughter-houses.
1 Brush-shop.	1 Soap manufactory.
3 Carriage-shops.	1 Needle manufactory.
4 Cigar.	1 Beer-bottling.
1 Brass and copper foundry.	1 Book-bindery.
1 Locomotive-works.	

## MARKETS.

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

## STABLES.

406 Private.	14 Livery.
1 Horse-railroad.	

## OFFICES.

6 Dentists.	7 Printing.
1 Telephone.	1 Gas.
1 Telegraph.	3 Coal.
2 Express.	

## SHOPS.

20 Barber.	2 Currying.
1 Wheelwright.	5 Plumber and gas and water pipe.
6 Blacksmith.	8 Paint.
5 Carpenter.	1 Gunsmith.
1 Tinsmith.	

## STORES.

4 Auction.	71 Grocery.
19 Drug.	5 Meal.
8 Jewelry.	3 Hardware.
1 Fur.	18 Boot and shoe.
2 House-furnishing goods.	8 Stove.
21 Fancy goods.	15 Gents' furnishing goods.
1 Wholesale paper.	10 Book.
5 Wholesale produce.	1 Leather and shoe finders.
15 Dry goods.	3 Music.
10 Candy.	3 Upholstery.
1 Crockery.	5 Undertakers.
1 Cloak.	5 Sewing-machine.
15 Millinery.	1 Feather-cleaner.
2 Tea.	2 Furniture.

## SALOONS.

9 Dining.	65 Liquor.
6 Billiard.	

## MISCELLANEOUS.

4 Club-rooms.	3 Greenhouses.
2 Bleacheries.	1 Band-room.
8 Laundries.	12 Bakeries.
2 Ice-houses.	1 Waste.
9 Photographers.	

## WATER FIXTURES. ETC.

5383 Families.	118 Urinals.
77 Boarding-houses.	1300 Sill cocks.
6665 Faucets.	349 Fire hydrants.
936 Wash-bowls.	22 Stand pipes.
1058 Water-closets.	16 Water-troughs.
255 Wash-tubs.	1096 Horses.
303 Bath-tubs.	44 Cattle.



## MATERIAL ON HAND.

## BENDS, SLEEVES, AND PLUGS.

1 8 in. 1-4 bend.	6 20 in. clamp sleeves.
1 12 in. 1-8 bend.	4 12 in. clamp sleeves.
1 4 in. 1-4 bend.	5 10 in. clamp sleeves.
3 6 in. 1-8 bend.	10 8 in. clamp sleeves.
6 20 in. solid sleeves.	1 8 in. x 6 in. reducer.
7 14 in. solid sleeves.	2 12 in. x 6 in. reducer.
11 6 in. solid sleeves.	2 6 in. x 4 in. reducer.
4 12 in. solid sleeves.	2 14 in. cement plugs.
6 4 in. solid sleeves.	2 10 in. cast-iron plugs.
2 14 in. clamp sleeves.	
1193 feet 1 inch pipe.	
330 feet 2 inch pipe.	
636 feet 3-4 inch pipe.	
600 pounds of lead.	

## PIPE.

450 ft. 20 in. pipe.	600 ft. 14 in. pipe.
348 ft. 12 in. pipe.	156 ft. 12 in. flange pipe.
720 ft. 10 in. pipe.	2196 ft. 8 in. pipe.
240 ft. 6 in. pipe.	31½ ft. 8 in. wrought-iron pipe.
400 ft. 4 in. pipe.	

## BRANCHES.

2 double 6 on 6.	1 double 6 on 12.
1 double 6 on 14.	1 double 4 on 6.
9 double 6 on 10.	1 double 10 on 20.
1 double 6 on 8.	2 single 6 on 20.
1 single 12 on 14.	5 single 6 on 10.
1 single 6 on 8.	9 single 6 on 6.
2 single 10 on 10.	3 single 6 on 14.

2 single 4 on 4.  
5 single 4 on 6.

3 single 6 on 12.  
1 single 8 on 8.

## GATES.

2 6 in. Ludlow hub.  
4 4 in. Ludlow hub.

3 6 in. Ludlow spigot.

## 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.	100 pounds waste.
5 lanterns.	20 pounds black lead.
3 monkey-wrenches.	3 cords wood.
1 square.	14 tons coal.
1 plumb square.	2 ice chisels.
1 sprinkler-pot.	2 cold chisels.
1 clock.	2 wood chisels.
1 washer-cutter.	2 hammers.
2 planes.	3 drip-pans.
1 thermometer.	1 two-inch auger.
1 lawn-mower.	1 ten-inch arbor for babbitt-
1 socket wrench.	ing.
6 fork wrenches.	1 flash-board hook.
2 screen rakes.	1 broom.
4 crow-bars.	1 set blocks and falls.
1 bellows and anvil.	6 pounds hemp packings.
2 pipe wrenches.	1 draw shave.
1 window brush.	2 screw plates, taps and
1 gate wrench.	dies.
1 long key.	1 vise.
1 hydrant wrench.	200 feet 7-8 inch hose.
1 wheelbarrow.	2 set dog chains.
1 five-pail kettle.	1 set blacksmith's tools.

- 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 1-4 barrels oil.
- 1 jack-screw.
- 1 brace and six bits.
- 1 trowel.
- 2 wood-saws.
- 2 handsaws.
- 1 iron slush-bucket.
- 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.
- 5 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.
- 10 mason hods.
- 1 lot of old wheelbarrows.
- 1 lot of old shovels.
- 1 20-inch gate.

## AUDITOR'S REPORT.

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*To the Honorable Board of Water Commissioners of the  
City of Manchester :—*

GENTLEMEN, — I hereby certify that I have examined the accounts of receipts, in the office of Superintendent of Water-Works in this city, for the year ending Dec. 31, 1883, and find them correct, the amount of receipts being \$73,-458.20, and he holds appropriate vouchers for having paid that sum to the city treasurer.

Respectfully submitted.

JOSEPH E. BENNETT,  
*Auditor.*

REPORT  
OF THE  
TRUSTEES OF THE CITY LIBRARY.



ANNUAL REPORT  
OF THE  
TRUSTEES OF THE CITY LIBRARY.

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

In accordance with the provisions of the contract under which the City Library was established and organized, the trustees submit herewith their thirtieth annual report of the affairs of the library, together with the report made to them by the treasurer of the board, of the expenditures made by him in behalf of the board from the funds placed under their control, and the report of the librarian, which gives in detail the statistics and operations of the library for the past year, and the condition of the library and other property under her care at the close of the year.

From the report of the librarian it appears that the library has been open for the delivery of books three hundred and seven days, during which period the number of books delivered for home use has been fifty-three thousand nine hundred and forty-eight. In addition to this number delivered for general circulation, four thousand three hundred and eighty books and magazines have been delivered for use in the reading-room at the library, making the total number delivered during the year fifty-eight thousand three hundred and twenty-eight, an average of nearly one hundred and ninety per day. The circulation of books for home use during the past year has increased more than

twelve thousand over that of the year preceding, and has exceeded that of any other year since the library was established.

The number of volumes in the library at the date of the last report was twenty-six thousand and fourteen. During the year there have been added, by purchase five hundred and twenty-seven volumes, by donation two hundred and ninety-three volumes, and one hundred and one volumes of periodicals have been bound, making the number of bound volumes in the library at the present time twenty-five thousand and thirty-one, and the total number, including maps and pamphlets, twenty-six thousand nine hundred and thirty-five.

Thirty-five volumes have been taken from the shelves and withdrawn from circulation, having become worn out and unfit for further use. Of this number, and of those withdrawn from circulation in previous years for the same reason, sixteen have been replaced. The others will be replaced as soon as the trustees are able to procure them.

Sixty different periodicals have been regularly received at the library, and as fast as the volumes have been completed they have been bound and placed upon the shelves for general distribution.

As will be seen by reference to the report of the treasurer, there has been expended during the year for the purchase of books the sum of eleven hundred and ninety-eight dollars and sixty-five cents, and for the purchase of periodicals the sum of one hundred and sixty-eight dollars and ninety-nine cents, making a total expenditure for these purposes of thirteen hundred and sixty-seven dollars and sixty-four cents. Of the amount expended for the purchase of books, the sum of two hundred and ninety-one dollars and twenty-six cents was taken from the income of the Dean fund and used for the purchase of books for that de-



partment of the library. The balance in the hands of the treasurer at the end of the year of the amount appropriated by the city councils for the purchase of books was four hundred and one dollars and seventy-four cents. The accumulated income of the Dean fund now amounts to three thousand nine hundred and fifteen dollars and eighteen cents. This sum, together with the balance above indicated, constitutes the funds in the hands of the trustees available at the close of the year for the further increase of the library.

The expenditures for the incidental expenses of the library for the past year have been one thousand six hundred and twenty-eight dollars and eighteen cents. The items of these expenditures — the bills for which have been paid through the office of the city treasurer after approval by the trustees — may be found in the annual report of the city. The bill for the year's supply of fuel, amounting to two hundred and sixty-seven dollars and twenty cents, which was purchased for the library by a committee of the city councils, was not presented to the trustees for approval until too late to be included in the expenses of the year.

Annexed to the report of the librarian will be found a list of books presented to the library during the year, and the names of the persons presenting them. To those who in so substantial a manner have aided in the increase of the library, the trustees return the thanks of the city.

At the commencement of the year the Hon. William P. Newell, who had faithfully served as one of the committee on accounts of the board of trustees ever since the library was established, asked to be relieved from further service on account of ill health. The board greatly regretted Mr. Newell's retirement, and reluctantly accepted his resignation. In appreciation of his long and satisfactory service, the following resolution was unanimously adopted by the board: —

*Resolved*, That the thanks of the trustees be tendered to Mr. Newell for the punctual and efficient manner in which he has discharged his duties as one of the committee on accounts of the board of trustees from the organization of the library to the present time, a period of more than twenty-eight years.

Hon. L. B. Clough was elected to fill the vacancy on the committee occasioned by the resignation of Mr. Newell.

For a number of years past the books in the library have been insured only in the sum of twenty-five hundred dollars. In view of the increased value of the library from yearly accessions, the trustees considered this amount inadequate for the proper protection of the interests of the public, and accordingly caused the insurance to be increased to the sum of ten thousand dollars.

In accordance with the plan that has been suggested in previous reports, the trustees have commenced the purchase of books from the accumulation of the Dean fund. Eighty-nine volumes have been purchased the past year at a cost of two hundred ninety-one dollars and twenty-six cents. These books have been placed in alcoves by themselves, and will be distinguished as the "Dean Fund Purchase." It is the intention of the trustees to make accessions to this department of the more valuable mechanical, scientific, and technical works, as they may from time to time be published.

To enable a library to exert its greatest influence, it is essential that the public should be informed what books are upon its shelves, and for this purpose a good catalogue is necessary. It is now nearly seven years since the last catalogue was published, and during that time more than five thousand volumes have been added to the library. Much time is lost and annoyance occasioned, both to patrons and librarian, for the lack of such information as should be readily obtained from a catalogue. An index catalogue of

the accessions made since 1877 is one of the greatest needs of the library at the present time, but without a special appropriation the trustees cannot arrange for the preparation and printing of such a catalogue as would be desirable, as the annual appropriations barely meet the incidental expenses of the library. The trustees would respectfully recommend that the city councils appropriate a sum sufficient to cover the expense of preparing and printing a supplement to the present catalogue, which should contain the accessions made to the library from 1877 to the present time.

During the past year no special work has been undertaken at the library beyond the usual routine, and no circumstance has occurred to interfere with the harmonious operation of the library.

The librarian, Mrs. M. J. Buncher, has continued to discharge the duties of her position with fidelity and to the satisfaction of the board.

The trustees desire to return their acknowledgments to the members of the city councils, with whom the management of the affairs of the library have brought them in contact, for the courtesy and consideration with which their suggestions for improvements at the library have been received and carried out.

January 19, 1884.

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.

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*To the Board of Trustees of the City Library:—*

The Treasurer of the Board presents the following account of the receipts and expenditures by the board of the funds received on account of the City Library:—

1883.		DR.
Jan. 1.	To balance of appropriation . . .	\$434 21
June 20.	cash of Mrs. M. J. Buncher, balance of fines . . .	20 93
	cash of Mrs. M. J. Buncher, for catalogues sold . . .	22 98
July 3.	appropriation for 1883 for books	1,000 00
Jan. 1.	balance of income of Dean fund . . . \$3,746 58	
	income of Dean fund 153 00	
July 3.	income of Dean fund 153 00	
	interest on accumulation of income . . . 74 38	
	interest on accumulation of income . . . 79 48	
		\$4,206 44
		\$5,684 56

1883.		Cr.	
Jan.	1.	Paid Lockwood, Brooks, & Co., books . . . . .	\$49 19
	5.	N. E. News Co., periodicals .	12 07
	18.	James Anglim, books . . . .	15 00
	23.	G. F. Boshier & Co., books .	5 30
Feb.	6.	N. E. News Co., periodicals .	10 52
	12.	Lockwood, Brooks, & Co, books . . . . .	34 75
March	1.	Soule & Bugbee, periodicals	5 00
	1.	W. H. Stevenson, periodicals	5 10
	5.	N. E. News Co., periodicals .	9 24
April	7.	N. E. News Co., periodicals .	14 75
	12.	Lockwood, Brooks, & Co., books . . . . .	104 67
	17.	L. R. Hamersly & Co., books	5 00
	17.	Lockwood, Brooks, & Co., books . . . . .	8 75
May	3.	Little, Brown, & Co., books .	5 50
	3.	N. E. News Co., periodicals .	15 49
	14.	George H. Polley & Co., pe- riodicals . . . . .	12 00
	23.	Lee & Shepard, books . . . .	9 00
	25.	Little, Brown, & Co., books .	14 85
June	4.	J. E. Miller, books . . . . .	5 00
	5.	N. E. News Co., periodicals .	12 06
	9.	Boston Society of Natural His- tory, periodicals . . . . .	3 00
	22.	Lockwood, Brooks, & Co., books . . . . .	19 06
	27.	O. Hinckley, books . . . . .	10 00
	28.	Lockwood, Brooks, & Co., books . . . . .	19 90
July	3.	L. A. Morrison, books . . . .	3 35

July	6.	Paid N. E. News Co., periodicals .	\$14 08
	18.	Sarah M. Burnham, books .	4 00
	24.	Little, Brown, & Co., books	4 25
	26.	W. T. Stevens, books . . .	2 75
Aug.	2.	Little, Brown, & Co. for Dean fund purchase, books	291 26
	2.	Lockwood, Brooks, & Co., books . . . . .	181 66
	4.	N. E. News Co., periodicals .	10 77
	6.	Lockwood, Brooks, & Co., books . . . . .	40 32
Sept.	4.	N. E. News Co., periodicals .	10 57
	5.	Little, Brown, & Co., books .	20 00
	11.	Little, Brown, & Co., books .	3 50
	27.	J. B. Sanborn, books . . . .	5 00
Oct.	6.	N. E. News Co., periodicals .	12 10
	8.	Little, Brown, & Co., books .	20 00
	26.	Lockwood, Brooks, & Co., books . . . . .	55 41
Nov.	5.	Thos. W. Lane, books . . . .	4 00
	6.	N. E. News Co., periodicals .	11 81
	8.	Lockwood, Brooks, & Co., books . . . . .	70 44
	17.	Lockwood, Brooks, & Co., books . . . . .	37 84
	17.	Thos. W. Lane, books . . . .	4 50
Dec.	4.	N. E. News Co., periodicals .	10 43
	4.	Little, Brown, & Co., books .	20 00
	11.	Lockwood, Brooks, & Co., books . . . . .	28 42
	14.	Chas. Scribner's Sons, books	96 00
	31.	By balance of appropriation, etc. .	401 74
		income of Dean fund . . . .	3,915 18

---

\$5,684 56

The expenditures for incidental expenses of the library for the year ending December 31, 1883, the items of which may be found at length in the annual report of the city, are as follows : —

Services of librarian . . . . .	\$624 99
Services of assistant to librarian . . . . .	234 75
Gas . . . . .	266 22
Binding . . . . .	95 76
Re-binding . . . . .	139 64
Insurance . . . . .	94 15
Water . . . . .	21 00
Fuel . . . . .	17 13
Printing . . . . .	55 20
Incidentals . . . . .	79 34
	<hr/>
	\$1,628 18

RECAPITULATION.

Balance Dec. 31, 1882 . . . . .	\$218 75
Appropriation for 1883 . . . . .	3,000 00
	<hr/>
	\$3,218 75
Paid trustees for purchase of books \$1,000 00	
Incidental expenses . . . . .	1,628 18
Balance Dec. 31, 1883 . . . . .	590 57
	<hr/>
	\$3,218 75

Respectfully submitted.

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

December 31, 1883.

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

L. B. CLOUGH,

H. B. PUTNAM,

*Committee on Accounts of City Library.*

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December 31, 1883.

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.

N. P. KIDDER,

*City Auditor.*



## LIBRARIAN'S REPORT.

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*Gentlemen of the Board of Trustees :—*

I respectfully submit the annual report of the condition of the library during the year ending December 31, 1883 :

Whole number of volumes, Dec. 31, 1882 . . . . . 26,014

Accessions during the year :—

By purchase . . . . .	527	
Donated . . . . .	293	
Periodicals . . . . .	101	
	921	

Whole number of volumes at present :—

Maps . . . . .	16	
Pamphlets . . . . .	1,788	
Bound volumes . . . . .	25,131	
	26,935	

Number of periodicals and papers regularly received . . . . . 60

Number of days open to the public . . . . . 307

Days open for delivery of books . . . . . 307

Number of volumes in circulation during the year . . . . . 53,948

Average per day . . . . . 176

Largest number in any one day, Feb. 17 . . . . . 470

Largest number any one month, March . . . . . 6,030

Whole number of books, magazines, etc., used in the library . . . . .		4,380
Average per day . . . . .		14
Number of guarantees received during the year		775
Whole number since new registration . . .		4,234
Number of cards used on deposit . . . . .		10
Number of cards held for fines . . . . .		12
Postals sent for books overdue . . . . .		377
Number of books taken from the shelves unfit for use . . . . .		35
Books lost or injured, and paid for . . . . .		5
Books replaced during the year . . . . .		16
Number repaired at the bindery . . . . .		310
Repaired and covered in the library . . . . .		4,096
Books returned, missing last year . . . . .		2
Balance of fines on hand Dec. 31, 1882 . . . . .	\$20	93
Amount received from Jan. 1 to Dec. 31, 1883		92 20
		<hr/>
		\$113 13
Amount paid for express, stationery and other incidental expenses . . . . .	\$37	13
Paid N. P. Hunt, treasurer . . . . .	20	93
		<hr/>
		\$58 06
Balance of fines on hand Dec. 31, 1883 . . . . .		<hr/>
		\$55 07
Balance of cash on hand Dec. 31, 1882, for catalogues and supplements sold, and one book injured and paid for . . . . .		\$22 98
Amount received from Jan. 1 to Dec. 31, 1883 :		
For 21 new catalogues at 75 cents . . . . .	\$15	75
For 56 supplements at 10 cents . . . . .	5	60

Five books lost or injured . . . . .	\$4 08	
Waste paper sold . . . . .	4 00	
	<hr/>	\$29 43
		<hr/>
		\$52 41
Paid N. P. Hunt, treasurer . . . . .		22 98
		<hr/>
		\$29 43
Balance received for fines . . . . .		55 07
		<hr/>
Total balance on hand . . . . .		\$84 50

The foregoing statistics give substantially the work of the library during the past year, as no special work has been accomplished beyond the regular routine of duties.

At the close of the last report the library contained twenty-four thousand two hundred and sixty-eight volumes, one thousand seven hundred and thirty pamphlets, and sixteen maps. The accessions during the year were eight hundred and sixty-three volumes and fifty-eight pamphlets, five hundred and twenty-seven volumes by purchase, of which number eighty-nine volumes was the first purchase from the "Dean Fund," and it is to be known as "the Dean Donation;" one hundred and one periodicals and papers bound, and two hundred and ninety-three were gifts from various sources, making the total number added nine hundred and twenty-one.

The number of books withdrawn from the shelves, unfit for use, is much smaller than preceding years; also the number repaired at the bindery is less. It is gratifying to believe there is a growing improvement in the manner of using the books by the patrons of the library.

Sixty periodicals and papers are regularly received. The "Manchester Weekly Times" has been discontinued, and the "American Law Review," "Central Law Journal,"

“The Science,” “The Critic,” and “Lippincott’s Magazine” have been added to the list.

The circulation, compared with last year, shows an increase of several thousand volumes. The proportion of fiction read is about the same as in previous years, but there is a very perceptible growth in the class of better readers.

No marked change in the use of the reading-room has occurred, except a slight decrease in the number of books delivered. It has been as actively used for purposes of reference by the members of our schools and others seeking information, but the class of readers who come for recreation has been somewhat less. The cause may be attributed, I think, to the pleasant reading-rooms of the Y. M. C. and Y. W. C. associations.

At the semi-annual examination in July there were eight volumes missing. Three have since come in. Of the remainder only one was of much value. At the present examination there are seven volumes yet to come in. Some are doubtful, but not yet reported as lost. Of this number all but three are fiction and juvenile. Two volumes missing last year have returned.

Our thanks are due the Hon. James F. Briggs, through whose agency and kindness we have received a large number of the United States government publications during the past year; also to many other donors of valuable books and pamphlets.

In conclusion, I desire to express my grateful appreciation of the uniform kindness of the board of trustees, and thanks to the treasurer for his kind assistance in many ways during the year.

Respectfully submitted.

M. J. BUNCHER, *Librarian.*

# DONATIONS TO THE CITY LIBRARY

FROM JANUARY 1 TO DECEMBER 31, 1883.

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JUDGE C. W. STANLEY, Manchester, N. H.

Twelve volumes, viz. : —

Kinne's Compendium of Law. 11 Vols. 8vo.

The Principles of Natural and Political Law. 1 Vol.

S. C. GOULD, Esq., Manchester, N. H.

Twelve volumes, viz. : —

Proceedings of the Right Worthy Grand Lodge of the  
United States of the I. O. O. F. 1872-78. 5  
Vols. 8vo.

Proceedings of the Sovereign Grand Lodge of the  
I. O. O. F. 1880-82. 2 Vols. 8vo.

Journal of Proceedings of the M. W. Grand Lodge of  
Free and Accepted Masons of the State of New  
Hampshire. 1870-76. 4 Vols. 8vo.

Notes and Queries. Vol. 1. By S. C. and L. M.  
Gould.

Report of State Librarian of New Hampshire for the  
year 1882. Pamphlet. And many other valuable  
pamphlets.

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

Printers' Circular. Vols. 5, 6, 7, and 8. 8vo.

Springfield Republican for 1882.

Constitution and Regulations of the Grand Lodge of  
Masons of New Hampshire. 8vo.

Proceedings of the New Hampshire Press Association,  
fourteenth and fifteenth annual meetings. Pam-  
phlets.

Ascension-Tide Service for Knights Templars.  
Pamphlet.

JOHN B. CLARKE, ESQ., Manchester, N. H.

Successful New Hampshire Men. 8vo.

Manchester Directory for the year 1882. 8vo. John  
B. Clarke, Esq., publisher.

GRAND ENCAMPMENT OF NEW HAMPSHIRE.

Journal of Proceedings of the Grand Encampment of  
the I. O. O. F. of New Hampshire. Vol. 1. 1845-  
82. 8vo. Hon. Joseph Kidder, Scribe.

GRAND LODGE OF NEW HAMPSHIRE.

Journal of Proceedings of the R. W. Grand Lodge of  
New Hampshire. 1844-81. 8vo. 2 Vols. Hon.  
Joseph Kidder, Scribe.

N. P. KIDDER, ESQ., City Clerk.

New Hampshire Town Papers. Vol. 12. 8vo.

New Hampshire Law Report. Vol. 58. 8vo.

Thirty-seventh Annual Report of the receipts and ex-  
penditures of the City of Manchester for the year  
1882. 8vo.

STATE OF NEW HAMPSHIRE.

New Hampshire Town Papers. Vol. 11. 1680-1800.  
8vo.

HON. PETER COOPER, New York.

Ideas for a Science of Good Government. By Hon.  
Peter Cooper. 8vo.

JAMES S. McDONALD, State Librarian, N. J.

New Jersey Archives. Vols. 5, 6, and 7. 1720-51.  
8vo.

CHARLES COWLEY, ESQ., Lowell, Mass.

Leaves from a Lawyer's Life Afloat and Ashore. By  
Charles Cowley, Esq. 12mo.

F. F. AYER, ESQ., Lowell.

Reminiscences of James C. Ayer, of Lowell, and town of Ayer. 8vo.

C. R. MORRISON, ESQ., Manchester, N. H.

Proofs of the Resurrection of Christ, from a Lawyer's Standpoint. By C. R. Morrison. 12mo.

THOMAS R. HAZZARD, ESQ., Vancluse, R. I.

Miscellaneous Essays and Letters. 16mo.

C. M. TOLMAN.

Epitome. 1885. Published by the Sophomore class of Lehigh University, Penn. 8vo.

MECHANICS' INSTITUTE, CINCINNATI.

Scientific Proceedings. Vol. 2. 1883.

THE INTERNATIONAL TRACT AND MISSIONARY SOCIETY, Lancaster, Mass. 6 Vols., viz. : —

Thoughts on the Revelation. 16mo.

Thoughts on Daniel. 16mo.

The spirit of Prophecy. 3 Vols. 16mo.

Life of William Miller. 16mo.

BOARD OF EDUCATION, Cincinnati.

Fifty-Third Annual Report of the Public Schools of Cincinnati. 1882. 8vo.

PUBLIC LIBRARY, Fall River, Mass.

Library Catalogue. 1882. 8vo.

PUBLIC LIBRARY, Lawrence, Mass.

Supplement to Catalogue, 1878-1883. 8vo.

WILLIAM SIMS, ESQ.

Third Biennial Report of the Kansas State Board of Agriculture, for the years 1881, 1882. 8vo.

DARTMOUTH COLLEGE.

The Dartmouth. Vol. 4. 1882. 8vo.

HISTORICAL ASSOCIATION, Lowell, Mass.

"Contributions of Old Residents" to the City of Lowell. Nos. 3 and 4, completing Vol. 2. Pamphlet.

## BOSTON PUBLIC LIBRARY.

Bulletins Nos. 5, 6, and 7, completing Vol. 5. 1883.

E. M. BOWMAN, City Clerk, Nashua, N. H.

Thirtieth Annual Report of the receipts and expenditures of the City of Nashua for 1882. 12mo.

CONCORD, N. H.

Thirteenth Annual Report of receipts and expenditures of the City of Concord. 1882. Pamphlet.

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

Annual Report of the County Commissioners. Pamph.  
Inaugural Address to the City Government, January 2, 1883. Pamphlet.

WM. H. STINSON, Secretary.

Ninth Annual Report of the New Hampshire State Grange, Dec. 19 and 20, 1882. Pamphlet.

GEORGE E. JENKS, Esq., compiler.

New Hampshire Census Statistics. 1880. Pamphlet.

GEORGE W. MCGOWAN, author.

City of Bridgeton, N. J., its location, attractions, and industries. Pamphlet.

E. J. DONNELL, New York, author.

Slavery and Protection. A historical review and appeal to the workshop and farm. Pamphlet.

COBDEN CLUB, London.

Financial Reform Almanac for 1883. 8vo.

THE PUBLISHERS.

The Universalist Quarterly for the year 1883. J. B. Thayer, editor.

THE PUBLISHERS.

Real Estate Review for the year 1883. Folio.

PROPRIETAIRES.

Echo des Canadiens for the year 1883. Folio.

THE PUBLISHERS.

The Manchester Guardian for the year 1883. Folio.



ALFRED E. WHITAKER, Librarian.

Annual Reports of the Free Public Library of San Francisco, Cal., for the year ending June 30, 1881, 1882, and 1883. Pamphlet.

JONATHAN TENNY, Librarian.

Report of the Young Men's Association for Mutual Improvement, Albany, N. Y. 1882. Pamphlet.

FROM THE SEVERAL LIBRARIANS OR BOARDS OF TRUSTEES.

Report of the City Library Association of Springfield, Mass. 1882-83. Pamphlet.

Report of the Free Library, Brookline, Mass. 1882. Pamphlet.

Twenty-sixth Annual Report of the Public Library, Woburn, Mass. 1882. Pamphlet.

Twenty-third Annual Report of the Free Library, Worcester, Mass. 1882. Pamphlet.

Annual Report of the Free Library, Newton, Mass. 1882. Pamphlet.

Twenty-first Annual Report of the Peabody Institute, Peabody, Mass. 1882. Pamphlet.

Annual Report of the Public Library in Melrose, Mass. 1882. Pamphlet.

Ninth Annual Report of the Bigelow Free Library, Clinton, Mass. 1882. Pamphlet.

Thirty-first Annual Report of the Public Library, Boston, Mass.

Seventh and Eighth Annual Reports of the town of Abington, Mass., 1881 and 1882, including Library Reports and Catalogues.

Report of the Friends' Free Library, Germantown, Penn., and Catalogue. Pamphlets.

Sixteenth Annual Report of the Peabody Institute, Baltimore, Md. 1882-83. Pamphlet.

Fifth Annual Report of the Public Library, Milwaukee, Wis. 1882. Pamphlet.

- Eleventh Annual Report of the Chicago Public Library. June, 1883. Pamphlet.
- Thirteenth Annual Report of the Mercantile Library Association of San Francisco, Cal. 1882. Pamphlet.
- Fifth Report of the Public Library of Providence, R. I. 1882. Pamphlet.
- Twenty-fifth Annual Report of the Brooklyn Library, N. Y. March, 1883.
- Thirty-fourth Annual Report of the Astor Library, N. Y., for 1882. Pamphlet.
- Sixty-second Annual Report of the Mercantile Library Association, N. Y. City. 1882-83. Pamphlet.
- Annual Report of the Public Library, Bridgeport, Conn. July, 1883. Pamphlet.
- Eighth Annual Report of the Public Library, and Gallery of Art Committee, Borough of Swansea, Wales. 1881-82. Pamphlet.
- Thirtieth and Thirty-first Annual Reports of the Free Public Libraries of Manchester, Eng. for the years 1881-82 and 1882-83. Pamphlet.
- Thirty-Fourth Annual Announcement of the Woman's Medical College, Philadelphia. May, 1883. Pamphlet.
- Bulletin No. 10 (new series) of the Library Company, Philadelphia. Jan., 1883.
- Annual Report of the Lowell City Library for the year 1882. Pamphlet.
- Annual Report of the Town of Windham, N. H., including Report of the Nesmith Library for 1882. Pamphlet.
- Fifteenth Annual Report of the Newmarket Manufacturing Company. Pamphlet.
- JUDGE N. P. HUNT, Manchester, N. H.
- Six pamphlets, viz.: The Inaugural Addresses of Hon. P. C. Cheney, Hon. Frederick Smyth, Hon.

E. W. Harrington, and Hon. I. W. Smith, the several Mayors of the City of Manchester, N. H.

HON. JAMES A. WESTON, Manchester, N. H.

Inaugural Addresses as Mayor of the City, in the years 1869, 1870, 1871, and 1872. Four pamphlets.

HON. C. H. BARTLETT, Manchester, N. H.

Inaugural Address as Mayor of the City, Jan. 6, 1873. Pamphlet.

HENRY H. EVERETT, publisher.

The Manchester Weekly Times for the year 1882. Folio.

HON. JAMES F. BRIGGS.

Twenty-nine volumes of Congressional Documents, viz. : Reports of Heads of Departments, 1882-3. 8vo.

Eighteen volumes of the Congressional Record, 3d Session, 46th Congress, and 1st Session, 47th Congress. 4to.

Seven volumes, viz. : War of the Rebellion, Official Record of the Union and Confederate Armies. 8vo.

Three volumes Consular Reports, Nos. 1, 2, and 3, 1880-81. 8vo. 1 Vol.

American Ephemerus and Nautical Almanac for the year 1886. 4to. 1 Vol.

The Production of Gold and Silver in the United States in 1882. Report of Horatio C. Burchard, Director of the Mint. 8vo.

Report on Forestry, by the Commissioner of Agriculture, George B. Loring, 1882. 8vo.

Report of the Smithsonian Institute, 1881. 8vo.

SMITHSONIAN INSTITUTE, Washington.

Six volumes, viz. : Smithsonian Collections, Nos. 22, 23, 24, 25, 26, and 27. 8vo.

HON. HORATIO C. BURCHARD, Director.

Annual Reports of the United States Mint for the years 1880, 1881, and 1882. 8vo.

BUREAU OF EDUCATION, Washington.

Answers to Inquiries about the United States Bureau of Education. Its Work and History.

Illiteracy and its Social, Political, and Industrial Effects. By Hon John Eaton, U. S. Commissioner of Education. Pamphlet.

Circulars of Information. Nos. 2, 3, 5, and 6, 1882, and 2 and 3, 1883. Pamphlets.

INTERIOR DEPARTMENT, Washington.

Compendium of the Tenth Census. June 1, 1880. 2 Vols. 8vo.

Annual Report of the Commissioner of Patents for the year 1882. 8vo.

Report regarding the Publication and Distribution of Public Documents.

TREASURY DEPARTMENT.

Reports of the Superintendent of the United States Coast and Geodetic Survey for the years 1880, 1881. 2 Vols. 4to.

WAR DEPARTMENT.

Annual Reports of the Chief Signal Officer for the years 1880, 1881. 2 vols. 8vo.

HON. H. B. HAZEN, Chief Signal Officer.

Professional Papers of the Signal Service, No. 2, viz., Isothermal Lines of the United States. 1871, 1880. 4to. Pamphlet.

UNITED STATES CONGRESS.

Forty-three volumes of Executive Documents of past Congresses, to fill imperfect sets.

Thirty-five volumes Public Documents of the 46th and 47th Congresses.

REPORT  
OF THE  
CITY ENGINEER.



# REPORT

OF THE

## CITY ENGINEER.

---

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

SIRS, — I have the pleasure of presenting my third annual report of the work done in the City Engineer's office, and in the several highway districts of the city of Manchester, during the past year.

The expenses of the office for the year 1883 are as follows :—

For salary of city engineer and assistants . . . . .	\$2,257 50	
drawing materials and supplies	81 04	
4 index, 1 record, and 2 bench books . . . . .	46 00	
repairs of instruments . . . . .	18 50	
horse-hire and car-fare . . . . .	140 36	
stakes . . . . .	28 00	
records of highways copied . . . . .	20 00	
incidental expenses . . . . .	13 87	
gas . . . . .	9 00	
	\$2,614 27	
Expense on soldiers' monument :—		
For fifteen new globes . . . . .	\$78 00	
gas . . . . .	24 30	
water . . . . .	50 00	
	\$152 30	

The increased expense this year is owing in part to an increase of the pay of assistants, and in part to being obliged to keep them all winter, owing to the press of office work; also the third and seventh items are articles that should have been purchased the first year of the existence of the office.

The globes for the soldiers' monument having been all broken, I was obliged to purchase a new set, but as there was great difficulty in getting them to fit, it taking three months to get the first order filled, I thought it best to get another, in order to prevent future trouble.

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

Total number of orders for surveys,— street lines and grades,— 488.

Total number of orders for paving and sewer, 180.

Levels for profiles for establishing grades, 26,036 feet, equal to 5 miles.

These profiles having three lines of levels through each street, makes this work equal to 15 miles of levels every 50 feet or less.

Levels for sewer profiles, 11,324 feet, equal to 2.14 miles.

Levels for profiles in Pine Grove Cemetery, 2,101 feet, equal to .4 miles.

Survey of streets and street lines, 143,266.84 feet, equal to 27.13 miles.

Street lines given, 85,979 feet, equal to 16.5 miles.

Grades set for sidewalks . . . . .	35,666 feet
Grades set for macadamizing . . . . .	2,093 “
Grades set for cutting and filling streets . . . . .	3,705 “
Grades set for Pine Grove Cemetery walks and avenues . . . . .	2,000 “
Grades set for Valley Cemetery walks and lots	597 “



Grade set for Park-square grading . . . . .	2,170 feet
Grades for walks in various commons . . . . .	759 "
Grades set for grading Bakersville school lot . . . . .	1,000 "
Grades set for grading Webster-street school lot . . . . .	300 "
Grades set for gutters . . . . .	4,348 "
Grades set for paving . . . . .	958 "
	<hr/>
Total grades set . . . . .	53,596 feet

Whole number of miles of grades set, 10.15.

Street numbers assigned, 150.

Lots laid out in Pine Grove Cemetery, 108.

Lots laid out in Valley Cemetery, 6.

Fifty-one of these lots are a relocation of old lots, and required twice the labor that it would to lay out new lots ; for in each case all the surrounding land had to be surveyed, in order to be sure that every man had his land.

There have been several extensive surveys made this year, as follows :—

Nutt road, from Amoskeag Company's south line to south line of fair grounds, survey and street lines located. Wilson Hill, south of Hanover street and east of Wilson street. Gravel bank in District No. 7. New cemetery at Amoskeag. Land of Mrs. Gilford at Bakersville, by order of committee on streets. Pine Grove Cemetery extension ; this required the location of thirty-nine lines from old deeds, nearly all through woods, and, owing to the variation of needle and careless deeds, some of the lines had to be run two or three times, in order to get every thing correct.

#### PLANS AND PROFILES MADE FOR SIDEWALK GRADES.

A street, Main to B street.

Ash street, Myrtle to Gore street.

Auburn street, Beech to Pine street.

Bay street, Sagamore to North street.  
 Bay street, North to Webster street.  
 Bridge street, Elm to Canal street.  
 C street, Boynton road to B street.  
 Central street, Elm to Chestnut street.  
 Chestnut street, Pearl to Prospect street.  
 Chestnut street, Prospect to Brook street.     .  
 Elm street, Blodget to Salmon street.  
 Elm street, Salmon to Webster street.  
 Elm street, Lowell to Washington street, east side only.  
 Hubbard street, Hanover to Amherst street.  
 Maple street, Hanover to Lowell street.  
 Maple street, Hanover to Gore street.  
 Nashua street, Concord to Bridge street.  
 Pine street, Pennacook to Sagamore street.  
 Pine street, Sagamore to Webster street.  
 Parker street, West to Winter street.  
 Prospect street, east of Derry old line.  
 Ray street, Webster street to Ray brook.  
 Rowell street, Elm street to River road.  
 Sagamore street, Elm to Bay street.  
 Salmon street, Elm street to Christian brook.  
 Thayer street, Elm street to River road.  
 Washington street, Elm to Birch street.  
 Wayne street, McGregor to Beauport west back street.  
 Wilson street, Park to Green street.  
 Wilson street, Green street to Concord & Portsmouth  
 Railroad.  
 Nutt road, Young street to Nutt's pond.   Profile only.  
 Beauport street, Wayne to Amory street.  
 Total plans and profiles, 32.

## SEWER PLANS AND PROFILES.

Salmon street, Elm east back street to Christian brook.  
 Parker street, Main street to North Weare Railroad.

Myrtle street, Russell to Oak street.

Concord street, Nashua to Maple street.

Wilson and Laurel south back street, west of Wilson street.

Quincy, Green, and Douglas streets.

Elm west back street, Bridge to Dean street.

Maple street, Pearl to Myrtle street.

Bridge street, Russell to Ashland street.

Map of 'Squog south of Douglas street, showing all sewers.

Derry and Concord streets, Amherst to Ashland street.

Total sewer plans and profiles, 11.

#### MISCELLANEOUS PLANS.

Auburn street, Beech to Maple street.

Ash-street extension, between Lowell, Nashua, Concord, and Beech streets.

Hancock street, River road to Concord Railroad.

Hancock street, proposed extension, River road to Calef road.

Main street, Mast to Milford street, for J. B. Clarke suit.

Map of west side of river, from Granite to Wayne street, copied from Amoskeag Company's plan.

Map of west side of river, from Wayne street to the eddy, copied from Amoskeag Company's plan.

Massabesic street, Park street to Mammoth road.

Orange street, Elm to Clark's avenue. Plan and profile for suit.

Orange street, Elm to Clark's avenue. Plan for suit, tracing.

Park square, proposed stone-work.

Park square, working plans for stone-work. 2 plans.

Pine Grove Cemetery, new plan of lawn as changed.

Pine Grove Cemetery, proposed extension.

Piscataquog-river bridge, truss.  
 Streets in square bounded by Webster, Chestnut, Sagamore, and Elm streets.  
 Union street, stone arch proposed for Cemetery brook.  
 Webster, street extension from Union to Maple street.  
 Webster-street school lot, location of trees and walks.  
 Land of E. A. Straw for Pine Grove extension.

Wilson Hill — plan of following streets: —

Hanover, Wilson to Beacon street.  
 Manchester, Wilson to Beacon street.  
 Merrimack, Wilson to Beacon street.  
 Laurel, Wilson to Beacon street.  
 Central, Wilson to Beacon street.  
 Park, Wilson to Beacon street.  
 Wilson, Hanover to Park street.  
 Hall, Hanover to Park street.  
 Belmont, Hanover to Park street.  
 Milton, Hanover to Park street.  
 Beacon, Hanover to Park street.

#### NUMBERING PLANS.

Amory street, McGregor to Beauport street.  
 Beauport street, Temple to Amory street.  
 Main street, Sullivan to McGregor street. North end.  
 Ray street, Webster to Ray brook.  
 Wayne street, McGregor to Beauport west back street.

#### OLD PLANS COPIED.

Bakersville, Towlesville, and Hallsville school lots copied on one plan.  
 Belmont street, Merrimack street to Young road.  
 Central street, extension to Hall street, two plans copied on one sheet.  
 Elm street extension, River road to Baker street.

Granite street, Main to Quincy street.

Map of part of Hallsville, between C. & P. R. R., Mammoth and Young road, and Belmont street.

Nutt's pond.

Winter street, Main to 'Squog river, two plans on one sheet.

These were old plans on poor paper, and badly worn, making it necessary to copy them in order to preserve them. The originals will be kept on file for reference, should the copies ever be disputed.

#### WORKING PLANS THAT ARE TO BE COPIED.

Lots in Pine Grove Cemetery. 2 plans.

Profile of Netherland avenue, Pine Grove Cemetery.

Profile of Crocus avenue, Pine Grove Cemetery.

Profile of Columbine avenue, Pine Grove Cemetery.

Profile of part of Chessom avenue, Pine Grove Cemetery.

Profile of part of Linnet avenue, Pine Grove Cemetery.

Profile of part of Woodside avenue, Pine Grove Cemetery.

Plan of Amoskeag new cemetery.

Elm street, paving, Harrison to Brook street.

Nutt road, grading. Profile.

Bakersville school lot, grading.

#### WORKING PLANS NOT KEPT IN THE OFFICE.

Union-street culvert across Cemetery brook.

'Squog-bridge truss, tracing.

Park-square, stone-work, 3 tracings of plans.

Birch street, location of Kate Tooher accident.

Elm street, location of Eliza Creighton suit. 2 plans.

Ash-street extension, outline plan.

Park square, profiles of walks in and around square. 7 profiles.

Elm street, Pennacook to Webster street. Profile.

Pine street, Auburn to Valley street, for iron fence.

Winter-street sewer. Profile.

Valley Cemetery, Joseph E. Bennett's lot.

Valley Cemetery, C. H. Horr's lot.

Total miscellaneous plans, 69.

Total number of plans made, 112.

During the last winter forty-eight old plans were mounted on cloth for their better preservation. Of the plans that were not completed January 1, 1882, 118 of them have been lettered and completed. But there are still remaining 75 plans to be lettered, and the figures put on in order to make them perfect records.

There are also in the office field notes of a large number of surveys made this year, from which plans will be made this winter. In addition to the above work there has been an index-book made containing an alphabetical index of all levels taken and grades set, so far as the city has records, from 1868 to December 31, 1882; also another index-book containing all transit surveys from 1868 to December 31, 1882; also an alphabetical index of all plans in the office; and a catalogue numerically arranged of all plans; when this is brought to date it will show at a glance the number of plans in the office, and the order in which they were made.

The sewer maps in this office, and the sewer-book in the city clerk's office, have been brought up to December 31, 1882. Plans of all highways laid out in 1882 have been made in the city clerk's book of records.

#### GRADES ESTABLISHED.

The following grades have been established during the year:—

A street, Main to B street . . . . .	814 feet.
Ash street, Myrtle to Gore street . . . . .	980 “

Auburn street, Beech to Pine street . . . . .	990 feet.
Bay street, Sagamore to Webster street . . . . .	1,527 "
Beech street, Orange to Gore street . . . . .	1,510 "
Bridge street, Elm to Canal street . . . . .	660 "
C street, Boynton road to B street . . . . .	580 "
Central street, Elm to Chestnut street . . . . .	570 "
Chestnut street, Pearl to Brook street . . . . .	1,450 "
Elm street, east side, Lowell to Washington street . . . . .	185 "
Elm street, Blodget to Webster street . . . . .	2,025 "
Gore street, Union to Oak street . . . . .	1,580 "
Hubbard street, Hanover to Amherst street . . . . .	320 "
Maple street, Hanover to Lowell street . . . . .	945 "
Maple street, Harrison to Gore street . . . . .	700 "
Nashua street, Concord to Bridge street . . . . .	1,155 "
Pine street, Pennacook to Webster street . . . . .	1,810 "
Prospect street, east of Derry old line . . . . .	443 "
Ray street, Webster street to Ray brook . . . . .	530 "
Rowell street, Elm street to River road . . . . .	222 "
Sagamore street, Elm to Bay street . . . . .	261 "
Salmon street, Elm street to Christian brook . . . . .	770 "
Thayer street, Elm street to River road . . . . .	413 "
Washington street, Elm to Birch street . . . . .	300 "
Wilson street, Park street to Concord & Ports- mouth Railroad . . . . .	2,400 "
	<hr/> 23,140 feet.

Grades established this year, 4.38 miles.

#### NEW HIGHWAYS.

The following highways have been laid out this year :

Amory street, McGregor to Beauport street . . . . .	50 feet wide.
Ash street, Lowell to Concord street . . . . .	50 " "
Beauport street, Amory to Wayne street . . . . .	50 " "
Baker street, River road to Calef road . . . . .	49½ " "

Jewett street, Young road to Cilley road	. 50	feet wide.
Main street, McGregor to McGregor street	. 50	“ “
Myrtle street, Ashland street to Chester old line . . . . .	. 50	“ “
Orange street, Russell street to Chester old line . . . . .	. 50	“ “
Parker street, Parker to Winter street .	. 40	“ “
Pine street, Pennacook to Webster street	. 50	“ “
Shasta street, Elm street to River road	. 50	“ “
Wayne street, McGregor to Beauport street	. 50	“ “

Last year in my report I called attention to a few streets that had been considered as public, yet have never been legally laid out. This year I have made a complete list of all streets within the limits of the city proper that have never been laid out legally. The following is the list: —

- Ash street, Prospect to Brook street.
- Beech street, Myrtle to Brook street.
- Belmont street, a portion near Park street. No record.
- Brook street, no part of it is public.
- Cross street, no part of it.
- Douglas street, very uncertain, description not identified.
- Fourth street, School to Walker street.
- Gore street, Oak to Russell street.
- Hall street, Hanover to Park street.
- Lincoln street, Park to Spruce street.
- Maple street, Harrison to Brook street.
- Massabesic street, Park street to Amoskeag Co.'s line.
- Oak street, Harrison to Gore street.
- River street, no part of it.
- Russell street, Myrtle to Harrison street.
- Second street, Granite to Ferry street.
- Taylor street, Massabesic street to the angle.
- Patten street, School to Ferry street.



Union street, Park street, south.

Valley street, Elm to Pine street.

Walnut street, Prospect to Harrison street.

Wilson street, Laurel to Hanover street.

Winter street, about 400 feet at the west end.

Of these streets, it will be seen that a large portion of them are short strips lying between two parts of the same street that have been legally laid out. Some action should be taken in regard to these streets, in order that they may go on record, and the street line and grades established. It is true that most of them will become public in a few years by occupation, but in this case the street lines will be fixed by the existing fences. On many of the streets the fences are very irregular, and in many cases the abutters have fenced in a part of what was originally intended for the street. If the city at any time desires to straighten the lines and make the streets of proper width, they can only do so by paying the abutters damages for land taken; whereas, if the streets are made public before abutters have acquired a right by undisturbed possession of the inclosed lands, the city will save this expense.

#### STREET NAMES CHANGED.

Cross street, to Nashua street.

Center street, to School street.

Second street, to Shirley street.

Third street, to Patten street.

#### NEW HIGHWAYS BUILT.

Auburn street, Union to Beech, turnpiked not graded.

Beech street, Brook to Gore, partly built.

Gore street, partly built.

Hanover street, east of Wilson Hill, widened fifteen feet.

Parker street, commenced last year, completed this.

Pine street, Pennacook to Webster, commenced and culvert built.

Proctor road, Hanover street to C. & P. R. R., turnpiked.

Maple street, Brook to Gore street, graded.

Walnut street, Brook to Gore street, graded.

Nutt road, from Portsmouth Railroad to south end of fair grounds, hills cut down, and street widened from fifteen to thirty feet. In order to make the fill at the C. & P. R. R., Shasta street was cut down and built ready for graveling, from Union to Beech street.

Rowell street, Elm street to River road.

## SEWERS BUILT.

STREETS.	LOCATION.	Material.	Size in inches.	Length in feet.
Bridge, West	McGregor bridge to McGregor st.	Akron.	15	309
McGregor	Bridge to Wayne street	"	15	704
Main (P.)	Schuyler to Putnam street	"	15	862
Nutt road	Near Fair Ground	"	15	100
Shasta	Near River road	"	15	50
Wayne (P.)	McGregor to Main street	"	15	268
Chestnut west back	Park south back to Spruce street	"	12	150
Concord	Derry to Ashland street	"	12	473
Concord	Olive to Maple, re-l'd in p. 10 in.	"	12	396
Concord north back	Pine to Union street, re-laid	"	12	222
Derry	Amherst to Concord	"	12	441
Elm east back	South of Webster	"	12	430
Elm east back	Cedar to Park south back	"	12	413
Gore	Union east back to Beech	"	12	400
Harrison	Walnut e. b'k to Beech do. re ld	"	12	230
Main (P.)	Wayne to Putnam	"	12	480
Main (P.)	Wayne to Amory	"	12	554
Mast (P.)	Near Baldwin's shop	"	12	64
Park south back	Elm e. back to Chestnut w. back	"	12	350
Spruce south back	East of Maple	"	12	396
Wayne	Main to Beauport	"	12	415
	At Webster's Spring	"	12	40
Beech	North of Harrison	"	10	150
Beech east back	North of Harrison	"	10	150
Birch	Washington to Bridge	"	10	120
Bridge	Russell to Hall	"	10	1,355
City Hall		"	10	50
Dover (P.)	Granite to Douglas	"	10	310
Lowell	Jane to Wilson road	"	10	200
Manchester south back	At Lincoln	"	10	90
Maple	Pearl, northerly	"	10	133
Mast (P.)	Across Goffstown road	"	10	40
Mast (P.)	At George Wilkins's	"	10	25
Myrtle	Russell to Oak	"	10	345
River (P.)	Near Ferry, re-laid	"	10	100
Russell	Pearl to Myrtle	"	10	630
Spruce south back	East of Maple	"	10	271
Union	Concord, northerly	"	10	50
Walnut east back	Gore to Brook	"	10	293
Winter (P.)	Main to — street	"	10	1,277
Mast (P.)	At Mr. Martin's house	"	4	75
				13,432

Total 15-inch Akron pipe	. . . . .	2,293 feet.
Total 12-inch Akron pipe	. . . . .	5,445 "
Total 10-inch Akron pipe	. . . . .	5,619 "
Total 4-inch Akron pipe	. . . . .	75 "

Total length of sewers for year, 13,432 feet = 2.54 miles.

Number of catch-basins built, 74.

Number of manholes built, 16.

SEWERS ORDERED BUT NOT BUILT.

STREETS.	LOCATION.	Material.	Size in inches.	Length in feet.
Pearl .....	Ash to Beech.....	Akron.	10	250
Pine.....	Harrison to Brook.....	"	10	425
Patten.....	Walker street to N. W. R. R. . . .	"	10	250
				925

It is unnecessary for me to repeat what I have already said in regard to the sewerage of this city. I can only say, that, so far as the system itself is concerned, there has been no improvement or change. Any one desiring to look further into the matter is referred to my reports for 1881 and 1882. But it is my desire to call your attention to a few facts that have come to my knowledge the past year to show once more the necessity of putting our sewerage into competent hands. On Douglas street there is a twelve-inch Akron sewer flowing east, and a ten-inch Akron sewer flowing west; these unite at West street, and empty into a fifteen-inch Akron pipe. This fifteen-inch pipe goes through West street to the south line of Granite street, where it forms a junction with a nine-inch cement pipe from north of Douglas street. These two then empty into a twelve-inch pipe, and at Clinton street the twelve-inch pipe empties into a nine-inch pipe; *i. e.*, the nine-inch pipe is the outlet for the fifteen-inch and nine-inch pipes united. In this case,

owing to the great difference in grade, the nine-inch pipe will carry all that the twelve-inch will take into it. At the same time, a ten-inch pipe put in place of the nine-inch and fifteen-inch will more than fill the twelve-inch into which they empty. Had this work been in the hands of a competent superintendent, a mixture of this kind would never have been made.

During the past year the city has been unfortunate in its sewer construction, having had a large amount of ledge to deal with. This is the main cause of the shrinkage in the number of feet laid this year compared with last. On Bridge street, west side of river, there were about one hundred feet in length by six feet average depth of ledge; on McGregor street there were about one hundred and fifty feet, with an average depth of four feet; greatest ledge cutting in any one place, twelve feet. This was an unusually hard and expensive piece of work. The stone was uncommonly rough to work, being of an irregular, curly strata, without face or seam, and at the same time confined in a narrow trench. In the construction of this McGregor-street sewer a great mistake was made, which will in a few years make bad work. On account of the ledge the grade of the sewer was raised two and a half feet, contrary to the orders of the committee and directions of the engineer. This raising made it necessary to flatten the grade very much, in order to be low enough to drain cellars that must be connected with it. This flattening will materially diminish the rapidity with which the sewer will discharge its contents. The branch sewers that are to be connected with this one will be one fifteen-inch and two ten-inch, and will have a grade of six feet per hundred. In our heavy showers these will fill the main sewer, which has a grade of only six-tenths of a foot in one hundred feet, much more rapidly than it can empty itself through the proper outlets, and the result will

be that the sewage will set back through all the connections made, flooding cellars and overflowing the streets through the catch-basins.

In company with the committee on sewers I paid a visit to Lowell this summer. I was told that it used to be the custom there to dodge around every way to avoid a little expense: if a boulder was met they would turn around it; if a ledge, the grade would be raised, just the same as has always been done here. In consequence of these irregularities the sewers were defective, and caused a great deal of labor and expense to keep them clear, so that in the end these cheap ways cost double what it would have cost to do the work right in the first place. You will admit that we have had a very similar experience. A few years ago they formed a resolution in Lowell that they would stop this boys' play, and do things as they should be; and now, no matter what obstructions are met, they are all removed, and the line and grade kept straight and uniform. They have also made a rule not to allow any pipe laid on a grade less than one foot per hundred. It would be economy if Manchester would adopt similar resolutions.

#### CATCH-BASINS.

Nothing has been done this year to improve the old catch-basins. Superintendent Patten introduced a grate in place of the wooden covers formerly used where the basin entrance was through the curb; this combines the grate and curb entrance, and works well. The curbs used the first of the season were not cut with large enough entrance; the last lot was better.

In Lowell, all catch-basins are very carefully made, the walls being eight inches thick, and all spaces thoroughly filled; the inside face is then coated with cement, and great pains taken to make it thoroughly smooth, so as not

to furnish any place of deposit for decaying vegetable matter. As I have said in previous reports, greater care should be taken to preserve a perfect water seal for the catch-basins in a dry time by filling them occasionally from the hydrants.

#### AMOSKEAG CEMETERY.

A tract of land containing four and three-fourths acres has been purchased of F. D. Hanscom for an addition to the Amoskeag Cemetery. This tract of land, being cleared and lying nearly level, will only require the expense of turnpiking and graveling the avenues to make very handsome grounds, if proper care is taken of them afterwards. Heretofore the Amoskeag Cemetery has been free, so that there has been no committee or superintendent to look after it, although Mr. Newhall has acted as superintendent, and looked after the grounds free of expense to the city. Since the new grounds have been purchased it will be necessary to hire a superintendent to look after them, and a committee appointed to have the general management of them; also a treasurer to receive the money and make out the deeds. On account of the non-existence of any of these offices, I have not staked out any lots on the new grounds, although they were repeatedly called for early in the season. A plan has been prepared, showing the proposed avenues, and a section laid out into one hundred and two lots of various sizes, varying from ten to twenty feet square. This comprises about one-fourth of the area of the new purchase.

#### PINE GROVE CEMETERY.

As the general work will be fully reported by the committee in charge, I will only speak of the work that has been under my direction by the order of the committee. One hundred and eight lots have been laid out this year,

and the areas of one hundred and fifty-five lots computed, part in the lawn, part south of Netherland avenue between Highland and Linnet avenues. This section has been very nicely graded, graveled, and loamed by the superintendent. This will also be kept in lawn form subject to the same restrictions as the other, omitting the perpetual care fund, unless parties especially desire it. As it is now, it makes one of the finest tracts in the cemetery. The section at the southeast corner of Chessom and Highland avenues, which has been an unsightly and ever dangerous place, has been filled up, requiring about seven hundred and fifty cubic yards of earth; at the same time Highland avenue has been filled in its lowest part, and Chessom avenue cut down at its highest part, thereby making it very much less dangerous driving around the corner. The lots of Mrs. Richardson and Mr. Peter Farmer were at the same time graded down to conform with the change; in fact, the change of the grade of this section was made mainly at Mr. Farmer's request. The superintendent has also set one hundred and eighty stone bounds on the lawn, and fifty bricks for numbers for lots lately laid out, and graveled 1,810 feet of avenues. I am under standing orders from the committee to give the lines and grades of all paths and avenues where owners contemplate improvements, and to do what I can to straighten out existing irregularities and make the grounds more presentable. I have done what I could, and have succeeded very well in some places; but the work will not be a success so long as the committee permit any man who can get a contract to set curbing to do just as he sees fit without consulting any one. Parties buy an irregular shaped lot, and, desiring to put in curbing, they look at their lot and find that it is not square. Those who insist upon curbing at the present time are also so far behind the times that they think that every angle of the stone-work

must be a right angle. Many of them will say, "Exchange is no robbery; I will take a foot of that path, and give the city a foot at this corner of the avenue." Others will not take any from the paths or avenues, but will throw off twelve or eighteen inches at one corner. Now the result is, in walking through a three-foot path you will all at once fall over a stone post setting ten or twelve inches into the path; or, looking along the line of an avenue, it will look very much like the serrated edge of a splitting-saw. Other persons having a square lot will, for the sake of cheapness, employ unskilled workmen, who go to the lot, pull up the bounds and set the stone where they wish, always managing to get a part of one or more paths.

These are not imaginary sketches; every one of them has occurred in Pine Grove Cemetery this year. I consider the paths and avenues in the cemetery as much public property as any other highway, and should be as carefully preserved. I may give lines, the superintendent may order the work to conform to the lines, but we are both powerless unless backed by the committee. If the committee would issue notices that all persons putting curbing around their lots should conform to the lines of paths and avenues, and requiring all stone-cutters to set the curb upon the lines and nowhere else, then post the notices in the cemetery and in all stone-sheds where such work is done, and ask the stone-cutters to call the attention of such of their customers as wanted such work done, I think all such difficulties would soon be overcome, and the lot owners easily convinced of the greater beauty of the grounds and consequent increased value of their lots. I wish to say here that stone-curbing is obsolete. In other places there is more taken out throughout every year now than is put in.

In accordance with the order to purchase an addition to the cemetery on the north side, I was instructed to make a



survey of the lands of William S. Locke, E. C. Howlett, heirs of E. A. Straw, heirs of Benjamin Mitchell, and Waterman Smith, as far north as the proposed Mitchell street. This work has been done with the following result : —

Land of W. S. Locke, 6 acres, 100 rods, and  $123\frac{1}{2}$  square feet ; heirs of Benjamin Mitchell, one piece of 2 acres, 104 rods,  $76\frac{1}{3}$  square feet ; second piece, 46 rods, 85 square feet ; third, 6 acres, 106 rods,  $211\frac{1}{4}$  square feet ; E. C. Howlett, 10 acres, 6 rods, 149 square feet ; heirs of E. A. Straw, 14 acres, 10 rods, 52 square feet ; Waterman Smith, south of Mitchell street, 2 acres, 14 rods, 90 feet, — making a total area south of Mitchell street of 44 acres, 74 rods,  $192\frac{1}{2}$  feet.

The area of the proposed Mitchell street through land of Waterman Smith, 1 acre, 14 rods, 35 feet ; land of Mitchell heirs, 134 rods, 112 feet ; total area of Mitchell street, 1 acre, 148 rods, 147 feet.

Amount of Waterman Smith's land north of Mitchell street, 2 acres, 152 rods, 231 feet.

Total area surveyed, 47 acres, 50 rods, 76 feet.

This survey required the careful location of thirty-nine lines from old and imperfect deeds, and mostly through woods and underbrush.

#### VALLEY CEMETERY.

On the Pine-street side, a retaining-wall has been built from Auburn street 237 feet south ; also an iron fence 342 feet in length, and the sidewalk graded. On Valley street an iron fence has been built the entire width of the lot, 660 feet, the brush cut, old wooden fence removed, the sidewalk in the street cut down, and the lots in the cemetery terraced and turfed. The avenue running parallel to Valley street has been cut down on the summit eighteen inches, and the lots graded down accordingly.

## STREETS AND STREET LINES.

In my report for 1881, I made a statement in regard to the encroachments upon the streets and the difficulty of finding the street lines. My attention has been particularly called to this matter this year. That portion of the city lying between Wilson and Beacon streets from Hanover to Park street is a place where it has been impossible to give street lines from any record of streets or plans of lots in existence. A complete survey and plan have been made, and the street lines fixed thereon to fit the ground, to the best of my ability. Whenever I could bring the street within the ground now occupied by conforming strictly to plans and deeds, I have done so ; but in a large part of the district I have had to disregard all existing plans, in order to bring the streets upon the present reservations. For example, take the section between Merrimack and Laurel streets : The distance between these streets from Wilson to Hall street is five feet too great ; and from Hall to Beacon street ten feet greater than is called for by either deeds or plans of lots. Between Milton and Beacon streets on south side of Laurel street, the plans call for 253 feet, the deeds for 255 feet, there are actually inclosed 267 feet. The street lines, as I have fixed them, are 260 feet apart. Park street west of old Falls road through the Amoskeag Company's land is fifty feet wide, east of said road forty feet wide ; but the two parts of the street do not come together. In the north line there is an offset to the north of fifteen feet ; in the south line there is an offset to the north of twenty-five feet. This survey has been under way three years, being taken up whenever there was a half-day's leisure in the current work. All that is now needed is for the board of aldermen to accept the work.

On Merrimack street between Pine and Union streets,

south side, opposite the Second Baptist church, I had occasion to fix the street line, and found the fences two and a half feet into the street. On other streets I found buildings in the streets. On one where a suit is pending in regard to a street line, there are two lines that have been used by different surveyors, being only two inches apart, but the two inches will win or lose the case. I am getting these lines into shape as fast as possible; but being obliged to do it as part of the current work, and being scattered here and there wherever parties happen to want a line, it is not only slow work but very unsatisfactory, there being no connection between the surveys. It would be economy if the city would make an appropriation sufficient to put a party of three into the field and make an accurate survey of all the older portion of the city, and have the lines determined in the same manner as has been done on Wilson Hill. It would be economy in this way: At present it takes from half a day to a week to find the street line for parties about to build; if the lines were all fixed on plans, the same work could have been done in an hour or so, and consequently the current work of the office could be done with less help.

#### BRIDGES.

McGregor bridge and its approaches have been concreted, requiring 2,656.7 square yards. The bridge across the 'Squog river, Main street, has been thoroughly overhauled, the trusses straightened into position, the necessary repairs made, and a new truss placed under the center of the bridge, making it now perfectly safe. It has also been concreted, requiring 159 yards. The bridge on Wilson street has also been raised five feet. The east abutment of the bridge across Black brook, near the Goffstown line, having begun to fall in, it was deemed advisable to rebuild

it. This work has been done, and the bridge put in a good condition.

#### LANDS AND BUILDINGS.

I have done but little in this department this year, the new school-house buildings having been in other hands. All that I have looked after is the embankment wall around the Park-street hose-house, the grading of the Bakersville school lot, the partial grading of the Webster-street school lot, the survey of one acre of land purchased of George Porter for a gravel bank in District No. 7, and the repairs made in the city engineer's office. The office has been enlarged by the removal of two partitions, and other repairs made, thereby giving us more working space and much better light; and my thanks are due to this committee for the very generous manner in which my requests were granted.

#### MACADAMIZING.

The macadamizing this year has been the same as usual, trying to cover too much ground with the money. This method of doing the work will in a few years prove an expensive economy; but no improvement can be made without the expenditure of a little money to buy a screen for the crusher, and for heavier rollers. The screen is necessary in order to separate the stone into different sizes; then by spreading these different sizes in layers, largest at the bottom and fine on top, and giving the whole a thorough rolling with a fifteen-ton steam-roller, the result will be a much smoother, harder surface; and one that will wear four times as long as any that has been laid here yet. A comparison of streets built where a screen and steam-roller are used would very soon convince you of the advisability of a change. I had an opportunity to purchase a steam-roller this summer that had been used only three weeks, and was

as good as new, at a saving of \$1,200. This chance may still be open, and I hope the city government will consider the matter. This steam-roller will answer for several purposes. It has an attachment by which it can be used as an engine to run the crusher. The engine the city now uses never was large enough; was second hand when purchased, and is nearly worn out, costing a large amount each year to keep it in repair. The roller would take its place. There is also an attachment of picks to put upon the wheels of the roller, that by running it over the streets that need picking and repairing will do the work of twenty men on an earth road, or of forty men on streets that have been covered with broken stone. The streets where this material was first used are beginning to be badly worn, and soon must be built over. This machine is the only one that can do it as it should be done.

#### PAVING.

There has been an improvement in the manner of laying the pavement this year, as much greater care has been taken in assorting the stone, and making each course of uniform thickness; also in using a finer gravel for covering, making the filling between courses more solid. The square at the junction of Elm and Langdon streets, by the request of the mayor, was filled with a concrete of tar, pitch, and sand between the courses. The result of the experiment of course cannot be told at present. In many cities, and particularly in Cleveland, it is the custom to use asphaltum. This is, without doubt, the best packing where the pavements can remain undisturbed; but in a city like this, where the streets are continually being torn up for gas, water, and sewer connections and repairs, the difficulty in raising the pavements and getting them into place again, together with the additional cost, will more than counterbalance the advantage derived.

## SIDEWALKS.

A good work has been accomplished through the efforts of the mayor in getting some of the uneven sidewalks on Elm street relaid. Still more can be done if he will turn his attention to side streets, and cause some of the many encroachments in the shape of fences, steps, areas, and railings to be removed.

## WEATHER RECORD.

In December, 1882, at the request of the mayor, a weather record-book was commenced. Thermometer readings, direction of the wind, and state of the weather have been taken three times a day and recorded. As there were no barometer readings, and the work is designed especially for the use of the city government in certain cases, I will not make any report.

The work in the various highway districts during the year is as follows: —

## DISTRICT NO. 1.

ORISON WEBBER, SURVEYOR (6 MONTHS).

Turnpiked, 12 rods.  
 Graveled, 20 rods.  
 One water-bar at Mr. Chadwick's.  
 Rowell street, partly built.  
 General repairs where needed.

C. E. QUIMBY, SURVEYOR (6 MONTHS).

General repairs.  
 Rowell street, completed.  
 92 feet, 2' × 2' stone culvert. 18 feet of 6" Akron culvert.

## DISTRICT NO. 2.

JAMES PATTEN, SUPERINTENDENT.

## BLOCK PAVING.

Manchester street, west of Chestnut . . .	322.0 sq. yds.
Elm street, from Harrison to Langdon, full width, and Langdon to Sagamore, 3 feet each side of horse railroad track . . .	1,522.3 “
Washington street, Elm to Church . . .	282.0 “
	<hr/>
Total block paving . . . . .	2,126.3 sq. yds.

Manchester-street paving was commenced in the fall of 1882, and completed early this spring.

Elm-street paving was done by the city from Harrison to Brook street, and from Brook street to Sagamore the stone was furnished by the city, and the work by the Horse-Railroad Company.

## COBBLE PAVING.

Auburn street, Franklin to Canal . . .	922.0 sq. yds.
Auburn street, Elm to Canal, gutter . . .	101.0 “
Bridge street, Elm to Canal, gutter . . .	295.0 “
Central street, Elm to Chestnut, gutters . . .	507.0 “
Central street, Chestnut to Union . . .	297.0 “
Chestnut street, Pearl to Prospect . . .	661.0 “
Elm street, Harrison to Langdon . . .	337.4 “
Manchester street, Maple to Lincoln . . .	273.6 “
West Webster street, at Nathan Parker's . . .	139.0 “
	<hr/>
Total cobble paving . . . . .	3,533.0 sq. yds.

## MACADAMIZING.

Chestnut street, Pearl to Prospect street	. 2,647.6 sq. yds.
Central street, Elm to Chestnut street	. 1,773.3 "
Bridge street, Elm to Canal street	. 2,493.3 "
	<hr/>
Total macadamizing	. 6,914.2 sq. yds.

## STREETS GRAVELED.

Amherst street, Union to Belmont street	. 3,221 feet.
Beech street, Hanover to Auburn street	. 2,096 "
Birch street, Bridge to Lowell street	. 428 "
Cedar street, Pine to Union street	. 450 "
Central street, Franklin to Canal street	. 835 "
Central street, Chestnut to Union street	. 810 "
Chestnut street, Harrison to Pennacook street	875 "
Maple street, Arlington to Myrtle street	. 671 "
Maple street, Bridge to Lowell street	. 700 "
Myrtle street, Maple to Russell street	. 750 "
Nashua street, Bridge to Lowell street	. 783 "
Oak street, Harrison to Pearl street	. 1,071 "
Pearl street, Elm to Union street	. 1,423 "
Pennacook street, Chestnut to Pine street	. 312 "
Pine street, Auburn to Young street	. 1,855 "
Salmon street, Elm street to River road	. 745 "
Spruce street, Pine to Union street	. 450 "
Union street, Brook street to Hooksett road	. 1,530 "
Wilson street, south of Park street	. 1,500 "
	<hr/>
	20,505 feet.

## GRADED AND GRAVELED.

Concord street, Derry to Ashland street	. 362 feet.
Wilson road, Concord to Lowell street	. 300 "
Webster street, Elm to Union street	. 776 "



## GRADED AND NOT GRAVELED.

Hanover street, east of Wilson Hill	.	.	200 feet.
Wilson street, south of Park street	.	.	300 "
Smyth road	.	.	1,600 "
			<hr/>
			24,043 feet.

Equal to 4.56 miles.

Concord street from Wilson road to Ashland street required about 450 cubic yards of filling. Hanover street east of Wilson Hill required 200 feet of retaining-wall, 50 feet of culvert, and 900 cubic yards of filling. Wilson street south of Park, the bridge was raised and a filling of 260 cubic yards made. The grading of the northern extension of Pine street has been commenced, and a culvert containing 275 perches of stone built.

A culvert across Union street at Cemetery brook, containing 329 perches, was built by Warren Harvey, contractor. Sidewalks have been graded in all places where concrete pavement has been laid.

## CROSSINGS.

Stone, 4. Concrete, new, 35. Top-dressed, 23.

## CONCRETE.

Crossings, new	.	.	.	.	1,220.08 sq. yds.
Crossings, top-dressed	.	.	.	.	709.50 "
Sidewalks repaired	.	.	.	.	463.33 "
Battery building	.	.	.	.	74.56 "
Massabesic hose-house	.	.	.	.	126.80 "
Blodget-street school yard	.	.	.	.	189.51 "
Concord square	.	.	.	.	279.40 "
Park-street hose-house	.	.	.	.	151.57 "
Merrimack square, new	.	.	.	.	565.50 "
Merrimack square, top-dressed	.	.	.	.	149.00 "

McGregor bridge . . . . .	4,098.00	sq. yds.
Vine-street engine-house . . . . .	96.60	"
Webster-street school-yard . . . . .	267.30	"
	<hr/>	
Total concrete . . . . .	8,391.15	sq. yds.
Curb-stone set, 3,800 feet.		

## SEWERS AND DRAINS.

Akron pipe, 12 inch . . . . .	3,901	feet.
Akron pipe, 10 inch . . . . .	3,522	"
	<hr/>	
	7,423	feet.

Equal to 1.5 miles.

Eight-inch pipe used for catch-basin arms, not counted.

Catch-basins, 44. Manholes, 7. (See sewers.)

In addition to the street work of the district, Park square has been about two-thirds graded, but was not completed on account of the ground freezing up; and 500 cubic yards of sediment were taken out of Hanover pond.

## DISTRICT No. 3.

EDWIN N. BAKER, SURVEYOR.

The River road at Baker brook was widened 18 feet by filling the old drive through the brook and building a stone culvert, 2 × 2 opening, 18 feet long, and a sidewalk of 600 yards; also widened opposite E. L. Kennedy's land by filling an old ditch. Elm street graded from Shasta street to railroad bridge, and all culverts lengthened. Baker street widened and straightened from River road to Calef road, and all fences set back to new line. The River road at the south end of the district straightened by cutting away a hill. All culverts properly cleaned and repaired. Shasta street, Elm street to River road, partly graded; the street fenced both sides; 50 feet of 15-inch Akron pipe culvert built.

Bakersville school lot graded, covered with clay, and 400 loads of loam taken from Shasta street put on, and the lot sown with grass seed.

All general repairs carefully attended to.

Nutt road widened, graded and graveled. This last work was done by contract.

#### DISTRICT NO. 4.

R. N. WHITTEMORE, SURVEYOR.

Graveled, 125 rods.

Road-bed, from the Webster place south three-fourths of a mile, widened, requiring in some places a fill of 12 feet in depth and 15 feet in width, and using 1,500 cubic yards of earth. A wooden rail built the entire length. One stone watering-trough at Webster's spring, requiring 40 feet of 12-inch Akron pipe. Culvert bridge at Cheney brook, abutments relaid and bridge planked. The hill at Mr. Fox's cut down two feet. Road widened and straightened the length of Whittemore's farm.

The hill at Little Cohas brook graded down four feet, and road-bed widened from 12 feet to 30 feet.

#### DISTRICT NO. 5.

W. W. DICKEY, SURVEYOR.

Graveled, 198 rods.

Turnpiked, 108 rods.

Culverts, 2.

Bridges replanked, 2.

Brushes cut along sides of road, 6 miles. Roads kept free from cobbles, and general repairs made where needed.

#### DISTRICT NO. 6.

DANIEL H. DICKEY, SURVEYOR.

No report.

## DISTRICT NO. 7.

CHARLES FRANCIS, SURVEYOR.

Graded and graveled, 152 rods.

1 stone culvert,  $2' \times 1' \times 82'$ .1 stone culvert.  $2' \times 1.5' \times 54$  feet.

Drains taken up and cleaned, 80 feet.

Gutter and sidewalks, 30 rods.

Massabesic-street fences put on street line from Belmont street to C. &amp; P. R. R., 35 rods.

Brush cut, cobbles removed, and general repairs made where needed.

## DISTRICT NO. 8.

EUGENE F. WILSON, SURVEYOR.

GRADED.

Hanover and Park street extension, east from junction.

Two short streets east and west of Robert Stevens's.

New street built by L. Proctor, southeast of Hanover.

The hill at school-house in Youngsville.

The hill at Charles Brown's place.

The hill by E. F. Wilson's.

A part of Bridge street.

Five culverts rebuilt. One-fourth mile bushes cut.

General repairs where needed.

## DISTRICT NO. 9.

JABEZ J. GARMON, SURVEYOR.

Turnpiked, 3-4 of a mile.

Graveled, 1 mile.

Bushes cut, 3 miles.

Culvert on Blodgett road,  $16'' \times 20''$ , extended 10 feet.Culvert on Old Derry road,  $1' \times 1'$ , extended 12 feet.

Grading, about 20 cubic yards.

General repairs.

Mr. Garmon reports that most of the highways are too narrow, and suggests that more money is needed to make them of proper width.

### DISTRICT NO. 10.

WILLIAM N. CHAMBERLAIN, SUPERINTENDENT.

#### PAVING.

Cobble each side H. R. R. from Mast to Milford street . . . . .	406.7 sq. yds.
Cobble gutters . . . . .	1,253.9 "
	<hr/>
Total cobble . . . . .	1,660.6 sq. yds.

#### CONCRETE.

One crossing, new . . . . .	40.0 sq. yds.
Three crossings, top-dressed . . . . .	68.3 "
Hose-house walk, top-dressed . . . . .	57.6 "
'Squog-river bridge . . . . .	253.3 "
	<hr/>
Total concrete . . . . .	419.2 sq. yds.

#### GRADING.

Beaumont street . . . . .	60.0 cu. yds.
Main-street walks . . . . .	90.0 "
Milford street widening . . . . .	100.0 "
Goffstown road . . . . .	1,000.0 "
Wilkin street . . . . .	1,000.0 "
School and Shirley streets . . . . .	627.5 "
	<hr/>
Total grading . . . . .	2,877.5 cu. yds.

The above does not include Parker street, which has been graded, and graveled from Main street to Parker avenue, retaining-walls and sidewalks built, and gutters put in.

This piece of work has been finished in the most thorough and workmanlike manner of any new street that has been built for several years.

Curb-stone set, 64 feet.

RETAINING-WALLS.

Parker street . . . . .	31.0 perches.
Main street . . . . .	6.2 “
Mast street . . . . .	30.0 “
	<hr/>
Total . . . . .	67.2 perches.

FENCING.

Iron railing, Parker street . . . . .	144 feet.
Iron railing, Main street . . . . .	67 “
Iron railing, Milford street . . . . .	6 “
Wood railing, Milford street . . . . .	150 “
Wood railing, Mast street . . . . .	80 “
Wood railing, Putnam street . . . . .	75 “
Wood railing, River road . . . . .	100 “
	<hr/>
Total fencing . . . . .	622 feet.

SEWERS.

Akron, 15 inch . . . . .	2,148 feet.
Akron, 12 inch . . . . .	1,504 “
Akron, 10 inch . . . . .	2,097 “
Akron, 4 inch . . . . .	75 “
	<hr/>
Total sewers . . . . .	5,819 feet.

Eight-inch pipe used for catch-basin arms, not counted.

Catch-basins built, 30.

Manholes built, 10.

## DISTRICT NO. 11.

JAMES E. BAILEY, SURVEYOR.

Turnpiked, 1 1-2 miles.

Macadamized, 3,276 square yards.

Graveled, 2,978 square yards.

Black-brook bridge abutment, 53 3-4 perches.

Farmer bridge re-planked, 44'  $\times$  16'.

General repairs attended to.

One stone culvert, 48'  $\times$  2'  $\times$  2'.

Eight water-bars built of broken stone.

The macadam, so called, of this district is simply a covering of stone chips placed in the roadway instead of gravel, the road-bed not being prepared in any way, nor the surface rolled except by the usual traffic.

## DISTRICT NO. 12.

JEREMIAH GARVIN, SURVEYOR.

Turnpiked, Hooksett road . . . . . 1 1-4 miles.

Graveled . . . . . 1-2 "

Bushes cut . . . . . 2 "

General repairs.

## DISTRICT NO. 13.

JOHN S. CAMPBELL, SURVEYOR.

No report.

I hope before many years to see all these highway districts done away with, and the whole city under one superintendent, who shall be governed by the city government, committee, or commissioners appointed for this purpose. I believe that the work can be done better and more economically in this than in any other way. For the one superintendent will naturally have his men divided into gangs each

of which will be familiar with a certain class of work ; for instance, one gang will be pavers, one sewer-layers, one graders, one gravelers, etc. Each gang can be sent to any part of the city where their special work is needed, and can do it better and more quickly than green men can.

Respectfully submitted.

GEORGE H. ALLEN,

*City Engineer.*



REPORT

OF THE

JOINT STANDING COMMITTEE ON CLAIMS.



# REPORT

OF THE

## JOINT STANDING COMMITTEE ON CLAIMS.

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

Owing to the severe and protracted illness of Capt. William R. Patten, city solicitor for the past year, very little has been done in the matter of the trial of suits against the city.

The following actions are now pending in the supreme court for the county of Hillsborough, the greater part of which will be disposed of at the March term, 1884, of said court:—

SIMON CLARK, ADMR., *vs.* CITY OF MANCHESTER.

William Clark, aged three years and nine months, on the 27th of September, 1879, fell into the reservoir on Douglas street and was drowned, and this suit was brought by Simon Clark, Admr., to recover damages.

SARAH DAVIS *vs.* CITY OF MANCHESTER.

This action was tried at the January term, 1882, of the supreme court, and a verdict for \$2,000 was returned in favor of the plaintiff.

Exceptions were taken by the defendant's counsel, and the case was reserved. At the December law term, 1882, the verdict was set aside, and a new trial will undoubtedly

be had at the next March term. Able counsel have been retained by the city and new evidence discovered, and the defendants go to trial confidently expecting a favorable verdict.

ADELINE GEOFFREY *vs.* CITY OF MANCHESTER.

This is a suit brought to recover damages on account of falling, caused by defective highway. The accident occurred in June, 1882, in front of Wells' block on Elm street. Damages claimed, \$1,000.

At the last term of said court the following cases were entered against the city and continued until the March term: —

M. L. CLEMENTINE GAGNON *vs.* CITY OF MANCHESTER.

This suit is brought to recover \$1,000 damages for personal injuries caused by falling on Bridge street.

MARY FRAIN *vs.* CITY OF MANCHESTER.

Claim for \$1,000 damages on account of personal injuries caused by falling on Chestnut street.

DOLPHUS BENOIT *vs.* CITY OF MANCHESTER.

Claim for damages caused by falling on Elm street.

MARY CARNEY *vs.* CITY OF MANCHESTER.

Claim for \$1,000 damages. Injury to person caused by falling on Manchester street opposite the Battery building.

The following cases were entered at the January and May terms, 1883, and continued to the March term, 1884, on account of the inability of the solicitor to be in attendance:—

HANNAH BURPEE *vs.* CITY OF MANCHESTER.

Suit brought to recover damages on account of personal injuries caused by falling on Hanover street, February 15, 1882.

MARY A. PATTEN *vs.* CITY OF MANCHESTER.

Suit brought to recover \$2,000 damages, for injury to person caused by falling on Elm street near No. 1245, February 14, 1882.

CAROLINE M. DAVIS *vs.* CITY OF MANCHESTER.

This is a suit brought to recover damages for injury to person caused by falling on sidewalk.

TIMOTHY CARR *vs.* CITY OF MANCHESTER.

Suit brought to recover \$2,000 damages caused by changing grade on Cedar street so that water flowed into plaintiff's cellar.

MARGARET KENNEY *vs.* CITY OF MANCHESTER.

Suit brought to recover damages for personal injuries caused by being thrown from team, the same being overturned by catching in horse-railroad track.

ANNIE H. KENNEY *vs.* CITY OF MANCHESTER.

Suit for damages caused at the same time and place as preceding case.

BENJAMIN F. MERRILL *vs.* CITY OF MANCHESTER.

Suit for damages for personal injuries and damage to team at the same time and place as last two cases.

T. M. CONANT *vs.* CITY OF MANCHESTER.

Suit brought to recover balance of pay for work in 1878. The amount claimed is \$601.50.

During the past year the suit of Marcus P. Norton and assignee, etc., and Benjamin Richardson *vs.* the city of Manchester has been disposed of by the trial of a test case in the United States circuit court, which case was decided in favor of the defendant, and this suit against the city of Manchester was carried no further.

The solicitor, Capt. W. R. Patten, personally attended and assisted in the trial of the test case at Portsmouth.

The suit of John B. Clarke *vs.* the City, for \$2,000 damages caused by coming in contact with the horse-railroad track at a point claimed to have been defective, has been dropped, a settlement having been made by Col. Clarke and ex-Gov. Smyth on behalf of the horse-railroad.

The joint standing committee on claims have held twenty-four meetings during the year, and taken action on the following claims : —

JOHN W. DRISCOLL.

Claim for \$54.85 damages on account of personal injuries received by falling on the north side of Bridge street. Mr. Driscoll failing to file notice of claim within the prescribed time was given leave to withdraw. Upon petition to the supreme court he was given leave to file claim, which he has done, and brought suit returnable at the March term of said court.

CLEMENTINE GAGNON.

Claim \$1,000 damages for falling on Bridge street.

Upon a hearing before the committee, she was given leave to withdraw her claim.

Suit was brought in this case, and entered September term, 1883.

GEORGE P. ATWELL.

Claim for \$321, for work on soldiers' monument.

Given leave to withdraw, claim being previously paid.

J. B. ELLINWOOD.

Claim for \$200, for injuries received by falling on Hanover street.

Claim allowed.

## CATHERINE HAYES.

Claim \$2,000, for injuries received by falling on Park street.

Given leave to withdraw.

## THOMAS S. HARTFORD.

Claim \$350 damages, for injuries received by falling on Elm street, corner Central.

Given leave to withdraw.

## ISAAC A. WYMAN.

Claim of \$1,500, for damages received by falling on Elm street.

Allowed \$110, in full.

## ELLEN GILMARTIN.

Claim \$500. Injuries received by falling on south side of Spruce street.

## MARY FRAIN.

Claim \$1,000 damages, for falling on Chestnut street.

Given leave to withdraw.

Suit was brought on above claim, and entered September term, 1883, supreme court.

## JOHN M. RYAN.

Claim \$1,000 damages, falling on Chestnut street.

Leave given to withdraw claim.

## P. C. AHEARN.

Claim \$20, for damage to sleigh caused by obstruction in Lowell back street.

Given leave to withdraw.

## GEORGE F. ROBIE.

Claim \$2,000. Injuries received by falling on Elm street front of city hall.

Given leave to withdraw.

## D. W. BATCHELDER.

Claim \$15, for damage to sleigh.

Allowed \$15.

## S. T. HILL.

Claim \$185.70. balance due over settlement of account as tax collector for 1877 and 1878.

This claim was submitted to a board of arbitrators, consisting of Daniel W. Lane, David F. Clark, and Harrison D. Lord, and several hearings have been had. In December last a majority report was made to the city government, which was in favor of the city. Unless this report is accepted by Mr. Hill, it will be returned to the supreme court and judgment issued thereon.

## MARY CARNEY.

Claim \$1,000. Injury caused by falling on Manchester street.

Given leave to withdraw.

Suit has been brought on this claim entered in supreme court, September term, 1883.

## MARY E. TEWKSBURY.

Claim \$500, damages received by falling on Market street.

Allowed \$100.

## HANNAH GORMAN.

Claim \$2,000. Injuries received by falling on Hanover street.

Given leave to withdraw.



## DR. JAMES G. STURGIS.

Claim \$100, for damage to carriage.  
Allowed \$50.

## MARY WALSH.

Claim \$200. Injury to person by falling on Park street  
near Chestnut.  
Allowed \$100.

## DR. JAMES SULLIVAN.

Claim for professional services rendered at the fire of  
June 27, 1882.  
Allowed \$15.

## FLORA J. BROWNE.

Claim for damages received by falling on Union street  
at head of High.  
Given leave to withdraw.

## HENRY W. CLARK.

Claim for \$150 bounty.  
Allowed.

## GEORGE W. NEWELL &amp; Co.

Claim \$21.90 damages to team, horse being frightened  
by blasting in 'Squog.  
Given leave to withdraw.

## SARAH E. SWETT.

Claim for damages, falling on Hanover street.  
Allowed \$150.

## NOAH B. REED.

Damage to horse.  
Given leave to withdraw.

## HENRY BROOKS.

Damages claimed on account of falling into canal on Bridge street.

Given leave to withdraw.

## SAMUEL W. DUNBAR.

Claim \$100 damages to horse caused by falling into a cess-pool.

Allowed \$100.

## J. W. CONANT.

Claim for damages on account of falling on Center street in 1879.

Allowed \$350.

In all claims brought before this committee we have striven to give all sides a fair and impartial hearing. We have never considered whether the city could evade by legal technicalities or money power the payment of any of these claims, but we have in each and every case sought to do justice regardless of parties.

We have been greatly assisted in our duties by the able efforts of Officer Charles H. Reed. The concise and reliable reports which he has made to us have facilitated our investigations, and aided us very materially in forming our decisions.

CHARLES H. G. FOSS,  
J. F. CLOUGH,  
GEORGE W. PRESCOTT,  
GEORGE M. TRUE,  
H. W. RANDALL,

*Joint Standing Committee on Claims.*

REPORT  
OF THE  
SCHOOL COMMITTEE.



# SCHOOL DEPARTMENT.

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## ORGANIZATION FOR 1883.

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### SCHOOL COMMITTEE.

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

JOHN A. McCRILLIS,

President of the Common Council, *ex officio*.

Ward 1. — Frank T. E. Richardson, Perry H. Dow.

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

Ward 3. — Henry H. Huse, Nathan P. Hunt.

Ward 4. — John T. Fauning, Samuel D. Lord.

Ward 5. — Charles A. O'Connor, Thomas F. Collins.

Ward 6. — D. Milton Goodwin, Jacob C. Abbott.

Ward 7. — George D. Towne, Edwin F. Jones.

Ward 8. — Louis E. Phelps, Douglas Mitchell.

### PRESIDENT OF THE BOARD.

HENRY H. HUSE.

### CLERK OF SCHOOL COMMITTEE.

FRANK T. E. RICHARDSON.

### SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

TRUANT OFFICER.

HORATIO W. LONGA.

STANDING COMMITTEES.

*Finance.* — The Mayor, Messrs. Lord, McCrillis, Fanning, Richardson.

*Salaries.* — Messrs. Phelps, Huse, Goodwin.

*Repairs, Furniture, and Supplies.* — Messrs. Dow, Fanning, Goodwin.

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

*Drawing.* — Messrs. Dow, Fanning, Mitchell.

*Music.* — Messrs. Richardson, Huse, Lord.

*Fuel and Heating.* — Mr. Huse, the Mayor, Messrs. Abbott, Phelps, McCrillis.

*Examination of Teachers.* — Messrs. Hunt, Dean, Clarke.

*Attendance.* — Messrs. Mitchell, Collins, Towne.

*Sanitary.* — Messrs. Towne, O'Connor, Jones.

SUB-COMMITTEES.

*High School.* — Messrs. Fanning, Huse, Dean, Hunt, O'Connor.

*Ash and Bridge Streets.* — Messrs. Dean, Hunt, Clarke.

*Lincoln Street.* — Messrs. Fanning, Goodwin, Lord.

*Spring Street.* — Messrs. Richardson, Jones, Dow.

*Franklin Street.* — Messrs. Towne, Collins, Abbott.

*Lowell Street.* — Messrs. Lord, Jones, Abbott.

*Manchester Street.* — Messrs. O'Connor, Richardson, Huse.

*Training School, Merrimack Street, and Wilson Hill.* — Messrs. Hunt, Huse, Phelps.

*Beech Street.* — Messrs. Collins, Mitchell, Richardson.

*Piscataquog Grammar.* — Messrs. Phelps, Mitchell, Dean.

*Center and South-Main Streets.* — Messrs. Mitchell, Phelps, Dow.

*Amoskeag, Blodget Street, Webster Street, and Stark District.* — Messrs. Clarke, Jones, Lord.

*Bakersville and Hallsville.* — Messrs. Dow, O'Connor, Abbott.

*Goffe's Falls and Harvey District.* — Messrs. Goodwin, Towne, O'Connor.

*Mosquito Pond, Webster's Mills, and Youngsville.* — Messrs. Abbott, Goodwin, Towne.

*Evening Schools.* — Messrs. Jones, Clarke, Collins.





REPORT  
OF THE  
SCHOOL COMMITTEE.

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*To the City Councils : —*

GENTLEMEN, — The Board of School Committee respectfully present their report for the year ending December 31, 1883, as follows : —

Three thousand pupils and three hundred and twenty-five thousand dollars' worth of school property have received the attention of the School Committee during the past year. No epidemic has prevented regular sessions in any school, with one exception, in the suburban school at Hallsville. In this single exception a committee of examining physicians found no cause for the origin of the few cases of diphtheritic sore throat and diphtheria, in or about the school building.

No serious loss or accident has happened to the school property during the year. The committee has held regular monthly sessions during the year, and has had occasion to hold five special sessions.

The general method of training pursued in the several departments of our school system has continued, as wisely arranged by our immediate predecessors, and the creditable results attained in the year now ending is certainly a matter of gratulation.

The arrangement of terms and vacations in the year 1883 has been :—

Winter term, 11 1-2 weeks, Jan. 3 to March 23. (3 weeks vacation.)

Spring term, 11 weeks, April 16, to June 29. (10 weeks vacation.)

Fall term, 15 weeks, Sept. 10 to Dec. 21. (2 weeks vacation.)

#### TRAINING SCHOOL.

The Training-School department in our city school system was established several years since, with wise forethought, to supplement already accomplished work in systematizing courses of study by further systematizing methods of instruction.

Our corps of primary teachers is now recruited chiefly from among graduates of our Training School, and it is the intention of the sub-committee of the Training School, that the teachers entering into the works of our primary grades from the training class shall come possessed of all the advantages that skilled training can give.

We are already receiving benefits from the early training in this department, and they are gradually becoming more and more far-reaching in good results, as the system of teaching becomes more and more harmonious through the progressive stages from the primary to the high school grades.

We are confident that this line of preparatory work is theoretically in the right direction, and that the good practical results already attained warrant us in extending our hearty sympathy and support to training-school work as the best initiative to systematic and harmonious progress in all classes nucleizing in the high school.

At the opening of the fall term of the present year the Training School was transferred from the Franklin-street building to the school-house on the corner of Merrimack and Union streets, where it has superior facilities for its line of work.

The principal of the Training School, assisted by the training class, is now performing regular school work that would otherwise require four regular teachers.

#### GRADED SCHOOLS.

There have been ten resignations during the year. It is a matter of regret to lose even a small per cent of those who have been faithful and successful workers.

The loss of an efficient principal from the Ash-street house, and the transfer of the Training School to the Merrimack-street building, made advisable the change of positions of several teachers during the year, to restore equilibrium of school work thereby disturbed, as will appear by the list of teachers hereto appended.

All the primary, middle, and grammar grades are now working successfully under the general supervision of our faithful and indefatigable superintendent.

#### HIGH SCHOOL.

A comparison of the courses of high-school studies in the leading schools of New England and the Middle States shows that there is a great similarity in their plans of work. In this general plan we may claim a place for our school in the front rank, and we do claim that the work accomplished here has been quite successful. There is, nevertheless, a muttering of discontent respecting a portion of the results of high-school work in the older cities, and we are aware that it finds echo to some extent in our city.

As a rule, we find that those most familiar with our High School, and who visit oftenest the classes, are those who

commend most freely the methods practiced and results achieved there.

We have at present a high school that can stand well the test of comparison with the best class of high schools in American cities, and our graduates who have subsequently taken examinations for higher academic studies have generally been found well prepared.

While our High School has been graduating a large number of pupils well fitted to pursue collegiate studies in the ancient classics, the sub-committee has thought it advisable to draw the attention of a larger share of the talent there developing from Platonian to modern philosophy, to the claims of skilled artisanship, and to the value of the application of mental training to practical business life.

It is in this line that wealth is chiefly created in mechanical centers, and through this line Manchester has had its great prosperity; and in this line there is now the brightest outlook ahead for the majority of youths that have talent, energy, and ambition.

To this end the committee, with the valuable assistance of the superintendent, has prepared a new course of study for the High School, which is herewith submitted for the information of the city councils and the general public. The new course presents: —

*First*, a carefully prepared line of study for a thorough English education for two, three, or four years' attendance, according to the time given.

*Second*, a carefully prepared line of study for those desiring to prepare themselves in our own public schools for future skilled artisanship, or for entering technical schools for advanced studies, and includes enough of the French language to give the students command of writings of the nation which has taken the lead in theoretical knowledge and technical skill.

*Third*, a combined English and Latin course.

*Fourth*, a carefully prepared line of classical study for those desiring to pursue advanced academic studies in the college of our State or elsewhere.

The courses of study here presented are carefully culled foundation materials, upon which each pupil of the High School is to build his future mental structure, but the weakness or solidity of each foundation will depend upon the disposition and efforts of the pupil under the guiding hand and inspiring influence of his teacher.

In the arrangement of the courses there have been first considered the needs of those whose pupillary studies are to close with their high-school graduation, but the courses are none the less good preparatory work for those who will follow studious inclinations to any practical or theoretical ends, or even to the most refined limits of culture; and the courses are intended to be in harmony with the theory that a loving study of the material forces and wonderful perfections fashioned by the Great Author develops a high order of both wisdom and culture, as the loving study of his spiritual teachings develops the highest order of goodness.

#### PUBLIC EXERCISES.

The fourth annual elocutionary contest for the Clarke prizes occurred in Smyth's hall, January 24, 1883, on which occasion the following-named eminent persons acted as a board of judges:—

Rev. Josiah G. Davis, D. D., of Amherst, N. H.; Rev. C. F. P. Bancroft of Andover, Mass.; Hon. Daniel Barnard of Franklin, N. H.; Hon. John D. Lyman of Exeter, N. H.

The prizes offered were \$13, \$11, \$9, and \$7 to the best four speakers in the order of their merit, and \$5 each to the most meritorious of the remaining contestants from the four

schools represented, one prize to each school, making the total amount of prizes offered \$60.

The High School, Lincoln, Franklin, and Ash-street schools were represented by four contestants each.

The first prizes of the two series were awarded to Mr. John F. Robinson of the High School and Miss Blanche C. Sargent of the Lincoln School, respectively.

The High School received the first and third prizes of the first series, and the third prize of the second series.

The Lincoln School received the first prize of the second series.

The Ash-street School received the second of the first, and the second of the second series of prizes.

The Franklin School received the fourth prize of each series.

The high and grammar schools gave unitedly, in Smyth's hall, a musical festival at the close of the spring term, under the direction of the special teacher of music. This festival, with a chorus of four hundred and fifty voices, took the place of the usual school exhibitions in the high and grammar school buildings. The program of nineteen selections introduced a wide variety of styles of vocal music, and its successful execution displayed a very fair proficiency in the various renderings.

The graduating exercises of the High-School class of '83 occurred at the close of the spring term, June 28, in the Manchester Opera House, before a large audience, who expressed freely their appreciation of the meritorious efforts of the graduates.

These special exercises of the year have rarely been equaled in merit by the public efforts of our pupils.

#### SCHOOL ACCOMMODATIONS.

The city has twenty-five school buildings, and one additional building at Bakersville now just finished at a cost of

about eleven thousand dollars. In these buildings there are eighty-nine school-rooms and five halls.

During the fall term seventy teachers and one special teacher of music were employed, and the special teacher of drawing completed his course during the same period. We have had two principal and thirteen assistant teachers in the evening schools.

The attendance in the public schools during the year has been : —

SCHOOLS.	Whole Number of different pupils		Average No. Belonging.	Average Daily Attendance.	Per cent of Daily Attendance.
	Boys.	Girls.			
High .....	72	97	159	153	96.2
Grammar .....	374	402	677	637	94.1
Middle .....	328	334	526	479	91.1
Primary .....	1105	976	1249	1135	90.9
Suburban .....	182	192	237	208	87.8
<b>Totals .....</b>	<b>2061</b>	<b>2001</b>	<b>2848</b>	<b>2612</b>	<b>92.0</b>

## ANNUAL STATISTICS OF PUBLIC SCHOOL ATTENDANCE.

	Whole No. Enrolled in Public Schools.	Whole Number Belonging.		Average Number Belonging.	Average Daily At- tendance.	Percentage of Daily Attendance.	Average Attendance at Evening Schools.	No. Graduated from Grammar Schools.	No. Graduated from High School.	Average No. Teach- ers Employed.
		Boys.	Girls.							
1870.....					1987					
1871.....					1911					
1872.....					2110					
1873.....					2284					
1874.....					2318					
1875.....					2295					
1876.....					2379					
1877.....	3607	1840	1767	2 71	2413	93.8	96	76	38	70
1878.....	3515	1783	1732	2571	2348	91.3	106	89	47	70
1879.....	3798	1924	1874	2859	2648	92.6	145	77	48	71
1880.....	4136	2166	1970	2970	2727	92.0	91	75	38	77
1881.....	4235	2200	2035	2858	2602	91.0	110	62	39	75
1882.....	4095	2086	2009	2957	2712	91.7	164	72	53	73
1883.....	4062	2061	2001	2848	2612	91.4	103	97	27	71

The number of pupils enrolled in the public schools is 4,062.

The average attendance during the year in private schools has been :—

In Irish parochial schools . . . . .	1,475
In French parochial schools . . . . .	450
In French private schools . . . . .	120
In American private schools . . . . .	50

## DRAWING.

More substantial progress has been made in drawing by the pupils during the present year than in any previous



year, and the majority of the teachers have entered more heartily into the work than heretofore. This branch of school work has become one of the most important essentials, and is more appreciated as its object and scope become better known. As a language, it finds daily use in all the activities and culture of the higher civilization, from the bench of the skillful mechanic to the easel of the artist, and often covers a field that oral language might never reach. Without drawing, our most valuable machines would never have been perfected; without drawing, the exalted conception of the Sistine Madonna would never have been expressed for the delight of many generations; nay, more, without the disciplined training by aid of the pencil, the conception would have been impossible; without the technical application of drawing and artistic culture, our Manchester mills might long ago have glutted the market with sheetings and jeans instead of enlarging their market and enlarging the profits by varying and beautifying their productions. The structures, machinery, and manufactures most admired in every city are those that present results of the most skillful draughting.

The committee on drawing of the year 1882, appreciating the value of this branch of school work, believed the time had then come to place the exercise in the immediate care and under the immediate responsibility of the regular teachers, and presented at a special meeting of the school committee their carefully considered plan tending to this end, with the hope and belief that valuable advantages would accrue to the schools, and that there would also result a considerable saving in annual expense for a special teacher.

Their plan of a special course of preparation of the teachers for this work, suggested as the most prompt and economical way of accomplishing the desired change, was

heartily approved and inaugurated, and it has been the duty of the present year to supervise the work of completing the change.

The course of training given the teachers, and such pupils as desired to attend, was similar to that given teachers who take certificates from the Massachusetts Normal Art School at Boston, and the lectures and examinations were conducted by Mr. W. F. Brackett, an instructor and one of the board of examiners in the Massachusetts Normal Art School.

The course has occupied the Saturdays of the school weeks during nearly a year, closing on the 24th of November, 1883.

The committee on drawing of the present year report that they have supervised the special course and have examined the work of each teacher from time to time with much interest.

The earliest work of the special course not only developed plainly where there had been previous incompetency in drawing and lack of interest in this branch of education, but gave gratifying evidence to the committee that some of the teachers had previously prepared themselves with care for the work. A few of the teachers were fully prepared when the course commenced to make any drawings and pass the examinations required to take the certificate.

It became necessary for the committee to excuse a few teachers from attendance on account of ill health and High-School teachers were excused also

The commendable interest of a large number of our teachers in the drawing exercises was shown in their careful and persistent work through the course, and their successful completion of all the drawings and examinations included in the course, and it was with regret that the committee observed that generally the ones who failed to per-

severe in the course were the same who had been most incompetent at its inauguration, and needed most its training.

The standing committee on drawing report that they have granted certificates of satisfactory completion of all drawings and examinations, as follows:—

## DRAWING CERTIFICATES.

*Primary and Middle School Certificates.*

Nancy S. Bunton.	Gertrude H. Brooks.
Jennie F. Bailey.	Nellie M. James.
Augusta S. Downs.	Carrie M. Gilmore.
Della E. Haines.	S. Izetta Locke.
Alice G. Lord.	Mary W. Mitchell.
Olive A. Rowe.	Flora M. Senter.
Nellie I. Sanderson.	Carrie I. Stearns.
Helen F. Wetherbee.	Clara E. Woods.
Susie G. Woodman.	

*Grammar School Certificates.*

C. Augusta Abbott.	Nettie F. Ainsworth.
Mary F. Barnes.	Maria N. Bower.
Mary E. Bunton.	Ella F. Barker.
Etta J. Carley.	Cora M. Dearborn.
Bertha L. Dean.	Belle R. Daniels.
Lucia E. Esty.	Susie H. Frame.
Mary L. Gage.	Annie O. Heath.
Ella Hope.	Fannie D. Moulton.
Grace Mitchell.	Emma M. Rowley.
Cora F. Sanborn.	Ella F. Sanborn.
Mary A. Smith.	

## EVENING SCHOOLS.

Two evening schools have held regular sessions since the 15th of October.

The school in the Spring-street building has had one principal and eight assistant teachers, while the school in the Center-street building has had one principal and five assistant teachers.

A large majority of the attendants at the evening schools are earnest pupils, who appreciate the opportunities thus given.

The present evening schools cover a hitherto unreached field of work among adults, in imparting the rudiments of an English education.

The importance of this work must not be overlooked, nor the schools fail of hearty support.

The average attendance in the evening schools has been :

In October,	boys, 101 ;	girls, 69 ;	total, 170
November,	“ 88 ;	“ 69 ;	“ 157
December,	“ 75 ;	“ 56 ;	“ 131
			458

The nationalities of the pupils have been : —

Americans	. . . . .	62, or 15 per cent.
Irish	. . . . .	99, “ 23 “
Germans	. . . . .	58, “ 14 “
French	. . . . .	134, “ 32 “
Swedes	. . . . .	68, “ 16 “

## INDUSTRIAL EDUCATION.

This is a subject so important and far-reaching that the writer approaches it with regret that its discussion must be quite limited in this report.

The financial standing of our city does and must depend

largely upon the acquirements and improved quality of productions of its skilled artisans here employed, and so long as our schools fail to furnish abundantly the best talent required, our great educational need will continue to be the training of young men in expert mechanics, processes, and arts. To this end we must prepare a goodly share of our graduating pupils to reason, to investigate, to originate, to become familiar with qualities of natural products and their common uses, to become familiar with the forces of nature and the laws of mechanics.

When boys have been first trained to systematic thought and accurate observation, the time required for acquirement of the skillful use of tools and machines by them is very much shortened, and the young mechanics, working brains and hands in unison, will soon outrank the older mechanics whose brains shrink from activity, and the products of their labor will have enhanced value from the assistance of their reasoning powers.

Those shops and mills where active brains have influence will be prepared with newly originated attractions, new improvements, and new processes for the market before it is overglutted with their older productions.

One result of the gradual failure of the apprenticeship system, which produced our best mechanics of twenty and more years ago, is the dividing of our modern mechanics more perceptibly into two classes, which may be distinguished as those who *think* and those who *toil*. The enthusiastic thinkers who thus ennoble their work are uniformly cheerful and industrious, while unthoughtful toil broods discontent.

It is a pity to let any of our pupils go out of our schools and beyond their helpful influence until their brains have received sufficient stimulus from perception and knowledge, and sufficient impetus, to prevent them from tending to a

kind of torpor and machine-like routine under the influence of daily labor ; yet many bright youths do of necessity drop out of the schools before they are mentally prepared to accomplish good work in their struggles for a livelihood.

There are many of these last that might be materially aided in evening classes specially adapted to their needs, where they might be taught all that comes within the province of the class-room pertaining to mechanics, the nature and uses of material, the applications of mechanical powers, and their interest awakened to the best methods of accomplishing ordinary mechanical and technical results.

The present course of drawing in the public schools is admirable preliminary work for such technical and industrial classes, and the skill already acquired in drawing would thus be given practical application and its value demonstrated.

The writer is not yet prepared to advocate the introduction of mechanical tools into any portion of our regular school work, as is in practice to some extent in several cities, nor to curtail the present line of mental development ; but he believes the city may accomplish great educational good for a part of our pupils, at least, with a very moderate expenditure of money in the direction thus outlined. This work, he believes, should be supplementary to the regular school work, and would be especially helpful to those who are unable to avail themselves of the advantages of the High School.

If technical education is thus offered to the graduates of the grammar schools at the outset, it will soon awaken interest and anticipations in lower grades, and in time advance to give assistance to high-school graduates such as they now have to seek elsewhere.

Leading educators, recognizing that the financial standing of a nation among nations is exalted or debased as the

skill of its artisans and agriculturists is elevated or depressed, are agitating the question of technical and industrial education.

Attention may be called, though not for the purpose of imitation, to the progress made abroad in combining workshop with regular instruction in the special schools in German states, and in the French cities of Paris, Rheims, Lyons, Rouen, Lille, Douai, Nismes, St. Etienne, and Amiens. One hundred industrial art classes were reported in Paris alone, two years since.

In 1881, the English government sent a commission through France to investigate the progress in this industrial line, and note its valuable features.

The influence of this training in the products competition of our nation with nations of Europe is deeper and broader than the tariff influence now puzzling political economists, and through superiority in this industrial line and skillful handling of our natural products lies our only safe path toward international free trade, so long as our scale of industrial wages remains in advance of the European rates.

The School of Technology in Boston, the Stevens Institute in Hoboken, the Polytechnic School in Troy, the Columbia School of Mines in New York City, and scientific departments of our leading colleges have anticipated, for pupils of abundant means, the wants in this line, *in its advanced stages*, but not for the mass of pupils.

The system, if rightly directed in a line giving mental preparation and manual dexterity in general industrial work, so that the brain will be fertile in resources and the hand skillful in execution when set to a practical task, cannot too soon permeate our grammar and intermediate schools. Then, when our youths and girls go to their respective manual occupations, the use of the tools placed

in their hands will be quickly acquired and expert skill quickly attained, and they will be in the best preparatory condition to turn the gross materials under their hands into gold, by infusion of brain and soul and by skillful touch.

Special schools are experimenting with the system of parallel industrial and intermediate school instruction in several American cities,—notably in New York, under the direction of Prof. Felix Adler; in Philadelphia, under the direction of Prof. Chas. G. Leland; and in St. Louis, under the direction of Prof. C. M. Woodward; and Chicago has just completed an elegant structure for a like use, under private auspices.

The question of evening industrial classes, supplementary to the regular day classes, is commended for earnest consideration in our city, where in the midst of turbines, stationary steam-engines, shops and mills scarcely equaled elsewhere in the world in magnitude, and in the midst of a multitude of machines performing complex and various operations, we ought also to develop, more than heretofore, from our own school graduates, the highest skill and intellectual power which these shops and mills require, and a breadth of mechanical genius that shall redound to the honor and profit of our city.

## FINANCES.

The income in the year 1883 has been:—

Appropriation by city councils . . . . .	\$54,200 00
Balance of appropriations from 1882 . . . . .	114 77
From materials sold . . . . .	51 92
From tuition of non-resident pupils . . . . .	262 57
	<hr/>
	\$54,629 26
The expenditures in the year 1883 have been	53,505 70
	<hr/>
The balance on hand . . . . .	\$1,123 56



The sub-divisions of the appropriations for 1883 and transfers were as follows: —

	Sum avail- able from appropri- ation.	Increase by trans- fer.	Decrease by trans- fer.	Balance.	Expended.	Balance on hand.
Salaries of teachers.....	\$39,190.73	\$400.00 } 100.00 }	.... .	\$39,690.73	\$39,579.49	\$111.24
Books and stationery....	682.04	500.00	\$400.00	782.04	725.62	56.42
Care of rooms.....	2,986.09	.....	100.00	2,886.09	2,868.47	17.62
Contingent expenses....	901.43	725.00	.....	1,626.43	1,462.37	164.06
Fuel.....	3,411.54	.....	725.00 } 300.00 }	2,386.54	2,225.75	160.79
Furniture and supplies	1,630.38	.....	500.00	1,130.38	888.34	242.04
Printing and advertising.	781.62	.....	90.00	691.62	544.54	147.08
Repairs.....	3,589.78	300.00	.....	3,889.78	3,736.23	153.55
Evening schools.....	1,193.08	90.00 } 227.69 }	.....	1,510.77	1,474.89	35.88
Tuition.....	262.57	.....	227.69	34.88	.....	34.88
	\$54,629.26	\$2,342.69	\$2,342.69	\$54,629.26	\$53,505.70	\$1,123.56

The estimates of school expenses for the year 1884 are as follows: —

Teachers' salaries . . . . .	\$40,000 00
Books and stationery . . . . .	350 00
Care of rooms . . . . .	3,000 00
Contingent expenses . . . . .	1,250 00
Fuel . . . . .	3,400 00
Furniture and supplies . . . . .	1,300 00
Printing and advertising . . . . .	650 00
Repairs . . . . .	4,000 00
Evening schools . . . . .	1,500 00
	<hr/>
	\$55,450 00

The appropriation for schools for the year 1884, by the city councils, is \$54,000, a reduction of \$1,450 from the estimate.

Making pro-rata deductions of \$1,450, and adding the balances remaining in the account of 1883, the sums available for 1884 are: —

	Discount.	Remainder.	Balance of 1883 Acct.	Available.
Salaries of teachers.....	\$1,046.00	\$38,954.00	\$111.24	\$39,065.24
Books and stationery.....	9.15	340.85	56.42	397.27
Care of rooms.....	78.45	2,921.55	17.62	2,939.17
Contingent expenses.....	32.68	1,217.32	164.06	1,381.38
Fuel.....	88.91	3,311.09	160.79	3,471.88
Furniture and supplies.....	33.99	1,266.01	242.04	1,508.05
Printing and advertising.....	17.00	633.00	147.08	780.08
Repairs.....	104.60	3,895.40	153.55	4,048.95
Evening schools.....	39.22	1,460.78	35.88	1,496.66
Tuition.....	.....	.....	34.88	34.88
	\$1,450.00	\$54,000.00	\$1,123.56	\$55,123.56

## ANNUAL STATISTICS OF COST OF PUBLIC SCHOOLS.

DATE.	Average No. pupils	Cost of Schools.	Cost per Scholar.	City Valuation.	City Tax.	School tax.
1870.....	2129	\$42,000	\$19.45	\$10,710,252	\$234,047	\$ .0041
1871 .....	2080	42,900	20.62	11,365,162	236,632	.0037
1872.....	2278	47,900	21.03	11,542,632	259,196	.0041
1873.....	2450	47,300	19.34	12,001,200	300,768	.0039
1874.....	2463	47,500	19.28	12,716,892	312,835	.0037
1875.....	2501	51,800	20.71	14,195,102	315,131	.0036
1876.....	2543	50,100	19.70	15,309,348	248,900	.0032
1877.....	2513	47,900	18.78	15,605,718	246,573	.0030
1878 .....	2571	44,900	17.46	15,912,234	276,873	.0028
1879.....	2859	46,200	15.71	17,482,132	264,406	.0026
1880.....	2970	48,945	16.49	17,825,116	264,491	.0027
1881.....	2858	50,729	17.70	17,943,308	316,462	.0028
1882.....	2957	51,604	17.45	19,175,408	312,673	.0026
1883.....	2848	53,525	18.79	20,055,986	332,741	.0026

## REPAIRS.

There has been a marked improvement of our school facilities since the opening of the present decade. A new building has been built on Webster street, projected to contain, when complete, six school-rooms and a hall; a new building is ready for occupancy on south Elm street, with four school-rooms and a hall. The north Main-street school-house has been enlarged by the addition of two school-rooms. The interiors of the Lowell-street and Spring-street school-houses have been rebuilt, changing them from dark and gloomy quarters to sunny, cheerful, and convenient school buildings, and a large study-room has been prepared in the high-school building.

The line of improvement has been continued the present year by painting the exteriors of a considerable number of the school buildings, by enlarging and painting the hallways in the high-school house, reflooring a basement in the Franklin-street house, rescating the Youngsville house, etc.

Some repairs or improvements have been required in each school building, and some of the buildings have been so long in use as to require relatively considerable outlay each year; yet the aggregate cost of repairs during the year just closing has scarcely exceeded one-tenth of one per cent on the valuation of the school buildings. The shellac and varnish finish of wood-work and furniture in nearly all our school buildings has been sadly neglected of late years, with the deceptive view of economizing expenditure, and must now receive attention as soon as possible.

New desks for pupils are desired in many of the school-rooms, and the policy of the renewal of the furniture in one or two rooms each year should be adopted, commencing in those rooms where renewal is most needed.

One or two additional school-rooms are needed at present in West Manchester.

The sanitary arrangements connected with several school buildings are considered by the committee on repairs to be faulty, and it is their desire that objectionable fixtures shall be replaced by apparatus less jeopardizing to the health of the pupils, and they suggest that a special appropriation ought to be made for this purpose.

#### TRUANCY.

The following summary of the monthly reports of the truant officer indicates a portion of the work of that officer during the year for both city and parochial schools, so far as it can be reduced to statistical form:—

	City Schools.	Parochial Schools.
Absentees reported from .....	286	300
Number voluntarily returned to.....	26	16
Number reported caused to attend.....	239	230
Number found sick and unable to attend school.....	45	.....
Number otherwise unavoidably detained.....	23	.....
Number not found at all for. ....	2	5
Number unaccounted for.....	7	.....
Truants not enrolled found on streets.....	48	.....
Number of truants caused to attend.....	18	23
Number of school age found on streets in school hours..	303	.....
Number of parents visited.....	434	.....
Number of truants temporarily confined at city hall....	27	.....
Number of employment certificates granted.....	610	.....
Number brought before the court.....	4	.....
Number fined.....	3	.....
Number sent to reformatory schools.....	1	.....

## APPENDIX.

Following the Superintendent's report will be found an inventory of school houses and furniture, some comparative statistics of schools in the state selected from the last report of the State Superintendent of Instruction, the new high-school course of study, and some extracts from the General Laws of the state which it is the duty of the School Committee to present to the public.

J. T. FANNING,

*For the Committee.*

December 31, 1883.

## 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 seventh report, the same being for the year 1883, and the twenty-eighth of its series :—

### ORGANIZATION.

During the past year six teachers have been employed in the High School. There has been an average of seventeen grammar-school divisions, twelve middle schools, thirty primary, and nine ungraded suburban. This is equivalent to seventy-four distinct schools of a single room each ; but the average number of regular teachers necessary, and employed, has been only seventy-one, because the principal of the Training School has charge of the four rooms constituting that school.

### ATTENDANCE.

The whole number of pupils is thirty-three less than it was a year ago, and the average number of teachers employed is two less. The floating population seems to have been less stable than usual ; for, though the whole number of pupils is only thirty-three less than that of a year ago, the average number belonging is less by one hundred and nine. The average daily attendance, however, has not been reduced disproportionately, and the per cent of attendance maintains its usual high standard.

In connection with this subject I deem it proper to call the attention of the committee to the questionable practice of awarding cards and diplomas to individual pupils for attending every half-day of a term, or of the year, without being tardy.

The practice has prevailed many years, and as long ago as 1868 the names of those attaining perfect attendance for a term or a year were published in the annual report. This, however, was not long continued; and less and less attention has gradually been given to the matter. Indeed, there is not now any uniform call for them from teachers, and pupils entitled thereto have not all manifested sufficient interest to ask their teachers for them. Teachers occasionally acknowledge that pupils have attended school for the sake of obtaining term cards, when they were not fit subjects for the school-room; and I am confident that any encouragement from teachers to stimulate pupils to an effort to attend school regularly simply for the sake of obtaining the cards has been the exception and not the rule. Certainly no stress has been exerted in this direction by myself. Nevertheless, the success of efforts to obtain these cards and diplomas made in former terms by older brothers and sisters, the annual award of upwards of two hundred diplomas for perfect attendance during a year, and the usual quota of several hundred cards awarded for perfect attendance during each term, — all combine to incite many to an attempt to secure them.

If, without jeopardizing their health, all could be equally successful, there would be comparatively little harm; but this is impossible, and hundreds every term fail through no fault of theirs. Many of these then become discouraged, not having been actuated by the highest of motives, and doubtless some are afterwards less regular in attendance than they would have been under ordinary circumstances.

Adding to this the fact that a few, for the purpose of obtaining these cards, insist upon attending school when they are unfitted for its work, I think there is sufficient reason for discontinuing the practice of awarding cards and diplomas for perfect attendance; nor do I think the per cent of attendance upon our schools would now be materially lowered thereby.

I, therefore, recommend that at the opening of next term pupils all be notified that the practice of awarding term cards and diplomas for punctuality of attendance will be discontinued at the end of next spring term.

I deem such notice of their discontinuance but fair to those who through their efforts last term secured the first of a series of three term cards that would entitle them to a diploma for a year's perfect attendance next July. By such an arrangement no others can, in the future, enter upon an effort to secure a term card in the hope of thereby securing a yearly diploma, while the committee will have kept faith with those who have succeeded, some for one term and others for two terms, under an arrangement which pupils had reason to expect would be continued, — at least sufficiently long to make it possible for them to obtain a yearly diploma.

#### CONDITION OF THE SCHOOLS.

The general condition of the schools for the past year has been good. Teachers have all been conscientious and earnest in attempting faithfully to discharge their individual duties, and any noticeable differences in their efficiency may be truthfully attributed to differences in ability rather than to any disposition to neglect their respective duties.

The city, I believe, has never had a smaller proportion of ordinary teachers enrolled in its corps, nor a larger proportion so well adapted to their several positions as now. Hence the work of no year has ever been better done.



A great compliment was paid our schools a few weeks since by a school man, who, after spending two days in visiting them, said to me: "The striking feature of your schools is that the pupils, even in lowest classes, all the time seem to have something arranged for them to do which so pleases them, and which they are so eager to do, that I see but little government on the part of teachers, and yet scarcely any inclination to idleness or mischief on the part of pupils." This, certainly, is a high realization of the best means of government on the part of our teachers.

As foreshadowed in my report at the close of last year, oral spelling has this year been re-instated in the primary schools, and it has generally been successfully taught: and that, too, in most primaries in a way that has been attractive to the pupils.

My next special effort in behalf of these schools will be to improve their penmanship. Considerable improvement in this particular has already been made, but they have not yet attained the high standard in penmanship which I deem possible. I shall, early in the coming year, bring this matter to the attention of the committee, and I trust they will be prepared to grant the materials necessary for the accomplishment of the desired improvement.

#### LANGUAGE.

Upon the revision of the course of study for the elementary schools in 1880, occasion was taken for making a change in the teaching of language.

It had been charged generally throughout the country, that though pupils in the schools could rapidly analyze long and intricate sentences, and glibly parse the words of the same, they could not, it was said, write an ordinary letter or other simple production without revealing themselves

lamentably ignorant of correct spelling, of a proper use of large and small letters, of punctuation and other marks used in written matter, and of paragraphing, spacing, etc.

School officials were obliged to acknowledge the charge too true; and in common with others, though we did not go to the extreme reported in some places of taking the grammar entirely out of the schools, we did recognize that for those who could not obtain more than an average common-school education, it was better that pupils should go out into life able to make a good *use* of language, rather than that they should have acquired skill only to criticise it. Our course of study was then modified for the purpose of affording greater opportunity to teach a better use of both spoken and written language. The elementary grammar, however, was retained, in the belief that it would afford enough of the technics and principles of our language, if taught as designed, to equip the grammar-school graduate with a criterion from which he might in future determine for himself the correctness of the use of ordinary English.

Not until near the close of last term did I make any systematic test of the results of this changed form of teaching language in our schools. As an inspection of fair samples of the results will best advise you and the public in regard to the degree of success thus far attained, a few papers may be found in the appendix of this report, to which I also refer for other interesting matter.

#### HIGH-SCHOOL COURSE OF STUDY.

The course of study for the High School has been the object of considerable criticism, as being directed too largely to the study of the ancient languages. Being called upon early in the fall term to suggest such changes in this course as might be deemed best to meet the varied interests of those patronizing our High School, I have devoted many

hours to the subject, and recently presented the draft of a new course for the inspection of the sub-committee of the school, to whom the matter had been referred.

This course is thought to embrace the essentials of two drafts submitted by the president of the board and by the chairman of the high-school sub-committee, respectively, as well as my own ideas of the needs of our citizens.

The draft as submitted contemplates, first, a two, three, or four years' *English* course, in which no foreign language is introduced. This course is designed to be especially strong in the study of the English language, mathematics, and natural and political sciences, arranged with a view of affording opportunity to those in attendance for the shorter periods of time to study the more important portions of the subjects named in the course.

It may here be said that this course is regarded as a natural continuation of the studies pursued in the elementary schools, between which and them there is no greater step than between the different grades of the lower schools. I believe, too, that a knowledge of the studies embraced in the first two years of the proposed high-school course is as important to the average citizen of today as were the studies in the elementary schools a quarter of a century ago to the people of that time.

Since this draft for our high-school course of study was prepared, I have learned that the studies named in its English course are almost identical with those school studies arranged for the new, large, and fully equipped Manual Training School at Chicago. If our English course in the High School could be supplemented by evening instruction in shop-work, similar to that to be done in the new Chicago school, our pupils could obtain a broad preparation that would fit them for successfully entering upon any one of many trades. They would also thereby have their

attention turned to the consideration of those industrial pursuits whose followers become producers.

The other lines of study in the new draft for a high-school course of study are largely based upon the English course, already described, and embrace, first, a scientific course of either three or four years, in which the subjects are so arranged that five-sixths of the time shall be devoted to English studies and the remaining sixth to French; secondly, there is provided a classical course of either three or four years, three-fourths of its time being devoted to English studies and one-fourth to Latin, or, if Latin and French both be taken in this course, then seven-twelfths of the time are to be given to English studies and five-twelfths only to both Latin and French; lastly, a college preparatory course of four years is offered, in which four-ninths of the time are to be given to studies in English and five-ninths to Latin and Greek.

The arrangement of this latter course is so made, first, because some who enter upon it with the full intention of going to college will never go there; secondly, because of the belief that it is not the province of a public school to teach more of the ancient languages than may be necessary to fit citizen-pupils for the colleges in their own state.

Further, it is proposed that no pupils shall be allowed to enter upon any other than the English course in the High School without first producing a written request for such privilege from their parents or guardians, who shall specify which one of the other courses is desired for the pupil in whose behalf the request is made. Thus it is hoped that none will be allowed to enter upon the study of foreign or ancient languages without a due consideration of their relation to the expected work of life.

The new draft for a high-school course of study also contemplates that there shall be general exercises every Wed-

nesday wholly in English, embracing spelling, elocutionary drill, reading, penmanship, music, English authors, rhetorical exercises, and the geography of New Hampshire.

In estimating the portions of time herein before indicated to be the proportions devoted to the study of English in the several courses, consideration was given only to the work of the regular courses for the other four days of the week ; hence the comparative amount of time devoted to the study of English is considerably greater than the given estimates, all of the Wednesday exercises being in English.

#### ADMISSION TO THE HIGH SCHOOL.

Our method of admitting pupils to the High School, a subject which is proving the source of considerable trouble in some other places, has again demonstrated the wisdom of the plan, by its efficiency and the satisfaction afforded.

This plan, in brief, is the admission of pupils from the grammar schools upon the recommendation of the several grammar masters, the average results of the scholastic attainment of their respective pupils, as recorded for the year, being taken as a basis for judgment.

We are, however, having trouble from an overcrowded condition of the higher divisions of the grammar schools, resulting from the fact that promotions are made twice a year in the elementary schools, and only once a year from them to the High School.

Relief, I think, can best be had by admitting to the High School twice a year, those entering the first of February taking a special course\* until the following July, after which they should enter upon one of the regular courses.

\* Comprising preliminary training in algebra, exercises in English composition, and oral instruction in physics.

## GRAMMAR MASTERS.

As I have intimated in former reports, I do not feel that the full power and scope of the influence and ability of the grammar master is realized in our city. He is here simply a supervisor of the general conduct of the pupils and schools in his building, and instructor only of the classes in the room of the most advanced grade. His higher office is presumably as a superior instructor, and his influence in this more important relation should be felt by every pupil in his building. Otherwise it will never be felt by a large majority of those under his general control, only a comparatively small portion of them ever reaching the first-division grade.

The best service of the grammar master can be obtained only by giving him an additional assistant teacher, to take charge of his room and hear recitations while he is at work with other classes, which should be at least half of the time. "But," says the objector, "that is too expensive; and, besides, I don't believe in giving the master an assistant to do his work." Neither do I.

But what are the facts in regard to the case in hand? I answer as follows: First. It is proposed, after a little observation to ascertain in what direction help is most needed, that the grammar master shall do *earnest work* with every class in his building. This does not mean an easier part for him, but a far more difficult. He will need to study and prepare as never before, if he would present to his assistants examples of the best methods in teaching, and maintain with their pupils a conviction of superiority becoming his position. Should he do his duty in this enlarged sphere of his office, he would richly deserve all the additional increase of salary he now asks. It would, indeed, be difficult adequately to compensate all the service that is anticipated by this plan. It has broad moral as well

as intellectual relations, by reason of the closer contact which the master would have with all his pupils, whereby he would better understand and be better able to direct their motives.

Secondly. The course of study for the elementary schools is all covered by the work of the various grades found in our large grammar schools. Now the head of every such school should be familiar with the work as a whole, as well as in the relation of its parts, and have authority so to direct that the greatest good of the greatest number would be most highly subserved. Were this the case, to the extent that he could come in almost daily contact with the work of the several classes, not only would essentials be more likely to be emphasized, but individual pupils could here and there along in the course be selected for double promotions, or gain time by advancement at other times than those of regular promotion, without cramming or other undue strain. This is possible, because the course of study is made, as it must be, for the average child and with some regard to what the average teacher can do. But how great is the difference in children, ! and how marked the difference in the attention they receive at home ! and yet no one should hazard double promotions for any, unless he grasps the work as a whole and in all its relations, nor unless he comes in sufficiently close contact with the daily work of the pupil to be sure that he can be irregularly advanced without harm. This, then, is a good which the grammar master could wisely do for numerous pupils in their course through the elementary schools, — a course which he could profitably shorten for some if he had his sphere of usefulness and action enlarged as I have described. Other gains likely to ensue from the encouragement of advancing pupils as rapidly as carefully watched conditions might admit, would be the longer continuance in school of some,

and an increase in the number of those entering upon the work of the higher grades.

In the light of the foregoing reasons, I ask whether the greater good of the greater number would not be so promoted by such a course of procedure as to prove itself wise economy and dwindle into insignificance its additional expense? Again, I ask if the suggestion of placing an immediate director over the interests of an institution containing so many departments so peculiarly related to one another as those of our larger schools is not founded on sound business principles? How infinitely more vital are their interests than those of a mill; but over it and its departments are found the agent, superintendent, and overseer, nor would dividends be expected therefrom with less supervision.

There are no subjects connected with the well-being of our schools that I regard worthy of more careful consideration than that just discussed, and the purpose of the Training School. It would seem that the latter was established after sufficient deliberation, had been in existence sufficiently long, and with results sufficiently satisfactory, to warrant its continuance without further question; yet fearing its position and work are not altogether understood, I here give it further consideration than I otherwise should.

#### TRAINING SCHOOL.

The Training School has now been conducted for an entire year under the direction of a single responsible head, without the employment of any other regular teacher. Miss Sarah E Sprague has been its efficient principal; and I deem the committee justified in advancing her salary to an amount sufficient to retain her services, notwithstanding the sharp competition of other cities to secure them,—attempts which, doubtless, would have been successful if this



lady had not become interested to see our plan of organization completely established. This plan, in brief, is as follows : —

Four schools, embracing both primary and middle grades, are used for schools of practice, and are taught by the members of the training class with the assistance of the principal.

The duties of the principal are the same as those of the head teacher in any other building, with the addition of such other duties as her position as a training teacher entails.

The duties of the sub-teachers are of a twofold character, being those of both pupil and teacher. As pupils, they regularly receive instruction from the principal in methods of teaching, school economy, the philosophy of education, and the like ; and they are held accountable the same as other pupils, for the careful preparation of lessons assigned and for the faithful performance of all work connected with the course of study marked out for the training class. As teachers, they instruct the various classes placed under their charge, in accordance with directions received from the principal, and they render such assistance in carrying on the other work of the school as the principal may deem advisable.

During the first six months that the young ladies spend in the Training School, there is but little actual teaching required of them. During the second half of their first year in the school, they receive ten dollars per month ; while during the third and last six months of their connection with the Training School they are paid twenty dollars per month.

As the increase of salary would seem to indicate, more responsibility is at this time placed upon the sub-teachers. The seniors are given full charge of the rooms during the

first half of the forenoon sessions, the principal being then occupied with recitations of the new members. For that portion of the day after the forenoon recess, they are assisted by the junior members of the training class, and by the principal, who, passing from room to room, suggests, advises, or teaches, as may seem most necessary.

At the close of each day the seniors are called together by the principal, who criticises their work for the day, advises changes when needed, answers queries, and lays out future work.

We thus have a training school, upon the most approved plan, at very small expense. The teaching force for the four rooms comprising the Training School would regularly cost eighteen hundred dollars a year, at maximum salaries, while the Training School for the past year has cost but nineteen hundred dollars for teaching service. This includes the monthly stipend allowed the sub-teachers during the part of their term when actual teaching service is rendered. The difference between these two sums, or one hundred dollars, is the additional cost to the city of an excellent training school for the past year.

In return, we have had from the membership of this school many days of satisfactory substitute work in the schools at large. Of the nine sub-teachers in the school at the opening of the year, one has been given temporary charge of two different schools for the whole of two terms and the greater part of another; a second has been temporarily employed in one school during two entire terms; a third was given a permanent teacher's position at the opening of the spring term; and a fourth has already been elected to a permanent position, her term of service to begin with the opening of next term. Of the other five, but one has as yet completed the course; and there is, therefore, only one graduate of this school now available for substitute work or a permanent position.

During the current year, the lessons and lectures described in my last report have been continued, various manuals of instruction have been carefully studied, and greater time and attention given to professional reading. A few new features have been introduced for the sake of adding to the interest and thoroughness of the work. Among those which have been found most efficient are the query-box, the conducting of class recitations from carefully prepared questions, and debating at regular intervals questions which have vital influence upon school management.

The query-box receives from sub-teachers, during the week, questions which they have prepared from a careful observation in regard to practical points of school management or methods of teaching. At the close of the week, one of their number opens the box and answers the queries in the presence of the class, who are at liberty, immediately afterwards, to question one another and the principal upon the topics under consideration. The latter finally commends or corrects the answers given to the queries, as occasion may require.

The exercise in which the sub-teachers from time to time hear their own classmates recite a lesson assigned to all furnishes a pleasing variety to the work, and also promotes thoroughness and self-reliance upon the part of the one called upon to act as teacher. At the close of such a recitation general criticisms are made by both sub-teachers and principal.

The debates were introduced in the fourth month, after the training class had gained some knowledge of the philosophy underlying methods of instruction and school management. The purpose of these debates is manifold. They have already promoted a broader idea of professional work in the class, and a more careful reading of educa-

tional works for arguments to be used in the debates. The young ladies have also made a good degree of improvement in their use of language in extemporaneous speaking, and they are steadily gaining the dignity and self-reliance which must accompany all successful work in the school-room.

The sub-teachers are thus receiving a training for which many, under like favorable circumstances, would be glad to pay reasonable tuition. It would, therefore, seem that there can be no lack of candidates for admission to the school, especially since the committee have enacted that "qualifications being equal, preference shall be given to graduates of the Manchester Training School" whenever teachers are to be selected for permanent positions.

The transfer of the Training School from Franklin street to its old quarters on Merrimack street was a gain in most respects, though a disadvantage in others. The class gained a recitation-room for the exclusive use of themselves and the principal of the school, in place of using a room which had been occupied all day by children and in no way suited to their needs, as was the case last year. The building now used contains no other schools, hence there can be no clashing of interests. The school-rooms are larger and not so crowded as those at Franklin-street; they are also better lighted and ventilated. On the other hand, it was a manifest disadvantage to have a new set of children to deal with, instead of continuing the methods of instruction and discipline with children who had already been accustomed to them, though the schools upon Merrimack street had been under excellent discipline and well instructed.

In this connection it seems proper to name the additions to the Training-School library. They are: Johnson's Natural History, two volumes; and one copy each of Talks on Teaching, by Col. F. W. Parker; Duties of Women, by

Frances Power Cable; Infant and Early Education, by Currie; School Management, by Joseph Landon; Outlines of Educational Doctrine, by Prof. W. H. Payne. These, in addition to the list named in the report for last year, show the library to contain some of the most valuable works for teachers published in this country and Great Britain.

The training school is an essential part of the public-school system of every large city not containing a normal school. This is particularly true of those paying their teachers less salaries than good normal-school graduates command, for the following reasons: First. All large cities are in constant need of substitute teachers, and sufficient suitable ones can be had in such cities as ours only from the membership of a city training school and its graduates. Even the accomplished high-school graduate is an incompetent substitute; and the lower the grade of school, the greater her incompetency. It requires one who has been skillfully trained for the purpose, or one who has acquired an equivalent by experience, to teach a modern primary school well. The amount of substitute work in the course of a year is great; and the schools would become seriously embarrassed through the lack of a sufficient number of available substitute teachers, or by the employment of those poorly prepared for the work.

Secondly. For the salaries here paid, we must depend for teachers chiefly upon those who can live at home. Those willing to come here from other places, at our prices, do not as a rule (and a former superintendent observed the same) do as well in teaching our schools as the better portion of our high-school graduates who have been through all our grades of school and are somewhat conversant with the general system. Hence we must either train such, or allow the schools to suffer the consequences of their experiments until they shall have acquired the necessary knowl-

edge and skill. If put into the primary school, as such beginners usually are, they generally make the saddest of work, even when honestly striving to do their best. They have neither the maturity nor training "to understand what they are doing, to say nothing of their inability to do much that they really appreciate." The fault is not theirs; it is in the mistaken economy which so often places the untrained teacher in the school-room rather than to meet the expense of the training.

A distinguished writer has recently said: "What the schools need, just now, is a race of teachers who will take their stand at the center and tell us how to do the everlasting commonplace things that lie at the base of human life, by methods more natural, swift, sweet, and radical; how to teach the ordinary child, in a shorter time and with less friction, to read and write and spell, and put his thoughts on paper, and handle numbers, and have a realizing sense of nature, the world he lives in, and some of the good things that people have done in it, — this is the problem of the common school."

This problem is not likely to be solved by teachers who have no knowledge of the philosophy of methods. They can but faintly recall the forms used by their teachers a decade earlier, and certain it is that there have been great changes for the better within the last ten years, in the methods of teaching every grade of school. But these methods are better only when directed by an ability correspondingly better, and this must be acquired by the novice at the expense of the children upon whom her experiments are made, unless she first has the training that can be obtained from the tuition of an expert in methods.

That the opinions and arguments herewith advanced are such as obtain in cities whose schools have the highest reputation for real worth is clearly shown by the yearly estab-

lishment of schools for the especial training of teachers. Among those cities in which such schools have been organized within the past few months, at a greater expense than Manchester permits, may be cited Columbus, Ohio, St. Paul and New Haven.

The leading educational journal of the country, in one of its editorials, says: "We add our deliberate conviction, that no city of considerable size can now expect to keep step with the educational life of the country, that does not provide itself with a thorough system for the training of the majority of its teachers, in theory and practice, under the eye of an expert, in the most approved methods of instruction."

This conviction I heartily indorse, and recommend to the thoughtful consideration of the guardians and patrons of our public schools.

#### CHANGES OF TEACHERS.

From an inspection of the list of teachers found in the appendix, it will be seen that there have been numerous changes during the current year. Six are there marked as having resigned. Two others, who resigned so early in the year that their names do not appear in the list, are Miss Clara G. Fogg, first assistant at the Franklin-street School, and Daniel A. Clifford, principal of the Ash-street School. Miss Antrice G. Flanders, first assistant at the Ash-street School, also resigned at the close of the fall term. These were all good teachers. The last two had been in the employ of the city about fifteen years, and rendered efficient and satisfactory service. They both excelled particularly as teachers of language. At the close of the year Miss Mintie C. Edgerly, who has also rendered the city valuable service for many years, tenders her resignation, on account of ill health.

Numerous transfers were also made at the close of the spring term, and they, too, are made apparent in the appended list of teachers.

To fill the places made vacant by resignations and transfers, the following have for the first time been employed as teachers during one or more terms: Fred C. Baldwin and Mary E. Bunton, in grammar grades; Kittie J. Ferren, in the lower middle grade; Mary G. Tynan, Eva F. Tuson, Kate M. Follansbee, and Georgie A. Wyman, in primary grades; Ariana S. Dudley, Josie H. Richardson, and Addie C. Prescott, in suburban schools; and Wm. F. Gibson, for one term in the High School.

#### MANUAL TRAINING.

Without claiming to be a discoverer, I may truthfully assert that prior to writing my first annual school report, in 1877, I had not heard of any attempt or advocacy of an engraftment of manual training upon the public school; and what I then wrote was said as the result of my personal observation and many years' experience as teacher in the higher grades of public schools. I quote therefrom as follows: —

“It is patent to teachers of the higher departments, and likewise obvious to the casual observer who frequently visits these grades, that too many pupils are there of the class who have no just appreciation of the advantages before them; that, never having been obliged ‘to lend a helping hand’ toward the maintenance of the family, they have the poorest idea possible of what it is to be industrious, thorough, or frugal, as they show from their conduct at school, by careless habits, waste of time, and indifference to fair attainments. For all of this, they or their parents may not be more at fault than the system of education which fails to reach this class of pupils.”



My accompanying remedial suggestion I soon learned to be too expensive to be practicable as a part of our city school system, though it is now being tried in the system of some of the great cities. There has since, also, seemed to be a realization, all over the country, of the educational value of manual training. Less expensive forms of it have been devised, so that several of the larger cities are attempting its introduction in their schools. It may be well that Manchester should now await the results of the trial in the great cities, which are better able to bear the expense of experiments. We *may* thus be taught, and saved the expense of the lesson, that those pupils who cannot be brought to exercise the full strength of their mental faculties by means of the ordinary school appliances cannot be led to such an exercise of them through a more direct application of mind to matter, as would be required in the attempt through a manipulation of the hand to produce in material substance the conceptions of the brain. For one, however, I shall not only be disappointed if manual training in the school does not prove highly beneficial to that element in whose behalf it was particularly conceived, but also surprised if nearly all boys in the grades where it may be introduced do not claim the privilege of its exercise. While the chief benefit of manual training in the school is likely to be in the interests of those who could not otherwise be so well incited to put forth their best endeavor, I do not hesitate to predict that the class in no need of incitement to further endeavor will be so fascinated by the revelations unfolded in learning the dextrous use of tools that they will derive therefrom, to some extent, the recreation of which this latter class usually stand so much in need, and thereby probably be led to avoid the more dangerous forms of pastime which beset the young in large cities. In this view manual training becomes an important factor in

moral training; and who that has experienced the disciplinary influence of an acquired skillful use of tools can doubt its moral power?

In this connection, permit me to quote a few lines from my report of 1878:—

“ I think the safety of the state, for which alone schools have any claim to support by public tax, would be as greatly promoted by the establishment, in our larger towns, of schools for the purpose of teaching habits of manual industry to the portion of school population that do not attain it in any degree from their natural guardians, as by our present system of public schools, which are so well adapted to the necessities of the majority. Idleness, I believe, leads to poverty and crime more frequently than ignorance. I am more fully aware than I was a year ago of the practical difficulties attending an engraftment upon our common schools of any general system of manual instruction, but I am inclined to think its need, which I believe will be found imperative before the close of another quarter of a century, must be met by special public institutions or by local enterprise.”

Less than a quarter of that “quarter of a century” has elapsed, and yet even in the public school are now taught the *elements* of a “general system of manual instruction;” while the “need” of the latter is already felt and being rapidly “met by special public institutions or by local enterprise.” What more worthy subject invites the attention and investigation of some wealthy and benevolent citizen who may be desirous of bestowing upon his city some creditable public benefaction?

I will not, at this time, argue the merits of manual training in the school, nor will I introduce the arguments, favorable and adverse, of those who have given the subject most attention; but I will, instead, refer those interested

in a further consideration of the subject to the papers and discussions proclaimed before the American Institute of Instruction and the National Teachers' Association at Saratoga, July 13, 1882 ; to a pamphlet entitled " Manual Education in Public Schools," by ex-Superintendent L. H. Marvel, editor and publisher of *Good Times*, Boston, and to the numerous authorities cited in Mr. Marvel's pamphlet ; to leaflets descriptive of the work accomplished in the Dwight School at Boston ; and to pamphlets upon the subject issued by the U. S. Commissioner of Education, as well as to the *New England Journal of Education*, Boston, and *Education*, a bi-monthly magazine issued by the publishers of the *Journal*.

Manchester now has in the higher grades of her schools a less number of pupils who fail to appreciate and properly utilize the advantages of the schools than she had six years ago, while the aggregate number in these grades is about the same. These facts, since the aggregate number in all the schools is about three hundred greater, indicate that those who are indifferent to the higher attainments afforded by the high and grammar schools do not sufficiently continue their attendance to reach these grades. It would, therefore, now seem that the chief service of manual training in our schools would be its tendency to prolong the pupilage of those who permanently withdraw from the schools before reaching the higher grammar grades ; but, as the withdrawals are chiefly from the primary and middle schools, and by an element largely and peculiarly affecting many of these lower grades, I think a change might be effected which would be of greater benefit to our population as a whole than the immediate introduction of manual training in our schools, while the advantages of an industrial education would be as largely attained without any additional expense to the city.

I refer to the plan, which has been successfully practiced in some other places, of having those pupils who are annually employed about half the year in manufacturing establishments attend school half of each school-day, their employment in such establishments being allowed during the other half of the day. There are two or three ways by which such an arrangement can be worked, and I shall be glad to present them whenever the committee may be ready to give its attention to the matter. I earnestly urge that you may early give the subject your attention for the following reasons, quoted from my report of 1879:—

“First, there would be effected in a measure, for that portion of our school population most in need of it, a realization of that ideal training which combines study and labor; second, the influence of the school would be constantly exerted upon the child operative, and his learning made more certain and progressive; third, such an arrangement would be in the interests of humanity, providing, as it would, some release from the continual strain of bearing exacting responsibility during more hours daily than the physical powers of children can successfully long endure.” It might also be added, that under the most approved form of regulating such employment, the pupil employes would each receive the benefit of one-half of every holiday, whether exceptional or of the regular vacations.

Thus, it seems to me, you may so arrange that the portion of our pupils most in need of an immediate industrial education may obtain it, not only without expense to the city, but with direct and positive advantage to themselves and their parents. The advantage, too, would not be limited to its immediate effects, for the pupilage of this class would be prolonged, as of necessity they would first have to attain the scholastic attainments required by law before they could be constantly employed. With this extended

length of pupilage would come an increase of years and a consequent greater maturity of mind, whose aspirations, it would be expected, should lead this class of pupils more largely to enter upon and longer pursue the studies of the grammar schools.

#### MUSIC.

In former reports I have sufficiently expressed my opinion of the advantages of music in the schools, as well as my high appreciation of the work performed by Prof. J. J. Kimball, our present special instructor; and though I feel the importance of considerable instruction in music. I regard that the amount and degree of it in the public school should be made secondary to the instruction required in other branches and auxiliary thereto. I would, therefore, require that the instruction in music should be so limited that it could not encroach upon the time that should be devoted to the studies which are more important to the greater part of our pupils.

At the opening of the fall term, the committee directed that the special teacher of music should devote his three days per week to instruction in the high and grammar schools exclusively. These grades have consequently been receiving about two hours' drill in music weekly, including the lessons of the regular teachers. Notwithstanding this, the "Course of Study" contemplates that only one hour per week shall be devoted to music in the elementary schools. By reference to their time-table it may also be seen, that two hours per week is about the maximum amount of time that can be devoted weekly to the recitations of each class in the most important studies taught in these grades. The time being thus limited, an additional hour devoted to music means so much less than the marked time for the other studies; so two hours per week for

music may be more time than is devoted to the recitations of a class for the week in arithmetic, language, reading, or some other study regarded as one of the more essential studies of the common school. If the present plan of teaching music is to be continued, I think teachers should be instructed particularly in regard to which of the other studies, and to what extent, they are to devote less than the indicated amount of time.

In the High School, too, it has heretofore been customary, during two weeks out of every three, to devote an hour less per week to drill exercises in music. There are six teachers in this school; and the additional hour devoted to music means six recitations less per week, for two-thirds of the time, in the other studies of this school, if the recitations can be so arranged as to economize all the time.

Besides, to my mind, the plan of confining the instruction of the special teacher to the higher grades is wrong in principle. So continued, it would be like employing a special teacher to unfold the best methods of teaching mathematics in the schools and then directing him to confine his efforts to the most advanced classes, without regard to the first principles of the subject. One with scarcely any knowledge of music can soon become competent to teach it in the higher grades, sufficiently well for the purpose of the public school, if it first be thoroughly taught in the lower grades; so I would confine the instruction of the special teacher in music to the primary and middle schools, if he is to be limited to either the higher or the lower grades. I also regard that the duties of the teachers of the lower grades are quite as onerous, and that they are therefore as much entitled to the assistance afforded by the special instructor. Great harm has not yet been done by the plan under which the special teacher has been directed to work during the past term, and I know it was regarded

as experimental ; but it has been in operation sufficiently long to convince me that it is not so well for the schools, generally, as the former plans, under which the special teacher in music visited all of the schools.

Theoretically, I do not favor the employment of a special teacher of any subject for all of the schools ; but the results of the many years' special instruction in music afforded our schools are such that I concur in the wisdom of its continuance, satisfied, as I am, that its protraction is in accord with the wishes of the patrons of the schools, generally, and not opposed by those who most largely contribute to its expense. Such instruction, however much the statement may be regarded as a low estimate of the utility of music in the schools, largely promotes good feeling ; and *in proportion to the high degree of art attained in its presentation and acquisition* it becomes an efficient means of school discipline.

I therefore recommend that its advantages be given to the schools in general, by a return to one of the former plans for governing the work of the special teacher in music, unless a better can be devised.\*

#### TEACHERS' ASSOCIATION.

Early in the year the public-school teachers organized a voluntary teachers' association, for mutual improvement. During the first term, however, there were only two meetings. February 26, an organization was effected ; and March 19 there were presented admirable "Class Exercises in Reading" and in "Vocal Drill," under the direction of Nellie M. James and Prof. B. F. Dame.

The following is the program arranged for the spring term, and successfully carried out by those to whom parts were assigned : April 23, — Lecture, by Rev. Henry Powers,

\* The special teacher has since been directed to instruct all the schools in the city proper, once in two weeks.

upon "Some of the Essentials of a Common-School Education." May 7, — Essay, illustrated by specimens of class work, by Miss Naney S. Bunton, "How the English Language should be taught in Primary and Middle Schools;" "How it should be taught in Grammar Schools," by Edward P. Sherburne; and "How it should be taught in the High School," by Miss Lucretia E. Manahan. May 21, — "How to employ Pupils not at Recitation in the Primary School," by Misses Lenora C. Gilford and Emma L. Stokes; and "How shall we create Enthusiasm in the lowest quarter of the Class?" by Albert W. Bachelier. June 4, — "School Recesses," by Miss Mary A. Smith and Fred C. Baldwin, and "Waste of Time in the School-room," by Miss Mary F. Barnes.

In the fall the association met first for re-organization. Upon the expressed wish of some teachers that the meetings might be less numerous during the progress of the special lessons in drawing, the executive committee accordingly arranged for but one more meeting during the year. At that, "Percentage" was treated by George I. Hopkins.

The several parts at each of the meetings were performed in a manner highly creditable to those participating, and with much profit to all; and it is confidently hoped the association will continue its good work during the coming year.

#### CONCLUSION.

In conclusion, I feel inclined to suggest the adoption of a plan in operation in some places in the great West, where many of New England's most advanced ideas chiefly prevail, — carried there by the most enterprising of her population, and improved upon by opportunities afforded in re-organizing old systems. The custom to which I refer is, that



of having "Visiting Committees" selected by the School Board from among the ladies and gentlemen of the community at large and appointed for the purpose of inspecting the schools and reporting their views in regard to the nature and success of the work attempted therein.

You have this year made far more numerous visits to the schools than former committees have averaged for several years, but there has been no perceptible increase of visits by our citizens, who for the most part attend only when invited to witness some special exercise. It therefore occurs to me that a fair number of citizens selected from among the patrons of the several schools, and invited to give certain schools their special attention, would prove as effectual a means as any for awakening an interest that might speedily develop from a special to a general one, and greatly redound to the lasting well-being of our schools.

I finally thank you, gentlemen of the committee, for your general courtesy, and for every special consideration extended.

WM. E. BUCK,  
*Superintendent.*



# APPENDIX.



TABLE SHOWING THE ATTENDANCE AT THE VARIOUS SCHOOLS FOR THE YEAR 1883.

SCHOOLS.	Whole No. Enrolled.	Whole No. Belonging.*		Average Number Belonging.	Average Daily Attendance.	Percentage of Daily Attendance.
		Boys.	Girls.			
High School.....	234	72	97	159	153	96.2
Franklin-street Grammar School.....	209	101	78	149	142	95.3
Lincoln-street Grammar School.....	232	90	97	160	149	93.1
Ash-street Grammar School.....	259	83	118	195	183	93.8
Spring-street Grammar School.....	60	19	25	34	32	94.1
Piscataquog Grammar School.....	141	64	71	113	107	94.7
Webster-street Grammar School†.....	35	17	13	26	24	92.3
Totals.....		374	402	677	637	94.1
Middle School No. 1‡.....	..	..	..	..	..	..
“ “ “ 2.....	63	16	24	38	33	86.8
“ “ “ 3.....	78	26	29	42	39	93.8
“ “ “ 4.....	102	28	33	47	44	93.0
“ “ “ 5.....	99	30	20	47	44	93.0
“ “ “ 6.....	94	36	34	52	46	90.4
“ “ “ 7.....	79	32	37	43	38	88.4
“ “ “ 8.....	83	31	34	45	41	91.1
“ “ “ 9.....	101	38	33	44	40	90.9
“ “ “ 10†.....	91	35	26	46	42	91.1
“ “ “ 11.....	80	27	31	40	37	92.5
“ “ “ 12  .....	78	27	26	36	33	91.7
“ “ “ 13†.....	..	..	..	..	..	..
“ “ “ 14‡.....	68	2	7	46	42	91.1
Totals.....		328	334	526	479	91.1
Primary School No. 1.....	80	50	25	40	37	92.5
“ “ “ 2‡.....	65	21	23	31	29	93.5
“ “ “ 3.....	92	32	47	42	36	80.9
“ “ “ 4.....	75	30	15	42	38	90.5
“ “ “ 5.....	98	51	25	38	34	89.5
“ “ “ 6.....	104	56	43	46	42	91.3
“ “ “ 7.....	94	30	37	52	49	94.2
“ “ “ 8, Discontinued.....	..	..	..	..	..	..
“ “ “ 9, Discontinued.....	..	..	..	..	..	..
“ “ “ 10.....	73	43	15	32	29	90.6
“ “ “ 11.....	100	37	55	46	41	89.1
“ “ “ 12.....	83	40	31	43	39	90.7
“ “ “ 13.....	93	37	39	46	41	90.4
“ “ “ 14.....	84	31	31	46	43	93.5
“ “ “ 15.....	110	27	29	51	46	90.2
“ “ “ 16.....	98	32	23	50	45	90.0
“ “ “ 17.....	89	30	30	43	41	95.3
“ “ “ 18.....	79	34	42	32	29	92.6
“ “ “ 19.....	68	33	32	41	37	90.2
“ “ “ 20.....	86	43	39	43	38	88.4
“ “ “ 21, Discontinued.....	..	..	..	..	..	..
“ “ “ 22.....	93	30	35	34	30	86.4
“ “ “ 23, Discontinued.....	..	..	..	..	..	..
“ “ “ 24.....	130	58	60	43	38	88.4
“ “ “ 25.....	99	51	47	48	43	89.6
“ “ “ 26.....	88	55	21	43	41	95.3
“ “ “ 27, Discontinued.....	..	..	..	..	..	..

TABLE SHOWING THE ATTENDANCE AT THE VARIOUS SCHOOLS FOR THE YEAR 1883, — *Continued.*

SCHOOLS.	Whole No. Enrolled.	Whole No. Belonging.*		Average Number Belonging.	Average Daily Attendance.	Percentage of Daily Attendance.
		Boys.	Girls.			
Primary School No. 28.....	88	40	44	45	43	95.5
“ “ “ 29.....	127	26	13	37	35	94.5
“ “ “ 30, Discontinued.....	..	..	..	..	..	....
“ “ “ 31  .....	87	28	26	42	37	88.1
“ “ “ 32  .....	96	28	26	39	35	89.7
“ “ “ 33  .....	110	52	44	39	34	87.2
“ “ “ 34.....	82	31	31	43	39	90.7
“ “ “ 35.....	48	14	21	30	28	93.3
Bakersville.....	68	35	27	42	38	90.5
Totals.....		1105	976	1249	1135	90.9
UNGRADED.						
Suburban School, District No. 1.....	15	9		10	9	90.0
“ “ “ “ 2.....	80	28	41	42	38	90.5
“ “ “ “ 3.....	76	35	26	40	36	90.0
“ “ “ “ 4.....	68	35	33	42	39	92.8
“ “ “ “ 5.....	29	8	20	17	14	82.4
“ “ “ “ 6.....	21	7	14	13	10	76.9
“ “ “ “ 7.....	42	20	16	26	22	84.6
“ “ “ “ 8.....	58	27	24	30	25	88.3
“ “ “ “ 9.....	28	13	13	17	15	88.1
Totals. . . . .		182	192	237	208	87.8
Aggregate totals, 1883.....		2061	2001	2848	2612	91.4
Aggregate totals, 1882.....		2086	2009	2957	2712	91.7

\* Exclusive of those received, by promotion or transfer, from other schools in the city.

† The higher grade at Webster-street is marked “Grammar and Middle No. 13,” upon the “School Organization;” but here it is classed as wholly of the grammar grade, and the number of its pupils of middle grade is offset by the number of pupils of grammar grade belonging to Middle School No. 10. This seems to be as equitable an indication of the number of pupils belonging to the respective grades as can well be made.

‡ To effect an adjustment similar to that made for mixed grammar and middle grades, as mentioned in the foregoing note, the mixed middle and primary schools Nos. 1 and 35 are classed as primaries; while No. 14, also mixed, is classed as a middle school.

The latter has been in existence but two terms, — spring and fall. No. 1 Middle, which has been chiefly primary during the past year, and is likely to be altogether such in future, is here classed as No. 2 Primary, in place of the one of that number formerly on Manchester street, but discontinued more than a year ago.

|| The schools constituting the Training School at the end of the year.

## LIST OF TEACHERS AND JANITORS.

## HIGH SCHOOL, — BEECH STREET.

Principal. — Albert W. Bachelor.

Assistants. — George I. Hopkins.

Lucretia E. Manahan.

Emma J. Ela, two terms.\*

William F. Gibson, one term.

Mary A. Buzzell.

Rocilla M. Tuson.

## FRANKLIN-STREET SCHOOLS.

*Second Floor. — Grammar Grades:*

Principal. — Fred C. Baldwin.

Assistants. — Lenora C. Gilford.

Lottie R. Adams.

Carrie E. Reid.

*First Floor. — Lower Grades.†*

No. 8 Middle. — C. Augusta Abbott, one term.

7 Middle. — Hattie G. Flanders, one term.

12 Primary. — Nellie M. James, one term.

11 Primary. — Ella F. Sanborn, one term.

## SPRING-STREET SCHOOLS.

*Second Floor. — Grammar Grades.*

Grammar. — Annie O. Heath.

Grammar, and Middle No. 10. — Lizzie P. Gove.

*First Floor. — Lower Grades.*

No. 9. Middle. — Fannie D. Moulton.

14 Primary. — Emma L. Stokes, two terms.

Nellie I. Sanderson, one term.

13 Primary. — Lucia E. Esty.

26 Primary. — Carrie I. Stevens.

\* Resigned.

† Constituted the Training School during the first two terms of the year, — Sarah E. Sprague, principal. See note on page 176.

## LINCOLN-STREET SCHOOLS.

*Second Floor. — Grammar Grades.*

Principal. — Benjamin F. Dame.

Assistants. — Emma S. Sanborn, two terms.\*

Annie W. Patten, one term.

Mary J. Fife.

Isabelle R. Daniels.

*First Floor. — Lower Grades.*

No. 5 Middle. — Mary F. Barnes.

4 Middle. — Carrie M. Gilmore.

7 Primary. — Eva F. Tuson.

29 Primary. — Emma M. Rowley.

## ASH-STREET SCHOOLS.

*Second Floor. — Grammar Grades.*

Principal. — Edward P. Sherburne.

Assistants. — Austrice G. Flanders, two terms.

Mary E. Bunton, three terms.†

Annie A. Webster.

Bertha L. Dean

*First Floor. — Lower Grades.*

No. 3 Middle. — C. Augusta Abbott, two terms.

Nancy S. Bunton, one term.

2 Middle. — Hattie G. Flanders, two terms.

Kittie J. Ferren, one term.‡

4 Primary. — Helen M. Morrill, two terms.

Emma L. Stokes, one term.

3 Primary. — Georgianna Dow, two terms.

Helen F. Wetherbee, one term.

\* Resigned.

† Two terms, extra division on third floor; nearly one term, substitute for Miss Flanders.

‡ Substitute for Mintie C. Edgerly, elected.



## MAIN-STREET SCHOOLS.

*Second Floor. — Grammar Grades.*

Principal. — Frank S. Sutcliffe.

Assistants. — Cora M. Dearborn.

Lizzie A. Burns, two terms.

No. 11 Middle. — Lizzie A. Burns, one term.

*First Floor. — Lower Grades.*

No. 11 Middle. — Florence McEvoy, two terms.\*

6 Middle. — Ellen E. McKean.

Primary, and Middle No. 14. — Flora M. Senter, two terms.†

34 Primary. — Josephine H. Martin.

## WEBSTER-STREET SCHOOLS.

*First Floor.*

Grammar, and Middle No. 13. — Mary A. Smith.

Middle, and Primary No. 35. — Louisa R. Quint, one term.‡

Maria N. Bower, two terms.

## BLODGET-STREET SCHOOLS.

*First Floor.*

No. 1 Primary. — Gertrude H. Brooks, two terms.

Florence A. Nichols, one term.

*Second Floor.*

Primary, and Middle No. 1. — Nellie I. Sanderson, two terms.

Gertrude H. Brooks, one term.

\* Resigned.

† One of these terms on second floor at South-Main-street.

‡ Resigned.

## LOWELL-STREET SCHOOLS (CORNER CHESTNUT).

*Second Floor.*

- No. 24 Primary. — Mary E. Sylvester, two terms.\*  
 Nina D. Annis, one term.  
 5 Primary. — Ella F. Sanborn, two terms.  
 Helen M. Morrill, one term.

## MANCHESTER-STREET SCHOOLS (CORNER CHESTNUT).

*First Floor.*

- No. 10 Primary. — Mary G. Tynan.  
 18 Primary. — Maria N. Bower, one term.  
 Georgia A. Wyman, two terms.

## MERRIMACK-STREET SCHOOLS† (CORNER UNION).

*First Floor.*

- No. 33 Primary. — Helen F. Wetherbee, two terms.  
 32 Primary. — Nellie M. James, two terms.

*Second Floor.*

- No. 31 Primary. — Mintie C. Edgerly, one term.  
 Clara N. Brown, one term.‡  
 12 Middle.—Nancy S. Bunton, two terms.

## WILSON HILL.

- No. 6 Primary. — Kate M. Follansbee.

## BEECH-STREET SCHOOLS (CORNER SPRUCE).

*First Floor.*

- No. 22 Primary. — Florence A. Nichols, two terms.  
 Georgianna Dow, one term.

\* Resigned.

† Constituted the Training School during the third term of the year. See note on page 173.

‡ Substituted for Miss Edgerly.

## CENTER-STREET SCHOOLS.

*First Floor.*

No. 25 Primary. — Clara E. Woods.

28 Primary. — Belle M. Kelley.

*Second Floor.*

No. 15 Primary. — Jennie F. Bailey.

16 Primary. — Augusta S. Downs.

## SOUTH-MAIN-STREET SCHOOLS.

*First Floor.*

No. 17 Primary. — Alice G. Lord.

20 Primary. — Delle E. Haines.

## SUBURBAN SCHOOLS.

No. 1, Stark District. — Nina D. Annis, two terms.

Josie H. Richardson, one term.

2, Amoskeag. — Etta J. Carley.

“ Jennie G. Stebbins, No. 19 Primary.

3, Bakersville. — Ariana S. Dudley, one term.\*

Nettie C. Woodman, two terms.

S. Izetta Locke, Primary.

4, Goffe's Falls. — Georgie A. Nute.

5, Harvey District. — Mary W. Mitchell.

6, Webster's Mills. — Susie G. Woodman.

7, Hallsville. — Annie W. Patten, two terms.

Addie C. Prescott, one term.

8, Youngsville. — Olive J. Randall.

9, Mosquito Pond. — Olive A. Rowe.

## SPECIAL TEACHERS.

Music. — Jason J. Kimball, three days per week.

\* Resigned.

## MEMBERS OF THE TRAINING SCHOOL.

Kittie J. Ferren†, Mary E. Bunton\*, Georgie A. Wyman‡, Edith M. Stebbins\*, Fannie L. Sanborn†, Ella Hope†, Mary L. Gage\*, Nettie F. Ainsworth\*, Susie H. Frame, Bessie M. Hall\*, Lelia A. Brooks\*, Martha E. Sanborn\*, Alta C. M. Willand\*, Genevieve L. Whitten†, Annie L. Prescott‡.

## JANITORS.

*Webster Street and Blodget Street.*

Charles M. Norton.

*High School, Ash Street, Bridge Street, and Wilson Hill.*

John S. Avery.

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

William Stevens.

*Spring Street and Lowell Street.*

George W. Varnum.

*Merrimack Street and Spruce Street.*

James Watts.

*Piscataquog Schools, consisting of Center Street, Main and South Main Street.*

D. H. Morgan.

\* Certificated for grammar and lower grades.

† Certificated for middle and primary grades.

‡ Certificated for primary grades.



REVISED HIGH SCHOOL COURSE OF STUDY. — ADOPTED JANUARY 4, 1884.

ENGLISH COURSE. <i>2, 3, or 4 years.</i> STUDIES ALL IN ENGLISH.	SCIENTIFIC COURSE. <i>3 or 4 years.</i> ENGLISH AND FRENCH.	CLASSICAL COURSE. <i>3 or 4 years.</i> ENGLISH AND LATIN, WITH FRENCH IF DESIRED.	COLLEGE PREPARATORY. <i>4 years.</i> ENGLISH, LATIN, AND GREEK.
Algebra. English Grammar and Composition. Physiology.	FIRST YEAR. Algebra. English Grammar and Composition. Physiology.	FALL TERM. Algebra. Latin. Physiology.	Algebra. Latin. Physiology.
Algebra. English Grammar and Analysis. Physical Geography.	WINTER Algebra. English Grammar and Analysis. Physical Geography.	TERM. Algebra. Latin. Physical Geography.	Algebra. Latin. Physical Geography.
Algebra. Rhetoric. Physical Geography.	SPRING Algebra. Rhetoric. Physical Geography.	TERM. Algebra. Latin. Physical Geography.	Algebra. Latin. Physical Geography.
Commercial Arithmetic. Studies in English. Physics.	SECOND YEAR. Commercial Arithmetic. Studies in English. Physics.	FALL TERM. Commercial Arithmetic. Latin. Physics.	History and Geography of Rome. Latin. Physics.
Book-keeping and Arithmetic. Civil Government. Physics.	WINTER Book-keeping and Arithmetic. Civil Government. Physics.	TERM. Latin. Civil Government. Physics.	Latin. Greek. Physics.
Book-keeping and Arithmetic. Physics. Botany.	SPRING Book-keeping and Arithmetic. Physics. Botany.	TERM. Latin. Physics. Botany.	Latin. Greek. History and Geography of Greece.

<p>Geometry. Ancient History. Astronomy.</p>	<p><b>THIRD YEAR.</b> Geometry. French. Astronomy.</p>	<p><b>FALL TERM.</b> Ancient History. Astronomy. TERM. Modern History. Zoology. TERM. English History. Mineralogy and Geology.</p>	<p>Geometry. Latin in place of either, or Latin and French in place of both. Geometry. Latin in place of either, or Latin and French in place of both. Geometry. Latin in place of either, or Latin and French in place of both.</p>	<p>Geometry. Latin. Greek. Geometry. Latin. Greek. Geometry. Latin. Greek.</p>
<p>Geometry. Modern History. Zoology. Geometry. English History. Mineralogy and Geology.*</p>	<p><b>WINTER</b> Geometry. Modern History. French. <b>SPRING</b> Geometry. English History. French.</p>	<p><b>FALL TERM.</b> Arithmetic or Trigonometry. English History. Chemistry. TERM. English Authors. Mental Philoso- phy. Chemistry. TERM. Botany. Political Economy.</p>	<p>Arithmetic, reviewed. Latin. Greek. Algebra, reviewed. Latin. Greek. Geometry, reviewed. Latin. Greek.</p>	
<p>Arithmetic or Trigonometry. English History. Chemistry. English Authors. Mental Philosophy or Surveying. Chemistry.</p>	<p><b>FOURTH YEAR.</b> Arithmetic or Trigonometry. French. Chemistry. <b>WINTER</b> English Authors or Surveying. French. Chemistry. <b>SPRING</b> English Authors or Surveying. French. Political Economy.</p>	<p><b>FALL TERM.</b> Arithmetic or Trigonometry. English History. Chemistry. TERM. English Authors. French or Survey- ing in place of either, or French and Surveying in place of both. TERM. English Authors. French or Sur- veying in place of either, or French and Surveying in place of both.</p>	<p>Arithmetic, reviewed. Latin. Greek. Algebra, reviewed. Latin. Greek. Geometry, reviewed. Latin. Greek.</p>	

\*Mineralogy, Geology, and Botany given special local application. (See next page.)

It is designed that every pupil shall have three of the foregoing studies each term, and four recitations a week in each study, Wednesday of each week being a day for general exercises.

Trigonometry and Surveying, French and Latin, as well as Greek and other studies necessary for admission to college, are elective. Pupils can pursue no other course than the English, except upon the written request of their parents or guardians, who shall specify which one of the other courses is desired for the pupil in whose behalf the request is made.

Provision is made for a course of two years in French, three years in Latin, or four years in Latin and nearly three in Greek for those preparing for college.

Drill exercises are to be required weekly, for all, throughout the course, as follows: In Spelling, Elocution, and Reading, every term; in Penmanship, during the first four terms, to be followed by practice obtained in two terms at Book-keeping; in Music (by those choosing it), every term; and an exercise in studying English one hour and a half weekly will be required for six terms, to connect the study of Grammar and Rhetoric with the work finally to be done in English Authors. Geography of New Hampshire is also to be taken one hour weekly for two terms. One hour and a half is to be devoted weekly to usual rhetorical exercises. All the exercises named in this paragraph are to be taken on Wednesdays.

Music and Drawing are optional, under certain restrictions. The time-table will afford further details.



## LANGUAGE.

The following exercises were given within the year, for the chief purpose of ascertaining what facility and correctness pupils had acquired in the use of language.

The first and second exercises also indicate, to some extent, the power of pupils to gather ideas from silent reading.

FIRST DIVISION OF GRAMMAR GRADE.—EIGHT-YEARS PUPILS.

Pupils were allowed about six minutes for reading silently the following narrative. They then immediately wrote it from memory, and were allowed about an hour for the writing.

“Cyrus, the Persian prince, had many masters, who endeavored to teach him every thing that was good; and he was educated with several little boys about his own age. He was a boy of a very good disposition, and a humane temper; but even in his youthful games he showed a strong desire to command, and other boys used to make him their king. One evening, his father asked him what he had done or learned that day. ‘Sir,’ said Cyrus, ‘I was punished to-day for deciding unjustly.’—‘How so?’ said his father.—‘There were two boys,’ said Cyrus, ‘one of whom was a great, and the other a little, boy. Now, it happened that the little boy had a coat that was much too big for him, but the great boy had one that scarcely reached below his middle, and was too tight for him in every part. The great boy proposed to the little boy to change coats with him; “because then,” said he, “we shall be both exactly fitted, for your coat is as much too big for you, as mine is too little for me.” The little boy would not consent to the proposal; upon which the great

boy took his coat away by force, and gave his own to the little boy in exchange. While they were disputing upon this subject, I chanced to pass by, and they agreed to make me judge of the affair. But I decided that the little boy should keep the little coat, and the great boy the great one. for which judgment my master punished me.' — 'Why so?' said Cyrus's father, 'was not the little coat most proper for the little boy, and the large coat for the great boy?' — 'Yes, sir,' answered Cyrus, 'but my master told me I was not made judge to examine which coat best fitted either of the boys, but to decide whether it was just that the great boy should take away the coat of the little one against his consent; and therefore I decided unjustly, and deserved to be punished.' "

It is proper here to say that, in all the exercises, pupils were required to write at once with pen and ink and return their first draft, no copies being allowed.

Below may be found the best paper marked "A." and an average paper marked "B," from each of our three grammar schools having a first division. The schools are respectively designated by the numbers 1, 2, 3.

The difference in the form of the given "subjects" may be explained by the fact that pupils were told to select such a title, for their several pieces, as might seem most suitable.

#### (1 A.)

#### UNJUST JUDGMENT.

"Cyrus, the Persian prince, had many masters, who endeavored to teach him everything that was good, and he was educated with several other little boys about his own age.

He was of a good disposition, and a humane temper; but even in his youthful games, he showed a strong desire

to command, and other boys used to make him their king.

One day, his father asked him what he had done that day. ‘Sir,’ said Cyrus, ‘I was punished to-day for deciding unjustly.’—‘How so?’ asked his father. ‘Two boys,’ answered Cyrus, ‘one a great, and the other a little, boy, met each other. Now, it so happened that the little boy had on a coat that was much too large, and hung loosely upon him, while the great boy had on one that came only to his middle, and was tight in every part. Noting this, the great boy proposed to change with the other, “because,” he said, “your coat is as much too large for you as mine is small for me.” But the little boy would not consent to this, whereupon, the great boy took away the large coat by force from the little boy, and gave him his small one in return. I chanced to pass by as they were arguing, and they agreed to leave the matter to me. But I judged that the little boy should keep the small, and the great boy the large, coat, and therefore I was punished.’

‘But why?’ asked his father, ‘was it not proper that the great boy should have the large coat, and the little boy the small one?’

‘My master told me,’ answered Cyrus, ‘that I was not made judge to examine about the size of the coats, but whether it was right for the great boy to take the little boy’s coat without his consent. I judged unjustly, and so deserved to be punished?’

(2 A.)

#### THE PRINCE’S DECISION.

Cyrus, the Persian Prince, had a great many masters, who tried to teach him all that was good.

Cyrus had a good disposition, and a humane temper. One evening the boy’s father asked him what he had done or learned that day. “Sir,” said Cyrus, “My master

punished me for deciding unjustly." "How so?" inquired his father.

"It happened, that a little boy had a coat, that was much too large for him and that a great boy had one that was very small for him. The great boy wanted the little one to exchange coats. 'For then,' said he, 'We shall be exactly fitted, for your coat is as much too large for you, as mine is small for me.' The little boy would not consent to this and the great boy took the coat away from him by force.

I happened to pass by just then, and they consented to leave it to me; but I decided that the little boy should keep the little coat, and that the great boy should keep the large coat, for which decision my master punished me."

"But why," asked his father, "Was it not proper that the little boy should have the little coat, and that the great boy should have the large one"?"

"Yes," said Cyrus, "But my master said I was not to judge, which of the coats fitted either of the boys the best, but whether it was right for the great boy to take the little boy's coat away from him without his consent, and so I deserved punishment"

### (3 A.)

#### AN ANECDOTE OF CYRUS, THE PERSIAN PRINCE.

Cyrus the Persian prince, had many masters who endeavored to teach him every-thing that was good. He had a very good disposition and a humane temper, and in his youth he showed a strong desire to command, and in the games which he played when a boy the others would make him their chief. One evening his father asked him what he had done or learned that day. 'Sir,' said Cyrus, I was punished to-day for deciding unjustly, why was that asked his father.

There were two boys, said Cyrus,—a great one and a little one, the little boy had a coat on that was very much too large for him, and the great boy's coat was too tight for him in every way, and meeting the little boy, he asked him to change coats with him for said he we shall be just fitted, but the little boy would not consent to the proposal and the great boy took it away from him by force. While they were disputing I chanced to pass along and they agreed to make me their judge, and I decided that the great boy should keep the great coat and the little boy should keep the little coat. well said his father, is it not proper that the great boy needed the great coat and the little boy the little coat. My master told me, — said Cyrus; that I was not made to judge whether the coats fitted them but whether the great boy did right in taking away the coat against the little boy's consent, and I decided wrong and deserved to be punished.

(1 B.)

#### CYRUS, THE UNJUST PRINCE.

Cyrus, a Persian prince, had many masters who tried to teach him everything that was right. He had many small boys, of his own age, who were taught right the same as himself. One evening, his father asked him what he had done to please somebody, and he answered, "Father, I have acted unjust." "Why, so," asked his father. "Two boys were standing by, one was a large and the other a small, boy. The larger one had on a coat that was very much too small for him, and the smaller one had one that was very much too large for him. Said the larger boy to the smaller,—“Let us change coats for mine is as much too small for me as yours is too large for you.” The smaller boy did not wish to, so the larger boy one pulled it off from him, and put it onto himself,

and left the smaller boy the smaller coat. Just at that moment, I passed by, and they decided to make me judge over this affair, and therefore asked me which coat I thought each ought to have. I said, — “I should think that the smaller boy should have the smaller coat, and the larger boy the larger one. When I arrived home my masters told me that I should not have judged which boy should have which coat, but if it was right for the larger boy to snatch the smaller boy’s coat from him and not ask for him to consent. So as I have explained I have done unjust to-day.

(2 B.)

#### A QUICK DECISION.

“Cyrus,” a Persian Prince, had a great many masters who wanted to make him good, he was well educated and went to school with many little boys of his age.

He had a good disposition, and a humane temper, but when he was at play, he liked to command and the little boys always made him king.

One evening his father asked, “Cyrus,” “what have you learned or done to-day?”

“Father,” said Cyrus, “I was punished for a decision,” which I made.

“Well,” said his father, “what is it that you decided about?”

“Father,” said Cyrus, “as I was going along I saw two boys.” “One was a very large boy, and the other was very small.”

“The small boy had a coat on, that was too large for him,” and, “the large boy, a coat on that was very tight for him.”

The large boy wanted the small boy to exchange coats as they would fit better.

The little boy refused to do so, but the large boy forced the coat from him.

When the two boys saw me coming along they wanted me to judge which coats each one ought to have.

I then said, the little boy should have the small coat and the large boy, the large coat.

The master saw me and I was punished for it.

He said I was not to say which boy should have the coat, but to see which one did right in the dispute.

(3 B.)

#### CYRUS'S DECISION.

There was a young Persian prince named Cyrus, who had many masters, and they all endeavored to teach him everything that was great and good. When in play with his companions, he was noticed to have a strong desire to command, and they generally made him 'king.' 'Well' said his father to him one evening 'what have you learned to day that is just and good?'

'Sir'—replied Cyrus 'I have been severely punished by my master for deciding unjustly' .. 'What for?'" asked his father. "Well it happened thus" replied Cyrus.

'There are two boys, one a large boy and the other a small boy. They each have two coats, but the small boy's coat is quite too large for him, and the large boy's coat is too small and tight for him. These boys both met one day and the large boy proposed that they should exchange coats. The other boy did not want to do this when the large one took his coat by force from him.

'I chanced to be passing by when they were engaged in this discussion, and was called upon by them to act as judge and decide what they should do. I decided that the large boy should have the large coat, and the small boy the

small coat. "Why was that not just?" asked his father? Well said Cyrus my master said that I was not to act as judge for any one who would take a boy's coat by force from and that I had decided unjustly so he punished me.'

#### HIGHER MIDDLE SCHOOLS.—FIVE-YEARS PUPILS.

The exercise for these schools was, in general, conducted in a manner similar to that just described. The modifications, however, may be seen from the material furnished pupils, as follows:—

##### THE DEER FAMILY.

(Pupils are to retain these papers but ten minutes, and during this time they are not to be allowed to do *any* writing.)

Pupils will therefore fix their attention upon what is here said in print, so they can soon rewrite the facts quite fully.)

The deer family includes many species. They are all harmless and timid, always seeking safety in flight rather than in defense.

All the males of this family, and the females of the reindeer species, have horns,—many of them long and branching. Deer are noted for beauty of form, speed, and acuteness of hearing.

The body and legs are long and slender: the ears are quite large and can be turned forward or backward with equal facility: the eyes are full and bright: the feet are cloven. In winter, the body is covered with long, shaggy, grayish hair, which it sheds in early summer; and a new growth of fine, short, reddish-brown hair soon appears. This family is found in every continent except Australia, and differs from all other families of ruminants in one particular,—that of shedding its horns, or antlers, as they are



called, annually, new ones soon appearing and attaining their full size in three months.

The horns, while growing, are covered with a thick, velvety skin, containing many veins, which are filled with material for their growth. The growth of the horns is checked by the formation of rings of bone at their base. This obstructs the veins that convey the horn material; the velvety skin then dries and falls off without pain, leaving on the horns long deep grooves that show plainly where the veins were located.

The food of this family, living in cold climates, is twigs and buds of shrubs, moss and lichens; and of those inhabiting warm regions, grass, leaves of trees and of pond lilies. The usual weight of a full sized deer is about two hundred pounds.

Its flesh, called venison, is considered a great delicacy and commands a high price in the market. From its skin is obtained a kind of soft leather, called buckskin. This is much used for gentlemen's gloves. From its horns, knife-handles, cane-heads and buttons are made.

#### \* QUESTIONS ON THE DEER.

(Having looked over the article on "The Deer Family," you are now asked to write a description similar to that which you have just read, *for the chief purpose of showing how well you have learned to use language.*

These questions are allowed you merely to assist the memory in recalling the description. A continuous story is wanted.)

1. What animal is the subject of this lesson?
2. What do you know of its disposition?
3. When pursued, what will it do?
4. Which sex invariably has horns?
5. In what species do all have horns?

\* To THE TEACHER.—Pupils are not to have these questions until the papers containing the description have been taken from them.

6. For what are deer noted ?
7. Where are they found ?
8. Describe their bodies, legs, feet, ears, eyes.
9. What is usually their color in winter ? in summer ?
10. In what particular does this family differ from all other families of ruminants ?
11. In what time do the horns attain full size and length ?
12. With what are the horns covered while growing ?
13. Why do they stop growing ?
14. How often do the horns fall off ?
15. What may be seen on the surface of the horns ?
16. What is the food of deer ?
17. What is its usual weight ?
18. What is its flesh called ?
19. What use is made of its skin ? flesh ? horns ?

The following result is the best from one of the schools : —

#### THE DEER FAMILY.

The deer family includes many species, all are very timid and take safty in flight rather than defence. Deer are noted for their beauty, their speed and their acuteness of hearing. All the males, and the females of the reindeer, have horns ; their horns are usually long and branching. This family is found in all the continents except Australia. Their bodies and legs are long and slender, their feet are cloven, their ears are large and can be turned back or forward with equal facility, their eyes are large and prominent. In winter they are covered with long shaggy hair which they shed in early summer, then a fine reddish brown hair grows out. The deer differs from other ruminants in one way, they shed their horns annually. While growing the horns are covered with a thick velvety skin in which are many veins which contain the horn material.

The growth of the horn is checked by a formation of rings of bone at the base. This obstructs the veins, the velvety skin then dries up and falls off without pain, leaving on the surface of the horn long deep grooves showing plainly where the veins were located. The food of those inhabiting cold countries is grass, buds of shrubs, moss, and lichens, those inhabiting warm countries is leaves of trees, grass, and pond lilies. The usual weight of a full grown deer is about two hundred pounds. The flesh is called venison and is considered a great delicacy and commands a high price in the market. Out of its skin is made a soft kind of leather called buckskin and is much used for gentlemen's gloves; its horns are made into knife-handles, cane-heads, and buttons, ect.

The following is an average result from another of the schools: —

#### THE DEER FAMILY.

The subject of this lesson is the deer family. The deer has a very gentle disposition and will flee for safety. The male always has horns. The rein-deer always has horns. The deer is noted for its quick smell, quick hearing, and beauty of shape. The deer is found in all continents except Australia. Their bodies are long and slender, their legs are long and slender also. Their feet are cloven, their ears are long can be draw backward and forward, its eyes are large and full.

Their usual color in winter is a shaggy grayish color and in summer it is red. They are different from other ruminants because they shed their horns. They attain full length and size in about three months. The horns are covered with a soft velvety skin while growing. They stop growing when they get their growth. They fall off once a year. Deep grooves may be seen where the veins were

located. The food of the deer in warm climates is moss, lichens and twigs, in cold climates they eat leaves of trees and pond lilies. Its usual weight is two hundred pounds. Its flesh is called venison. The use of its skin is to make buckskin gloves; its flesh is used for food and is sold at market at a high price; the horns are used to make cane-heads, knife-handles, and buttons.

#### LOWER MIDDLE SCHOOLS.—FOUR-YEARS PUPILS.

(Same grade as the last year primary in most places.)

In this exercise, teachers gave such oral instruction in regard to the "Cow" as they could in fifteen or twenty minutes. The pupils then immediately reproduced in writing the substance of what was taught.

The following result is the best from one of the schools:—

#### THE COW.

The cow is called herbivorous because she eats grass.

She has four stomachs; her food goes down in one and is moistened, then it goes into the second one and is rounded up into little balls. It then goes up into her mouth again and she chews it. Then it goes down in her third one, then in her fourth stomach and is digested.

The cow is very useful. We make buttons and combs out of her horns, and put her hair into mortar and make glue of her hoofs.

She gives us butter, milk and cheese.

Her hoofs are split and we call them cloven hoofs, inside her hoofs she has got two toes.

She is very slow in her movements.

Some people paint the cow's head because her eyes are so pretty.

All animals that chew their cuds are called ruminants.

The cow has no upper teeth in front, but eight under ones, and she has six back ones in both gums.

The following is an average result from another of the schools : —

#### THE COW.

The cow belongs to the hollow-horned order of Ruminants, or Cud-chewing animals. The cow is from six to seven feet long, the cow's tail is long and bushy. I think it is bushy because it is to brush off the insects that trouble her. The cow has no front teeth on the upper jaw, but she has some side teeth and they are called the grinding teeth. When she eats she strikes her upper jaw with her lower teeth. The cow has a large stout body; her head is large and long; her legs are stout; her eyes are pretty, large and brown. The flesh supplies us with beef for food, her skin gives us hides for boots and shoes, her feet gives us glue; her horns gives us combs, buttons and knife handles. There is a kind of a cow called the "grunting cow," she lives in Asia. The cow is more useful than the horse. The cow eats grass and hay. I like the cow, don't you?

## INVENTORY OF SCHOOL-HOUSES.

High-School house and lot . . .	\$50,000 00	
Furniture, charts, maps, books, and apparatus . . . . .	2,000 00	\$52,000 00
Franklin-street house and lot . . .	18,000 00	
Furniture, maps, etc. . . . .	400 00	18,400 00
Spring-street house and lot . . . .	15,000 00	
Furniture, maps, etc. . . . .	400 00	15,400 00
Lincoln-street house and lot . . . .	50,000 00	
Furniture, maps, etc. . . . .	400 00	50,400 00
Ash-street house and lot . . . . .	58,000 00	
Furniture, maps, etc. . . . .	400 00	58,400 00
North-Main-street house and lot . . .	17,000 00	
Furniture, maps, etc. . . . .	600 00	17,600 00
Webster-street house and lot . . . .	16,000 00	
Furniture, maps, etc. . . . .	350 00	16,350 00
Blodget-street house and lot . . . .	3,500 00	
Furniture, maps, etc. . . . .	150 00	3,650 00
Bridge-street house and lot . . . . .	900 00	900 00
Lowell-street house and lot . . . . .	7,000 00	
Furniture, maps, etc. . . . .	400 00	7,400 00
Manchester-street house and lot . . .	8,500 00	
Furniture, maps, etc. . . . .	300 00	8,800 00
Merrimack-street house and lot . . .	15,000 00	
Furniture, maps, etc. . . . .	550 00	15,550 00
Wilson-Hill house and lot . . . . .	3,300 00	
Furniture, maps, etc. . . . .	100 00	3,400 00
Beech-street house and lot . . . . .	7,000 00	
Furniture, maps, etc. . . . .	350 00	7,350 00
Center-street house and lot . . . . .	5,000 00	
Furniture, maps, etc. . . . .	425 00	5,425 00
South-Main-street house and lot . . .	2,800 00	
Furniture, maps, etc. . . . .	200 00	3,000 00

Bakersville house and lot . . .	\$13,000 00	
Furniture, maps, etc. . . . .	600 00	\$13,600 00
Stark-District house and lot . . .	3,000 00	
Furniture, maps, etc. . . . .	150 00	3,150 00
Amoskeag house and lot . . . . .	3,700 00	
Furniture, maps, etc. . . . .	125 00	3,825 00
Goffe's-Falls house and lot . . . .	3,600 00	
Furniture, maps, etc. . . . .	100 00	3,700 00
Harvey-District house and lot . . .	2,500 00	
Furniture, maps, etc. . . . .	125 00	2,625 00
Webster-District house and lot . . .	600 00	
Furniture, maps, etc. . . . .	50 00	650 00
Hallsville house and lot . . . . .	3,500 00	
Furniture, maps, etc. . . . .	125 00	3,625 00
Youngsville house and lot . . . . .	1,400 00	
Furniture, maps, etc. . . . .	125 00	1,525 00
Mosquito-Pond-Dist. house and lot .	1,200 00	
Furniture, maps, etc. . . . .	100 00	1,300 00
Park-street house and lot . . . . .	8,500 00	8,500 00
		<hr/>
		\$326,525 00

## COUNTY STATISTICS OF SCHOOLS

	Belknap.	Carroll.	Cheshire.
Towns having organized schools.....	11	18	23
Different public schools .....	154	200	270
Graded schools.....	22	8	57
Town and district high schools.....	2	1	9
Boys attending school two weeks or more.....	1,669	1,979	3,082
Girls attending school two weeks or more.....	1,548	1,705	2,853
Average attendance of all the scholars.....	2,420.69	2,462.00	4,246.04
Ratio of average attendance to the whole number..	.752	.668	.717
Number reported attending private schools, not registered in public schools.....	153	37	104
Number reported between the ages of five and fifteen, not attending any school.....	126	95	193
Selectmen's enumeration between { Boys.....	329	1,168	1,641
five and fifteen years ..... { Girls.....	334	1,157	1,508
Number pursuing higher branches.....	390	446	913
Male teachers .....	20	64	47
Female teachers.....	172	189	322
Number of school-houses.....	127	181	224
Built during the year.....	1	1	1
Estimated value of buildings, sites, and furniture..	\$82,450.00	\$63,675 00	\$233,086.95
Estimated value of apparatus.....	1,035.00	990.85	3,675.00
Town taxes.....	17,816.52	16,651.83	48,928.67
District taxes.....	3,611.37	3,114.61	8,883.64
Literary from the state.....	1,330.65	2,748.48	4,659.87
Local funds.....	388.42	796.84	945.97
Railroad tax.....	400.41	23.95	86.63
Dog tax.....	411.41	528.13	811.47
Contributed in board, fuel, and money.....	290.94	651.44	230.30
Entire amount of revenue.....	24,294.72	24,515.28	62,546.55
New buildings.....	880.00	.....	2,451.00
Permanent repairs.....	1,060.94	1,276.45	5,268.71
Miscellaneous expenses, ordinary repairs, fuel, care, etc.....	1,517.28	1,533.22	4,017.18
Teachers' salaries .....	17,178.26	13,312.46	41,188.60
Superintendence.....	667.50	676.95	1,208.25
Total expended.....	22,347.41	23,123.64	57,760.72
Average cost per scholar, miscellaneous expenses and teachers' salaries.....	5.86	5.36	6.56



## IN NEW HAMPSHIRE, 1882.

Coos.	Grafton.	Hillsboro'.	Merrimack	Rocking- ham.	Strafford.	Sullivan.	Totals.
21	39	31	27	37	13	15	235
197	418	445	354	271	204	200	2,713
12	43	130	67	63	68	16	486
3	6	9	4	7	5	4	50
2,131	4,065	6,773	4,204	4,425	3,090	1,905	33,323
1,960	3,934	6,376	4,146	4,213	3,030	1,766	31,531
3,167.74	4,850.55	8,720.05	6,154.56	6,326.42	4,875.09	2,847.40	46,070.54
.789	.606	.663	.606	.732	.796	778	.....
64	100	3,216	260	459	102	111	4,606
202	335	276	406	465	782	198	3,073
390	1,255	967	946	503	364	554	8,117
338	881	936	823	831	555	288	7,651
538	2,382	1,495	789	2,894	1,824	868	12,539
29	69	52	45	64	38	32	460
221	504	....	426	309	218	225	3,090
146	367	294	308	243	147	172	2,209
9	4	4	2	....	1	2	25
\$55,875.00	\$ 203,297.00	\$ 707,041.08	\$ 331,285.00	\$ 262,385.00	\$ 338,925.00	\$ 73,965.00	\$ 2,351,985.03
764.50	2,888.00	15,509.75	5,963.00	5,978.50	3,392.00	1,395.00	41,591.64
18,313.23	41,084.23	135,403.19	56,452.86	67,927.81	46,165.81	20,556.20	469,300.45
3,016.05	2,114.31	20,635.42	22,737.03	5,987.50	17,065.00	4,425.36	91,590.29
2,577.32	3,688.61	5,659.50	3,535.58	4,154.55	5,001.27	1,728.09	33,083.92
239.39	10,136.56	1,669.51	1,519.07	1,220.19	50.00	335.06	17,251.01
596.78	921.61	310.86	542.58	1,029.74	1,844.78	34.76	5,972.10
327.36	937.52	1,612.88	901.74	1,011.94	451.46	278.94	7,072.85
1,051.25	2,687.87	958.84	1,435.37	375.28	153.30	867.52	7,870.43
26,121.38	61,570.71	166,250.20	87,124.23	81,707.01	70,731.62	28,225.93	633,042.63
3,294.04	1,649.00	22,647.70	901.25	543.93	1,631.00	1,155.57	35,153.49
977.51	2,457.06	9,793.75	4,675.67	5,776.00	6,515.00	907.70	38,708.86
1,032.23	5,170.08	23,267.74	8,847.07	7,187.64	5,450.89	1,844.78	38,927.11
19,122.36	42,532.74	102,280.03	59,018.59	59,640.87	50,371.92	20,706.31	430,352.14
640.51	1,436.10	4,526.19	3,085.96	1,258.55	625.50	745.81	14,871.32
26,035.99	57,934.98	162,694.77	84,143.45	76,473.57	69,623.13	25,749.38	605,887.04
5.45	5.54	8.33	7.09	6.79	7.89	5.48	.....

## EXTRACTS FROM STATE LAWS.

Our state law requires that the school committee shall call the attention of parents, guardians, masters, and others to section 14, chapter 91 of the General Laws of New Hampshire. The section is here quoted for that purpose :

“SECT. 14. Every parent, guardian, master, or other person having the custody, control, or charge of any child between the ages of eight and fourteen years, residing in any school district in which a public school is annually taught for the period of twelve weeks or more within two miles by the nearest traveled road from his residence, shall cause such child to attend such public school for twelve weeks at least in every year, six weeks at least of which attendance shall be consecutive, unless such child shall be excused from such attendance by the school committee of the town, or the board of education of such district, upon its being shown to their satisfaction that the physical or mental condition of such child was such as to prevent his attendance at school for the period required, or that such child was instructed in a private school or at home for at least twelve weeks during the year, in the branches of education required to be taught in the public schools, or, having acquired those branches, in other more advanced studies.”

Sections 11, 12, and 13 of chapter 91 of the General Laws of New Hampshire, as amended by an act approved August 9, 1881, read as follows :—

“SECT. 11. No child under sixteen years of age shall be employed in any manufacturing establishment, unless he has attended some public school, or private day school where instruction was given by a teacher competent to instruct in the branches taught in the common schools, at

least twelve weeks during the year preceding ; and no child under said age shall be so employed except in vacation of the school in the district in which he resides, who cannot write legibly and read fluently in readers of the grade usually classed as third readers.

“ SECT. 12. No child under the age of fourteen years shall be employed as aforesaid unless he has attended school as aforesaid at least six months during the year preceding, or has attended the school of the district in which he dwelt the whole time it was kept during the year ; and no child under twelve years of age shall be so employed unless he has attended the school of the district in which he dwelt the whole time it was kept during the year preceding.

“ SECT. 13. The owner, agent, or superintendent of any manufacturing establishment, or any person connected therewith, who shall employ in such establishment any child under the age of sixteen years, without a certificate signed by a majority of the school committee of the town or city in which the child resides, or by such person or persons as they may designate for the purpose, that such child has attended school, as required by sections eleven and twelve of this chapter, shall be fined not exceeding twenty dollars for each offense.”

#### ENCOURAGEMENT OF LITERATURE.

Extract from the Constitution of New Hampshire : —

ART. 83. “ Knowledge and learning generally diffused through a community being essential to the preservation of a free government, and spreading the opportunities and advantages of education through the various parts of the country being highly conducive to promote this end, it shall be the duty of the legislators and magistrates, in all future periods of this government, to cherish the interests of literature and the sciences, and all seminaries and public schools,

to encourage private and public institutions, rewards, and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures, and natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and economy, honesty and punctuality, sincerity, sobriety, and all social affections and generous sentiments among the people."

REPORT

OF THE

CHIEF ENGINEER OF THE FIRE DEPARTMENT.



REPORT  
OF THE  
CHIEF ENGINEER OF FIRE DEPARTMENT.

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ENGINEERS' OFFICE, VINE STREET,  
MANCHESTER, N. H., December 31, 1883.

*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, 1883, giving amount of property connected therewith, as well as the fires and alarms to which the department has responded.

During the year just closed there have been only thirteen alarms, four of which needed no assistance from the department, thus leaving but nine actual fires, and none of those of a very severe nature, as figures in the table of fires, etc., will indicate. The last few years have been exceptional ones as to freedom from losses by fire in our city, and while the year 1883 has been more disastrous to insurance companies throughout the country than for many years, it has been the most favorable to Manchester in that respect.

Considering the inflammable material of which a large majority of our buildings are composed, and the careless manner in which many of them are put together, the infrequency of fires in our midst is remarkable.

## ORGANIZATION.

The present organization of the department includes one hundred and fourteen members, as follows: —

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

In addition to the above is one hand-hose company of 20 volunteers, not under pay.

## THE APPARATUS,

with but one or two exceptions, was never in better condition. The supply wagon is much too light for the service required of it, and I would suggest the transfer of the wagon known as "City No. 1" to this department, to take the place of the one in present use.

The hose carriage spoken of in my last report has been purchased, and a company of twelve men organized and put into service on the first of July. This company is located on Park street, corner of Massabesic, and is known as "Merrimack Hose Co. No. 4."

A new carriage has been supplied the Massabesic Hose Co. No. 2, and their old one transferred to Amoskeag village, where it is to be used as a hand carriage for that immediate section. It is manned by a volunteer company of active young men of that vicinity who, I have no doubt, will render efficient service when occasion requires.

The N. S. Bean Steamer No. 4. has just been supplied with a set of new wheels, and also been thoroughly painted.



The apparatus, as at present located, 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 Horse Hose Carriage, corner Park and Massabesic sts.
- 1 Hand Hose Carriage, at junction of Old Falls road and Front street, 'Skeag.
- 1 2-wheeled Hose Carriage, Derry Mills, Goffe's Falls, manned by men at the mills.

#### THE BUILDINGS

occupied by the department require some improvements. The greatest need is the change of location of the horses of the Hook and Ladder Company. It is not only inconvenient but dangerous to run the horses out of the stalls as at present arranged. With no great expense I think the stable might be remodeled, and the horses stand facing the truck. This would also necessitate changing over or widening the front doors of their house.

Another much needed improvement is the construction of troughs in the hose and steamer houses, for the purpose of washing hose.

#### THE HOSE.

All the leather hose has been oiled the past season, at the same time tested, and is now in good condition.

#### SWINGING HARNESES.

A pair of the "Berry Patent Swinging Fire Harnesses" are now on trial by the Amoskeag Steamer Company, and have

\* Two of which are in reserve.

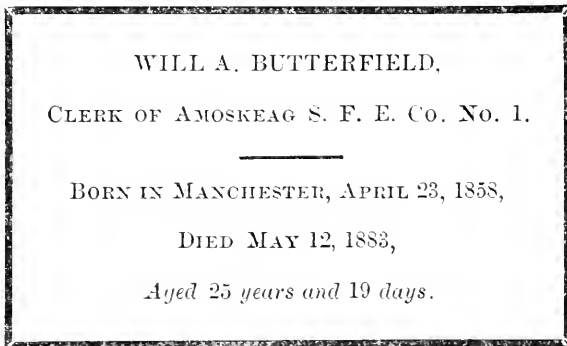
thus far proved all that is claimed for them. They are in general use in most of the larger cities, and I am of the opinion it is but a question of time (and that a short time) that they will be adopted and supplied the department. They are a great relief to the horses while standing in the stable, and are expeditious in hitching up.

#### THE ANNUAL PARADE.

The fourth annual parade occurred on Friday, October 12, with the usual exercise. By its occurrence it gives the citizens a chance to see the material upon which they rely for safety in case of fires.

#### DEATH

has entered our ranks and taken from among us our esteemed and faithful member,



His funeral, which occurred Monday, May 14, was attended by the entire department.

#### CAUSES OF FIRE.

No year passes without the origin of many fires being set down as "unknown," and in a majority of cases the cause may be attributed to "carelessness with ashes." It is surprising to what an extent ashes are kept in wooden barrels,

boxes, and the like. Another, and probably a greater, cause, is *defective chimneys*. Too much care cannot be taken in respect to these matters.

#### FIRE-ALARM TELEGRAPH.

This important branch has performed its duties in a reliable manner, and has received careful attention. The severe lightning during the summer months did considerable damage, at one time burning off the wires in eight places. Repairs in each case were commenced as soon as the storm would permit, and the lines shortly put in order.

During the year a striker has been attached to the bell on the Webster-street school-house, an alarm-box (No. 54) has been located at the corner of Wayne and Main streets in 'Squog, and indicators placed in each of the companies' houses. There is need of other alarm-boxes in different localities, but before many more additions are made to any of the circuits, the whole system should be re-arranged. This is a matter the city councils might well consider.

#### THE FIREMEN'S RELIEF ASSOCIATION.

While the demands on the treasury of this association have not been very large this year, still the funds are becoming less; and as they are used for the relief of its members who are "injured while at, going to, or returning from a fire," it is hoped our citizens will not let it lack for means.

There was in the treasury at the last annual	
meeting in February . . . . .	\$1,030 74
Cash received for membership . . . . .	1 00
	<hr/>
	\$1,031 74
Cash paid out . . . . .	161 00
	<hr/>
Balance now in treasury . . . . .	\$870 74

## CONCLUSION.

It seems useless to again mention the matter pertaining to the arrangement of the horses of the department; still I cannot close this report without calling the attention of the city councils to it. A certain limit should be established beyond which none of the horses used for fire purposes should be taken for work upon the streets.

The hose companies in the eastern sections of the city were established so that in cases of fire in their vicinity aid might be near at hand, and yet the horses of these two companies are, during many of the working hours, farther away than the ones on duty at the central station. Then again, the Hook and Ladder horses are often too far from their house to reach a fire as soon as they should. Ladders are frequently among the first things needed at a fire; thus, while there is but one company of this kind in our department, a pair of horses should either be in the stable all the time, or in close proximity to it, in case of an alarm. I earnestly hope this will receive your immediate attention.

In closing, I desire to express my thanks to his Honor Mayor Putnam, for the interest he has at all times manifested in the welfare of the department; to the committee on fire department, and other members of the city councils; to the efficient assistant engineers upon whose wisdom and judgment I have so much relied, as well as for the valuable assistance they have at all times rendered; to the city marshal, assistant city marshal, and the entire police force, who have used their best endeavors to extinguish incipient fires and prevent needless alarms, and last, but not least, to the officers and members of the different companies for the promptness and zeal which have ever characterized them.

Respectfully submitted.

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

TABLE

SHOWING NUMBER OF ALARMS FROM EACH BOX SINCE TELEGRAPH SYSTEM WAS ESTABLISHED, EXCEPT FROM SEPT., 1872, TO JAN., 1873, WHEN NO RECORD WAS KEPT.

Box.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	Total.
3	..	1	1	..	2	..	..	1	..	..	1	6
4	6	6	4	7	7	5	4	4	2	8	..	53
5	..	6	..	2	2	1	1	..	2	1	..	15
6	4	1	1	4	4	2	2	..	..	3	2	23
7	7	..	2	1	3	..	2	3	..	2	1	21
8	2	..	2	1	1	1	1	1	..	..	..	9
9	..	..	..	..	..	..	..	1	..	1	..	2
12	..	..	..	..	..	..	..	..	..	..	..	..
13	1	..	1	..	..	..	..	..	..	..	..	2
14	..	..	..	..	..	1	..	..	..	..	..	1
15	..	..	1	..	..	..	1	..	1	2	..	5
16	1	..	1	..	..	..	..	..	..	..	..	2
17	..	..	1	1	..	..	..	..	..	..	..	2
18	..	..	1	..	..	..	1	..	1	..	..	3
21	3	..	1	1	2	2	1	1	2	1	1	15
23	..	..	..	..	..	1	..	..	1	1	..	3
24	..	..	1	..	1	..	2	1	1	..	1	7
25	..	..	1	1	..	..	..	..	..	1	..	3
26	1	..	..	..	..	..	1	1	..	..	..	3
27	..	2	2	1	5	..	..	2	..	1	..	13
31	..	..	3	..	..	..	..	..	..	1	..	4
32	..	..	..	..	..	1	..	1	..	1	..	3
34	2	1	..	..	..	..	..	..	..	..	..	3
35	..	..	..	..	..	..	..	..	..	..	1	1
36	..	..	..	..	..	1	..	..	..	..	..	1
41	..	..	..	1	..	1	..	..	..	..	..	2
42	1	..	..	..	..	..	..	..	..	..	..	1
43	..	..	..	..	..	..	..	..	..	..	..	..
45	..	..	..	..	..	..	..	..	..	..	..	..
51	1	1	..	1	..	1	1	1	1	..	3	10
52	4	3	1	..	2	..	..	2	..	2	2	16
53	2	1	1	1	..	1	..	2	..	1	..	9
54	..	..	..	..	..	..	..	..	..	..	..	..
61	..	1	..	1	..	1	1	..	..	2	1	7
62	..	2	..	1	1	1	1	..	..	..	..	6
71	..	..	1	1	..	1	3	2	..	1	..	9
	35	25	26	25	30	21	22	23	11	29	13	260
			3 still.			1 still.		1 still.	1 still.	1 still.		7 still.

## FIRES, ALARMS, LOSSES, ETC., FROM

Day of week.	Day of month.	Hour.	Box.	Location.	Description.
Sunday . . .	Jan. 14.	12.15 P. M..	6	70 Concord street.....	Two-story house .....
Wednesday.	April 18	3.15 "	21	Union, cor. Laurel.....	Mt. St. Mary's Convent..
Monday ....	July 30.	10.50 "	52	Parker street, 'Squog....	Livery stable.....
Sunday.....	Aug. 12.	4.20 A. M..	52	53 Winter street, 'Squog	Two-story house.....
Monday ....	Sept. 17.	2.45 "	51	Railroad yard.....	Kerosene oil shed.....
Monday ...	Sept. 17.	2.55 P. M..	24	380 Central street... ..	Cottage house.....
Wednesday.	Sept. 19.	7.55 "	51	Railroad yard.....	Kerosene-oil shed.....
Wednesday	Oct. 24..	1.30 "	61	River road.....	Bakersville school-house.
Friday.....	Nov. 23.	1.35 A. M..	6	Rear No. 57 Amherst st..	Shed.....
Saturday. . .	Dec. 1..	12.25 "	35	60 Canal street.....	Brick block.....
Thursday...	Dec. 6..	11.42 P. M..	7	Basement Chandler bl'ck	Brick block .....
Monday ....	Dec. 10.	3.23 "	3	South Elm street .....	Machine-shop.....
Tuesday....	Dec. 11.	9.47 "	51	Railroad yard.....	Oil on cars.....

## JANUARY 1, 1883, TO DECEMBER 1, 1883.

Owned by.	Occupied by.	Damage.	Insurance.	Amount uncovered.	Cause.	Remarks.
Mrs. John Kelley	C.L. Fitzpatrick	\$10.00	\$10.00	....	Burning chimney..	Extinguished with pails.
Catholic Society	Sisters of Mercy	Slight.	....	....	Overheated flue...	Extinguished with pails.
Thomas L. Thorpe	H. E. Slack	\$2,800.00	2,200.00	\$600	Unknown	
Henry J. Hatch	Henry J. Hatch	500.00	300.00	200	Unknown	
A. N. Clapp	Store-house.	400.00	....	400	Incendiary	
Nicholas Stenber	John Robbie	800.00	800.00	....	Defective chimney	
Dudley & Co.	W. J. Dudley, agent.	75.00	75.00	....	Incendiary	
City	School	None.	....	....	Smoke fr. furnace.	No fire.
C. H. Bradford	Peter Letendre	None.	....	....	Spontaneous	Extinguished by
Stark Corp.	Unoccupied.	\$480.50	480.50	..	Defective chimney	police.
Chandler Bros	C. W. Butler & Co.	1,125.00	1,125.00	....	Spontaneous	
Hutchinson Bros	Hutchinson Bros	125.00	125.00	....	From furnace	
A. N. Clapp & Concord R.R.	A. N. Clapp.	410.00	350.00	60	Incendiary	
		\$6,725.50	\$5,465.50	\$1,260		

## NUMBER 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 Granite 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's drug-store.

No. 8.—Elm, foot of Orange street. Keys at Wilson's drug-store and residence of Moses N. Smith, No. 1299 Elm street.

No. 9.—Corner of Elm and Webster streets. Keys at residences of H. D. Corliss and J. Freeman Clough.

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 John F. Woodbury.

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 Wm. H. Hunt's grocery store, No. 60 Pearl street.

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 Michael 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 Mrs. 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 and Nicholas Hopkins, and Benton Bros.' store.

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 E. H. 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 Mills. Keys at watch-room.

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

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

No. 45.— Armory 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 shops. Keys at freight depot, 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 Merrimack House.

No. 53.— Wallace's brewery. Keys at brewery office and residence of I. R. Dewey.

No. 54.— Corner of Wayne and Main streets, 'Squog. Keys at residences of Napoleon Duford and Julius Foucher.

No. 61.— Corner of Elm and Hancock streets, Bakersville. Keys at residence of B. F. Merrill and John Crenan's saloon.

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

No. 71.— 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 Dunlap & Baker's jewelry store, and will be denoted by one stroke of the fire-bells.

## INSTRUCTIONS TO KEY-HOLDERS AND CITIZENS.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm-box, keys to which are in the hands of all regular police, also of persons at the corner or nearest houses, as 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.

Two strokes, with fifteen seconds between them, to close the primary schools; and, to close all the schools, two immediate strokes, and after a lapse of four seconds two more immediate strokes, — the time of striking the bells being at 8.05 A. M., for closing the schools during the forenoon, and at 1.15 P. M., for closing them during the afternoon.

RULES AND REGULATIONS IN REGARD TO RE-  
SPONDING TO ALARMS, 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 4, 7, 8, 15, 27, 35, 41, 42, 45, 51 ; on second alarm, to boxes 3, 5, 6, 12, 13, 16, 17, 21, 23, 26, 32, 34, 43, 52, 53, 71 ; on third alarm, to all boxes.

2. Steamer No. 4, same as above.

3. On the first alarm from boxes 9, 24, 25, 26, 31, 36, 54, 61, 62, the steamer horses of the second run will double on the engine of its first run, and on the arrival at the fire the second-run horses will return to their house, and in case of an alarm from any box the company will immediately respond with their engine.

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

5. Massabesic Hose No. 2 will report for duty on the first alarm to boxes 4, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 21, 24, 25, 26, 27, 35, 36, 41, 42, 51 ; on the second alarm, to boxes 3, 12, 23, 31, 32, 34, 43, 45, 62, 71 ; on the third alarm, to all boxes.

6. E. W. Harrington Hose No. 3 will report for duty on the first alarm to boxes 3, 4, 5, 27, 35, 41, 42, 43, 51, 52, 53, 54 ; on second alarm, to boxes 7, 12, 31, 32 ; on third alarm, to all boxes. On first alarm from box 45, repair to west end of McGregor bridge and await orders, or cross on second alarm.

7. Merrimack Hose No. 4 will report for duty on first alarm to boxes 3, 4, 5, 6, 7, 15, 17, 18, 21, 23, 24, 25, 27, 35, 36, 41, 42, 51, 61, 62, 71 ; on second alarm, to boxes 8,

12, 16, 26, 32, 34, 43, 45, 52, 53 : on third alarm, to all boxes.

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

9. 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 detailed for that purpose and attached to Pennacook Hose and Hook and Ladder companies at all times, except when the engine is on duty.

10. Steamer No. 3 will also be kept as a reserve engine, to be used in case of need on third alarm.

11. At any time when an alarm of fire is given, the engine, hose-carriage, or truck that leaves the house first will have the right to lead to the fire. NO RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT, UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.

12. The companies of the department not called on the first alarm will prepare for a start, and hold themselves in readiness for a second or third alarm ; and, if not needed, one stroke on the bells and gongs, by the engineer in charge, will be the signal for discharge to all companies remaining at the houses ; or, in case that one blow is not struck within thirty minutes, companies may consider themselves dismissed, except the drivers, who will remain in the houses with their horses until the two blows to limber up are given.

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

## ESTIMATED VALUE OF PROPERTY.

## AMOSKEAG STEAM FIRE ENGINE 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
1,000 feet 2 1-4 inch fabric hose . . . . .	900 00
Firemen's suits . . . . .	250 00
Furniture and fixtures, including harnesses . . . . .	500 00
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Total amount . . . . .	\$6,290 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
1,500 feet leather hose . . . . .	1,500 00
Firemen's suits . . . . .	240 00
Furniture and fixtures, including harnesses . . . . .	500 00
	<hr/>
Total amount . . . . .	\$5,815 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
2,700 feet leather hose . . . . .	2,700 00
Firemen's suits . . . . .	300 00
Furniture and fixtures, including two harnesses . . . . .	440 00
	<hr/>
Total amount . . . . .	\$4,165 00

## MASSABESIC HOSE NO. 2.

LOCATED ON MAPLE STREET, CORNER EAST HIGH.

1 four-wheeled horse hose-carriage . . .	\$700 00
1,700 feet leather hose . . . . .	1,700 00
Furniture and fixtures . . . . .	60 00
Firemen's suits . . . . .	175 00
	<hr/>
Total amount . . . . .	\$2,635 00

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

LOCATED AT PISCATAQUOG.

1 four-wheeled horse hose-carriage . . .	\$650 00
2,100 feet leather hose . . . . .	2,100 00
Firemen's suits . . . . .	175 00
Furniture and fixtures, including harness	200 00
	<hr/>
Total amount . . . . .	\$3,125 00

## MERRIMACK HOSE NO 4.

LOCATED ON PARK STREET, CORNER MASSABESIC.

1 four-wheeled horse hose-carriage . . .	\$700 00
1,700 feet leather hose . . . . .	1,700 00
Firemen's suits . . . . .	126 00
Furniture and fixtures . . . . .	100 00
	<hr/>
Total amount . . . . .	\$2,626 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 . . . . .	400 00
Furniture and fixtures, including harnesses	340 00
	<hr/>
Total amount . . . . .	\$2,390 00

## SUPPLY WAGON.

LOCATED AT ENGINE-HOUSE ON VINE STREET.

1 supply wagon and boxes . . . . .	\$100 00
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## SPARE HOSE.

AT ENGINE-HOUSE ON VINE STREET.

900 feet leather hose . . . . .	\$1,035 00
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## ENGINEERS' DEPARTMENT.

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

## FIRE-ALARM TELEGRAPH.

At cost (including additions) . . . . .	\$21,500 00
Ladders and tools . . . . .	30 00
Extra poles and wire . . . . .	25 00
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Total amount . . . . .	\$21,555 00
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## INDEPENDENT HOSE CO.

LOCATED CORNER OLD FALLS ROAD AND FRONT STREET, 'SKEAG.

1 four-wheeled hose-carriage . . . . .	\$400 00
800 feet leather hose . . . . .	600 00
2 hose-pipes . . . . .	30 00
	<hr/>

Total amount . . . . .	\$1,030 00
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## GOFFE'S FALLS HOSE-CARRIAGE.

LOCATED AT DERRY MILLS.

1 two-wheeled hose-carriage . . . . .	\$100 00
400 feet linen hose . . . . .	200 00
2 hose-pipes . . . . .	12 00
	<hr/>
Total amount . . . . .	\$312 00

## RECAPITULATION.

Amoskeag Steam Engine No. 1 . . . . .	\$6,290 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 . . . . .	5,815 00
Pennacook Hose No. 1 . . . . .	4,165 00
Massabesic Hose No. 2 . . . . .	2,635 00
E. W. Harrington Hose No. 3 . . . . .	3,125 00
Merrimack Hose No. 4 . . . . .	2,626 00
Excelsior Hook and Ladder No. 1 . . . . .	2,390 00
Supply Wagon . . . . .	100 00
Store-room . . . . .	1,035 00
Engineers' Department . . . . .	132 00
Fire Alarm . . . . .	21,555 00
Independent Hose at Amoskeag . . . . .	1,030 00
Goffe's Falls Hose-Carriage . . . . .	312 00
	<hr/>
Total amount . . . . .	\$56,710 00

## 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. (P.)
Benjamin C. Kendall...	Assistant and clerk.	Master Mechanic.....	311 Central St.
James F. Pherson.....	Assistant.....	Painter.....	25 M. S. B.
Orrin E. Kimball... ..	Assistant.....	Wool and L'th'r Deal'r	17 Harrison St.

### AMOSKEAG STEAM FIRE ENGINE COMPANY NO. 1.

*House on Vine Street.*

NAME.	Rank.	Occupation.	Residence.
James R. Carr.....	Foreman.....	Painter.....	1405 Elm St.
Jonathan T. Underhill..	Assistant Foreman.	Manufacturer.....	20 Stark St.
Henry T. Stevens.....	Clerk.....	Clerk.....	102 Myrtle St.
Henry H. Glines.....	Engineer.....	Machinist.....	13 Mechanic St.
George R. Simmons....	Assistant Engineer.	Mechanic.....	82 Pennacook St.
George W. Butterfield	Driver.....	Teamster.....	28 Vine St.
Frank E. Stearns.....	Hoseman.....	Painter.....	389 Park St.
Artemas C. Barker....	".....	Currier.....	494 Pine St.
John E. Wilson.....	".....	Mechanic.....	13 Mechanic St.
Charles F. McCoy.....	".....	Mechanic.....	5 M. S. B.
John B. Hall.....	".....	Druggist.....	166 Concord St.
Joseph H. Gould... ..	".....	Dresser.....	187 Merrimack St.
John H. Stone.....	".....	Painter.....	27 Clark's Ave.
Thomas J. Wyatt.....	".....	Machinist.....	14 M. S. B.

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

*House on Vine Street.*

NAME.	Rank.	Occupation.	Residence.
Eugene S. Whitney....	Foreman.....	Supt. Electric Light ...	96 Bridge St.
Edgar G. Abbott.....	Assistant Foreman.	Machinist .....	543 Chestnut St.
John Martin.....	Clerk .....	" .....	22 M. S. B.
Fred S. Bean.....	Engineer.....	" .....	96 Bridge St.
Thomas F. Dodge... ..	Assistant Engineer.	" .....	545 Chestnut St.
Jeremiah Lane.....	Driver.....	Teamster.....	20 Vine St.
Almus E. Cushing.. ...	Hoseman.....	" .....	141 Laurel St.
Charles E. Ham.....	" .....	Carpenter .....	44 M. S. B.
William H. Dodge.....	" .....	Fireman.....	847 Elm St.
George W. Bacon.....	" .....	Carpenter .....	65 Stark Corp.
Alfred Nearborn.....	" .....	" .....	Cor. E. High & Jaue
Albert Merrill.....	" .....	Machinist .....	96 Bridge St.
John W. Chase.....	" .....	Painter .....	240 Merrimack St.
George C. Hoyt.....	" .....	Mason.....	10 Nashua 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....	Assistant Foreman.	Marble Worker.....	347 Central St.
Joseph E. Merrill.....	Clerk.....	Currier.....	92 Walnut St.
Walter L. Blenus.....	Driver.....	Teamster.....	26 Vine St.
George H. Porter.....	Hoseman.....	Carpenter.....	277 Laurel St.
Will G. Chase.....	".....	Photographer.....	217 Central St.
Lyman M. Aldrich....	".....	Carpenter.....	375 Park St.
Joseph H. Alsop.....	".....	Manufacturer.....	59 Douglas St. (P.)
Daniel W. Morse.....	".....	Machinist.....	1419 Elm St.
George W. Cheney....	".....	".....	1348 Elm St.
Gilbert A. Sackett....	".....	Weaver.....	53 Amoskeag Corp.
Edwin A. Durgin.....	".....	Machinist.....	44 Manchester "
Samuel A. Hill.....	".....	Carpenter.....	50 Douglas St. (P.)
Edwin E. Weeks.....	".....	Machinist.....	50 Amoskeag Corp.
Albert A. Puffer.....	".....	Railroad Employe....	544 Chestnut St.
Charles W. Brown.....	".....	Clerk.....	16 Hazel St.
Martin W. Ford.....	".....	Molder.....	546 Chestnut St.
Henry B. Porter.....	".....	Teamster.....	281 Merrimack St.
David G. Mills.....	".....	Carpenter.....	50 Douglas St. (P.)
Charles B. French.....	".....	".....	10 M. S. B.

## MASSABESIC HOSE COMPANY NO. 2.

*House on Maple Street, cor. East High.*

NAME.	Rank.	Occupation.	Residence.
John F. Seaward.....	Foreman.....	Carpenter.....	27 Warren St.
Revilo G. Houghton....	Assistant Foreman	Gas Fitter.....	288 Bridge St.
Parker W. Hannaford..	Clerk.....	Carpenter.....	256 Lowell St.
Walter Seaward.....	Driver.....	Teamster.....	520 Maple St.
Henry G. Seaman .....	Hoseman.....	Carpenter.....	14 South St.
Joseph W. Batchelder..	".....	".....	520 Maple St.
William S. McLeod....	".....	Grainer.....	66 Nashua St.
Simeon K. Stearns....	".....	Machinist.....	63 Arlington St.
Alphonso E. Foster....	".....	Carpenter.....	270 Bridge St.
George W. Seaward ..	".....	Machinist.....	19 Warren St.
Henry H. Wilcox.....	".....	Plumber.....	195 Hanover St.
Albert E. Batchelder..	".....	Carpenter.....	520 Maple 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...	Assistant Foreman.	Carpenter.....	48 Dover St.
Joseph Schofield.....	Clerk.....	Wool Sorter.....	352 Granite St.
John T. O'Dowd.....	Driver.....	Teamster.....	Clinton St.
William Doran.....	Steward.....	Machinist.....	60 Parker St.
John McDerby.....	Hoseman.....	Roofer.....	503 Douglas St.
Ruel G. Manning.....	".....	Carpenter.....	50 Douglas St.
Edward McDerby .....	".....	Machinist.....	145 Winter St.
Andrew C. Wallace, Jr..	".....	Lumber Surveyor.....	79 Parker St.
Edward Flanagan.....	".....	Carpenter.....	21 School St.
John Patterson.....	".....	Engraver.....	45 School St.
William McCombie....	".....	Carpenter.....	161 Winter St.

## MERRIMACK HOSE COMPANY NO. 4.

*House on Park Street, corner Massabesic.*

NAME.	Rank.	Occupation.	Residence.
James W. Lathe. ....	Foreman .....	Machinist .....	302 Laurel St.
George B. Forsaith....	Assistant Foreman.	Machinist .....	196 Laurel St.
John S. Avery.....	Clerk .....	Janitor .....	404 Merrimack St.
Charles H. Rogers.....	Driver .....	Teamster .....	Hose-house
Charles H. Colburn ....	Hoseman.....	Carpenter .....	286 Laurel St.
Charles F. Garland.....	" .....	Carpenter.....	464 Amherst St.
Louis N. Dufrain.....	" .....	Plumber.....	474 Central St.
William P. Emerson.. .	" .....	Carpenter .....	286 Laurel St.
Frank F. Porter.....	" .....	Manufacturer.....	474 Central St.
George H. Wheeler. ...	" .....	Machinist .....	410 Merrimack St.
Lucien P. Nichols.....	" .....	Machinist .....	302 Laurel St.
Parker R. Brown.....	" .....	Clerk.....	417 Pine St.

## EXCELSIOR HOOK AND LADDER COMPANY NO. 1.

*House on Vine Street.*

NAME.	Rank.	Occupation.	Residence.
Warren Harvey.....	Foreman .....	Contractor .....	474 Hanover St.
James Orrill.....	Assistant Foreman.	Barber .....	60 Prospect St.
George E. Glines.....	Clerk.....	Machinist.....	310 Central.
Winfield S. Leavitt....	Treasurer .....	Carpenter .....	8 Weeks' Block.
Charles M. Denyou....	Driver .....	Teamster.....	8 Vine St.
John N. Chase.....	Fireman. ....	Overseer .....	268 Bridge St.
John Wilson .....	" .....	Carpenter.....	12 M. S. B.
Hiram P. Young.....	" .....	Slater .....	33 Dutton St.
Edward A. G. Holmes..	" .....	Carpenter .....	224 Manchester st.
George H. Dudley .....	" .....	" .....	159 Laurel St.
Luther J. Flint .....	" .....	" .....	4 Dutton St.
Harrison H. Cole.....	" .....	" .....	37 M. S. B.
Jesse B. Nourse.....	" .....	Teamster.....	Union cor.Appleton
Charles H. Cross.....	" .....	Overseer.....	8 Langdon Corp.
Andrew C. Wiggin .....	" .....	Mason.....	7 Crosby Block.
Dillwyn Breed. ....	" .....	Belt Maker.....	335 Chestnut St.
George M. Jones.....	" .....	Gardener.....	1051 Elm St.
Milo B. Wilson .....	" .....	Mason.....	542 Chestnut St.
Samuel F. Adams.....	" .....	Expressman .....	295 Chestnut St.
Roscoe Dyer.....	" .....	Machinist.....	29 Amoskeag Corp.
Sanborn T. Worthlen...	" .....	Carpenter .....	530 Chestnut St.
Josiah D. Andrews.....	" .....	" .....	Cor. Pearl and Pine.
Jerome J. Lovering....	" .....	" .....	78 Amoskeag Corp.
Oscar P. Stone.....	" .....	Grocer.....	307 Chestnut St.
Ralph Pearsons.....	" .....	Box Maker .....	8 Laurel 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.
- Amherst, northwest corner of Belmont street.
- Appleton, northwest corner of Elm street.
- Appleton, northwest corner of Chestnut street.
- Appleton, northwest corner of Pine street.
- Appleton, northwest corner of Union street.
- Arlington, northwest corner of Cross street.
- Arlington, northwest corner of Warren street.
- Arlington, northwest corner of Ashland street.
- Ash, front of No. 32.
- Auburn, 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.
- Baker, corner of Elm 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.  
 Bridge, corner Ashland street.  
 Bridge, corner Hall street.  
 Brook, northwest corner of P. Adams's lot.  
 Brook, northwest corner of Chestnut street.  
 Brook, northwest corner of Pine street.  
 Brook, northwest corner of Union street.  
 Brook, northwest corner of Beech street.  
 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.  
 Concord, northwest corner of Ashland street.  
 Concord, northwest corner of Hall street.  
 Concord, northwest corner of Belmont 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, near Franklin street.  
 Granite, east end of Granite bridge.

- Grove, corner of Elm street.  
 Hancock, northwest corner of River road.  
 Hancock, near brewery.  
 Hanover, front of Opera House.  
 Hanover, northwest corner of Chestnut street.  
 Hanover, northwest corner of Pine street.  
 Hanover, northwest corner of Union street.  
 Hanover, northwest corner of Beech street.  
 Hanover, northwest corner of Maple street.  
 Hanover, northwest corner of Lincoln street.  
 Hanover, northwest corner of Ashland street.  
 Hanover, northwest corner of Hall street.  
 Hanover, northwest corner of Belmont street.  
 Harrison, opposite No. 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 st.  
 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.  
 Mechanics', northeast corner of Canal street.  
 Mechanics', near second back street west of Elm street.  
 Mechanics', northwest corner of Elm street.  
 Merrimack, opposite gate, Merrimack square.  
 Merrimack, northwest corner of Chestnut street.  
 Merrimack, northwest corner of Pine street.  
 Merrimack, northwest corner of Union street.

- Merrimack, northwest corner of Beech street.  
 Merrimack, northwest corner of Maple street.  
 Merrimack, northwest corner of Lincoln street.  
 Merrimack, near No. 362.  
 Merrimack, northwest corner of Wilson street.  
 Merrimack, northwest corner of Hall street.  
 Merrimack, near Belmont street.  
 Middle, northeast corner of Canal street.  
 Middle, near 67 Amoskeag corporation.  
 Monroe, northwest corner of Elm street.  
 Myrtle, opposite No. 33.  
 Myrtle, northwest corner of Pine street.  
 Myrtle, northwest corner of Union street.  
 Myrtle, northwest corner of Walnut street.  
 Myrtle, northwest corner of Beech street.  
 Myrtle, northwest corner of Ash street.  
 Myrtle, northwest corner of Maple street.  
 Myrtle, northwest corner of Oak street.  
 Myrtle, northwest corner of Russell street.  
 North, northwest corner of Bay street.  
 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 of Union street.  
 Park, northwest corner of Maple street.  
 Park, northwest corner of Lincoln street.  
 Park, northwest corner of Wilson street.  
 Park, east end.  
 Pearl, northwest corner of Clark's avenue.  
 Pearl, northwest corner of Pine street.

- Pearl, northwest corner of Union street.  
Pearl, corner of Beech street.  
Pearl, corner of Walnut street.  
Pearl, northwest corner of Ash street.  
Pearl, northwest corner of Maple street.  
Pearl, northwest corner of Oak street.  
Pearl, northwest corner of Russell street.  
Pearl, northwest corner of Linden street.  
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, north of Webster street.  
Shasta, corner 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, northwest corner of Elm street.  
 Webster, corner of Adams street.  
 Webster, northwest corner of Union street.  
 Webster, northeast corner of River road.  
 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 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.

## PISCATAQUOG.

A, corner of South Main street.  
 Bath, corner of Shirley street.  
 Bennington, corner of 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.  
 School, corner of South Main street.  
 School, opposite school-house.  
 School, corner River street.  
 Douglas, corner of Quincy street.  
 Douglas, corner of Green street.  
 Douglas, corner of Barr street.  
 Douglas, corner of West street.  
 Douglas, corner of Main street.  
 Douglas, east of Main street.  
 Ferry, corner of Main street.  
 Granite, corner of Quincy street.  
 Granite, corner of Green street.  
 Granite, corner of Barr street.

Granite, corner of West street.  
 Granite, corner of Dover street.  
 Granite, corner of Main street.  
 Granite, corner of Shirley street.  
 Granite, corner of River street.  
 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. C. Smith's house.  
 McGregor, opposite "Reed" house.  
 Milford, southwest corner of South Main street.  
 Milford, southeast corner of Bowman street.  
 Milford, corner of old Bedford road.  
 Patten, corner of Ferry street.  
 Putnam, corner of Beauport street.  
 Shirley, northwest corner of Walker street.  
 Shirley, southwest corner of Ferry street.  
 Sullivan, corner of Main street.  
 Temple, corner of Main street.  
 Walker, corner of River road.  
 Walker, corner of Patten 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.

Goffstown road.  
 Goffstown road.  
 Main, at Robinson's slaughter-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 four private hydrants that are available in case of need: —

One at P. C. Cheney Co.'s paper-mill.

One at S. C. Forsaith & Co.'s machine-shop.

One at J. Hodge's wood-working establishment.

One at A. H. Lowell's iron foundry.

Making 351 in all.



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 ordinances of said city, the Overseers of the Poor herewith present their annual report for the year 1883:—

The whole number of paupers supported at the city farm during the year has been forty-one; the number sent from the city farm to the county farm, owing to a change in the law, has been fourteen. One of the above number died during the year.

The whole number of families that have received more or less assistance off the farm during the year has been fifty-eight, consisting of one hundred and sixteen persons, all of whom had a settlement in this city. Four of the above number died during the year. The whole number at the insane asylum during the year has been five persons, at a cost of four dollars per week for each person, besides clothing destroyed. The whole number of persons at the State Industrial School, chargeable to the city, has been five, at a cost of one dollar and fifty cents per week for each person. The overseers of the poor have assisted the

paupers off the farm from the several wards of the city as follows : —

Ward number one . . . . .	\$6 02
Ward number two . . . . .	41 00
Ward number three . . . . .	230 48
Ward number four . . . . .	177 14
Ward number five . . . . .	737 60
Ward number six . . . . .	226 37
Ward number seven . . . . .	61 56
Ward number eight . . . . .	170 71
	<hr/> \$1,650 88

MISCELLANEOUS BILLS ALLOWED.

Industrial School, for board of inmates	\$2,218 02
Insane Asylum, for board of inmates .	715 25
Geo. H. Ellinwood, for board of Blanchard child . . . . .	86 28
Adams & Lamprey, and others, for support of Judith McGrath . . . . .	30 99
For support of Sarah A. Heselton . . . . .	10 00
Town of Lancaster, for support of Ben- son Joy . . . . .	43 06
J. M. Collity, M. D., for professional services . . . . .	30 00
Temple & Farrington, for blanks and stationery, etc. . . . .	3 50
	<hr/> \$3,137 10
	<hr/> \$4,787 98

CASH RECEIVED AND PAID TO CITY TREASURER.

County of Hillsborough, for board of inmates of Industrial School . . . . .	\$1,863 38
City of Concord, for support of Blanch- ard boy . . . . .	86 28



Town of Groton, for support of Judith McGrath . . . . .	\$30 99	
County of Hillsborough, for support of Mrs. Paige . . . . .	54 00	
		————— \$2,034 65
		—————
Total cost of paupers off the farm during the year . . . . .		\$2,753 33

The amount paid for medicine for paupers off the farm during the year 1882 was \$155.06. The amount paid for medicine during the year 1883 was \$28.23. This amount is included in the amount charged to the several wards of the city.

We will only say that this amount was saved during the year 1883 by close attention to the duties of our office.

In the city physician's report for 1882, he says "that three cases of insane persons were sent from the city farm to the insane asylum at Concord, where all have died." This statement we know to be false. Only two were returned, out of five which were taken from there. All are still alive, and one is improving.

All of which is respectfully submitted.

WILLIAM H. MAXWELL, *Clerk*, Ward 1,  
 JOHN E. STEARNS, Ward 2,  
 JAMES SUTCLIFFE, Ward 3,  
 HORACE GORDON, Ward 4,  
 DANIEL SHEEHAN, Ward 5,  
 PETER O. WOODMAN, Ward 6,  
 ELBRIDGE G. WOODMAN, Ward 7,  
 WILLIAM WEBER, Ward 8,

*Overseers of the Poor.*



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 Manchester : —*

GENTLEMEN. — The Joint Standing Committee on the City Farm, in making their annual report for the year ending December 31, 1883, take great pleasure in being able to make so favorable a report of the good management of the institution.

During the past year a change has been made in superintendents. The city has been very fortunate in securing the services of Mr. Jeremiah Garvin, who is a practical farmer and a good business man. He has given his whole time to his official duties, with the best results to the city. He assumed charge of the institution under adverse circumstances, but has been very successful in the management of its affairs.

Mr. Garvin thought that a milk route could be made profitable and pay most of the expenses of the institution. This committee felt willing to try the experiment, and have been much pleased with the result. Not only has it been a source of revenue, but by using the hay on the premises the farm can be kept up to a higher state of cultivation.

Many permanent improvements have been made during the past year. A stable and carriage-house have been built, which had long been needed. In the early fall the wells on

the farm became dry so that all the water used had to be carted from ponds at a distance. A new well was sunk just west of the house, fifteen feet in width and thirty feet in depth ; when the well was stoned up it contained twenty four feet of water, and it has averaged sixteen feet ever since. A new wind-mill was erected, forcing the water to the reservoir on the Lowell-street hill, through a two-inch pipe. Thence it runs to the house and barn, having at the same time sufficient head to be used for fire purposes.

The crops have been very good, as follows: 75 tons of hay, 700 bushels of potatoes, 287 bushels of shelled corn, 372 bushels of oats ; also milk sold, amounting to \$1,262 since April 1.

While speaking of the management of the farm we shall not forget to do justice to the matron, Mrs. Garvin. She has performed her part in the internal management of the institution in a very acceptable manner. Her uniform kindness to those placed under her charge has won for her the respect and good will of all.

In places like this, where are gathered the young, the old, the sick, and the criminal, an energetic person, and one possessing much patience is needed, and Mrs. Garvin possesses these qualifications. The committee bear willing testimony to the neatness and good order which pervade this institution, both indoors and out.

We cordially invite our citizens to visit the farm and judge for themselves as to the manner in which it is carried on, and its general appearance.

## STATEMENT OF ACCOUNTS.

Expenses of farm . . . . .	\$6,551 13
Interest on farm . . . . .	1,000 00
	<hr/>
Total expenses . . . . .	\$7,551 13
Total receipts . . . . .	2,268 23
	<hr/>
	\$5,282 90
Bills receivable . . . . .	270 92
	<hr/>
	\$5,011 98
Difference in stock . . . . .	2,521 66
	<hr/>
	\$2,490 32
Permanent improvements . . . . .	852 15
	<hr/>
Total cost of paupers and criminals . . . . .	\$1,638 17

Number of weeks' board after March 1, 1883, 1,475  
 Total cost, \$1,638.17, divided by 1,475, gives \$1.11 per  
 per week.

J. F. CLOUGH,  
 E. P. JOHNSON,  
 SAMUEL LUNT,  
 S. P. CANNON,  
 H. A. HORTON,  
*Committee on City Farm.*





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 the Valley and Pine Grove Cemeteries herewith present their annual report for the year ending December 31, 1883, the important details of which will be found in the sub-committees' and treasurer's reports.

VALLEY CEMETERY

Annual statement of the work accomplished at the Valley Cemetery for the year 1883 : —

Your committee have but little to report aside from the fact that the grounds are now inclosed with suitable fencing : on three sides by an iron fence, nearly one thousand feet having been added the past year, the high wooden fence on the west and unrepaired side being perfectly satisfactory for the present. An additional amount of water-pipe has been laid, and now water is easily obtained for nearly every lot. The introduction of city water has added much to the beauty and general appearance of the Valley. The water rents have been placed at the reasonable sum of \$1.50 per year for each lot, and even at this price proves a valuable investment for the city. Your committee are

gratified that the grounds are beginning to assume an appearance more in keeping with the growing demands of our city, and hereafter a portion of the annual appropriation can be devoted to the improving and adorning of the grounds.

The expenditures have been unusually large on account of the completion of the iron fence, which incurred additional outlay for grading, foundation-wall, and turfing, and although necessarily expensive it is a decided improvement. The whole expense amounts to \$4,209.35, for which no provision need be made in the future. Your committee recommend that a concrete walk be laid on the east and south sides of the Valley, both for the convenience of the citizens and adornment of the grounds. Mr. F. B. Balch has been retained as superintendent, proving himself an acceptable person for the position. For receipts and expenditures, see the financial statement.

## RECEIPTS.

Balance old account . . . .	\$14 00	
Appropriation . . . . .	2,000 00	
Water rents, digging graves, etc. . .	549 00	
		————— \$2,563 00

## EXPENDITURES.

Paid F. B. Balch, superintendent . .	\$598 53
S. B. Duke, labor . . . . .	207 50
John B. Varick, hardware . . . . .	9 94
Manchester water-works . . . . .	128 80
A. H. Lowell, iron fence . . . . .	3,155 02
S. M. Nutt, paving stone, etc. . . .	38 00
J. S. Harriman, loam . . . . .	23 00
H. L. Bartlett, receipt-book . . . .	2 50
Marsh & Co., grading . . . . .	150 00

Paid Varnum & Co., grading, etc. . . . .	\$45 95	
J. S. Bacheler, iron pipe . . . . .	36 00	
Thorp & Avery . . . . .	3 90	
C. C. Webster, turf . . . . .	66 15	
Warren Harvey, stone-work . . . . .	731 22	
J. Hodge . . . . .	1 83	
Ezra W. Kimball . . . . .	3 50	
	—————	\$5,201 84

Respectfully submitted.

HOLMES R. PETTEE,  
 WM. G. HOYT,  
 JOSEPH KIDDER,  
*Committee on Valley Cemetery.*

#### PINE GROVE CEMETERY.

The undersigned, your committee for the Pine Grove Cemetery, report that we have cared for the grounds by the services of Mr. B. A. Stearns as superintendent, and Mr. Charles Griffin, both having been employed through the year. Other labor has been employed as needed.

The walks and avenues have been preserved, and the graveling of the avenues extended about two thousand feet. The grades of the avenues in some places have been changed so that they can be driven over with greater ease and safety, at the same time the contiguous lots have been improved thereby.

A portion of the grounds in the easterly part has been graded and laid out as a lawn. All lots sold upon this plat have been restricted to the same conditions as the lots upon "Landscape Lawn," but the city assumes no responsibility for future care excepting through the voluntary deposit of money therefor with the trustees for such funds, appointed

under an ordinance of the city passed in 1879. The price at which these lots have been sold is fifteen cents per foot.

The experience of the year has confirmed our satisfaction with the rule adopted some two years since, for having the digging of all graves under the charge and responsibility of the superintendent.

It seems to secure a full knowledge of all burials taking place in the grounds, so that proper records can be kept, as we believe they have been the past two years; also, the money received for this work goes into the treasury for the general uses of the cemetery.

The city engineer, in that part of his report relating to this cemetery, calls attention to certain irregularities upon the part of lot owners in the grading of their lots, and in improperly changing the lines when setting stone posts and curbing, making encroachments upon the walks, thus greatly injuring the symmetry and harmony of the whole; and he suggests that the committee take such action as will, in the future, prevent all such irregularities.

The cemetery has suffered for the past two seasons from an insufficient supply of water. From the fountain upon the hill east of the grounds a fair supply was drawn, sufficient for most needs, up to 1881. Since then the drouth has been so severe that the supply has been less than formerly, while the territory requiring water has more than doubled since those pipes were laid. A larger supply is urgently needed, and demanded by lot owners, while we shall be unable to meet properly the obligation which we have assumed, to care for lots, without it; and we urge upon the committee the consideration of this question, and the early adoption of such measures as shall result in meeting this necessity.

The city has acquired by purchase a large portion of the tract between the present boundaries upon the north and

Mitchell street, which, when laid out as a cemetery and annexed to the present grounds, will come under the care of the committee.

For a detailed statement of receipts and expenditures, reference may be had to the report of the treasurer.

A. H. DANIELS,  
CHAS. E. BALCH.

*Committee on Pine Grove Cemetery.*

## TREASURER'S REPORT.

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*To the Committee on Cemeteries:—*

GENTLEMEN,— In obedience to the requirements of law, I herewith present to you my eleventh annual report of all the money received during the year ending December 31, 1883, on account of cemeteries:—

### PINE GROVE.

To cash received for 75 lots sold . . . .	\$1,738 38
for 5 lawn lots sold . . . .	285 91
for interest on deeds out- standing . . . .	38 62
of A. C. Wallace, for logs . . . .	108 62
of B. A. Stearns, for digging graves and labor for owners of lots . . . .	581 97
Total receipts . . . .	\$2,753 50
Paid S. B. Putnam, city treasurer, as per receipts . . . .	\$2,753 50

I have twenty-two deeds executed, ready for delivery, amounting to about \$480, and four deeds of lawn lots to the amount of \$735.

For the trustees of the cemetery fund:—

To cash received of the estate of Charles Osbrej, for lot No. 2101 . . . .	\$70 11
To cash received of Mrs. H. G. Conner, for lot No. 2066 . . . .	158 12



To cash received of Phinehas Adams, for lots  
Nos. 2061, 2062, 2063 . . . . . \$343 60

Total receipts . . . . . \$571 83

Paid S. B. Putnam, treasurer for said trustees,  
as per receipts . . . . . \$571 83

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 said treasurer, having been submitted to the committee on accounts for examination. No sales of lots in the "Valley" have been made during the last year.

This being my last report, I have thought it advisable to state very briefly the amount of money received during the eleven years ending December 31, 1883, and the number of deeds written during the same time:—

PINE GROVE CEMETERY.

Cash received in 1873 . . .	\$1,796 83
1874 . . .	1,061 55
1875 . . .	2,289 89
1876 . . .	1,458 76
1877 . . .	1,054 83
1878 . . .	974 22
1879 . . .	1,053 11
1880 . . .	1,294 89
1881 . . .	1,205 22
1882 . . .	1,324 76
1883 . . .	2,753 50
	<hr/>
	\$16,867 56
Paid trustees fund . . . . .	571 83
	<hr/>
	\$17,439 39

## VALLEY CEMETERY.

Cash received in	1873	.	.	\$960	30
	1874	.	.	144	25
	1875	.	.	45	06
	1876	.	.	108	66
	1878	.	.	91	60
	1879	.	.	50	00
	1881	.	.	59	50
				<hr/>	
					\$1,459 37
				<hr/>	
Total receipts	.	.	.		\$18,898 76

Deeds written, 636.

Average amount per year, \$1,718.

Average deeds per year,  $57\frac{9}{11}$ .

Average pay to treasurer, \$53.50.

J. F. JAMES,  
*Treasurer of Committee.*

I hereby certify that I have examined the accounts of Hon. Jacob F. James, treasurer of the Pine Grove Cemetery, and find the same correctly cast and properly vouched to the amount of \$2,753.50.

N. P. KIDDER,  
*City Auditor.*

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JOHN F. CLOUGH, *Chairman,*  
SYLVANUS B. PUTNAM, *Clerk,*  
J. F. JAMES, *Treasurer,*  
CHARLES H. G. FOSS,  
ALBERT A. AINSWORTH,  
STILMAN P. CANNON,  
HENRY S. PERRY,  
ALBERT H. DANIELS,  
HOLMES R. PETTEE,  
JAMES A. WESTON,  
JOSEPH L. STEVENS,  
CHAS. E. BALCH,  
WM. G. HOYT,  
JOHN B. CHASE,  
JOSEPH KIDDER,  
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,—The Trustees of the Cemetery Fund have the honor to present herewith their fourth annual report, accompanied by the report of their treasurer, giving in detail the amount of funds received from different sources to the present time.

The city councils have issued bonds bearing interest at the rate of five per cent per annum, to be used only in connection with this fund, thereby furnishing a safe investment for any sums of money that may be donated in conformity with the ordinance creating this board, and greatly facilitating the labors of the trustees in this regard. As funds are received they can now be invested at once in the bonds of the city of Manchester, without loss of interest.

A convenient plan by which parties can place funds in trust for the care of lots in the various cemeteries of the city in perpetuity may now be considered as fairly inaugurated, and the trustees believe that the opportunity thus afforded will be appreciated by our citizens, and that many will avail themselves of its advantages.

Respectfully submitted.

JAMES A. WESTON, *Chairman,*

P. C. CHENEY,

H. B. PUTNAM, *Mayor,*

*Trustees of the Cemetery Fund.*

January 1, 1884.

## TREASURER'S REPORT.

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*To the Trustees of the Cemetery Fund: —*

GENTLEMEN. — I herewith transmit to you a statement of the funds received up to December 31, 1883: —

### VALLEY CEMETERY.

James Hall . . . . .	\$200 00	
Geo. W. Bailey, estate . . . . .	500 00	
	<hr/>	\$700 00
Interest . . . . .		12 45

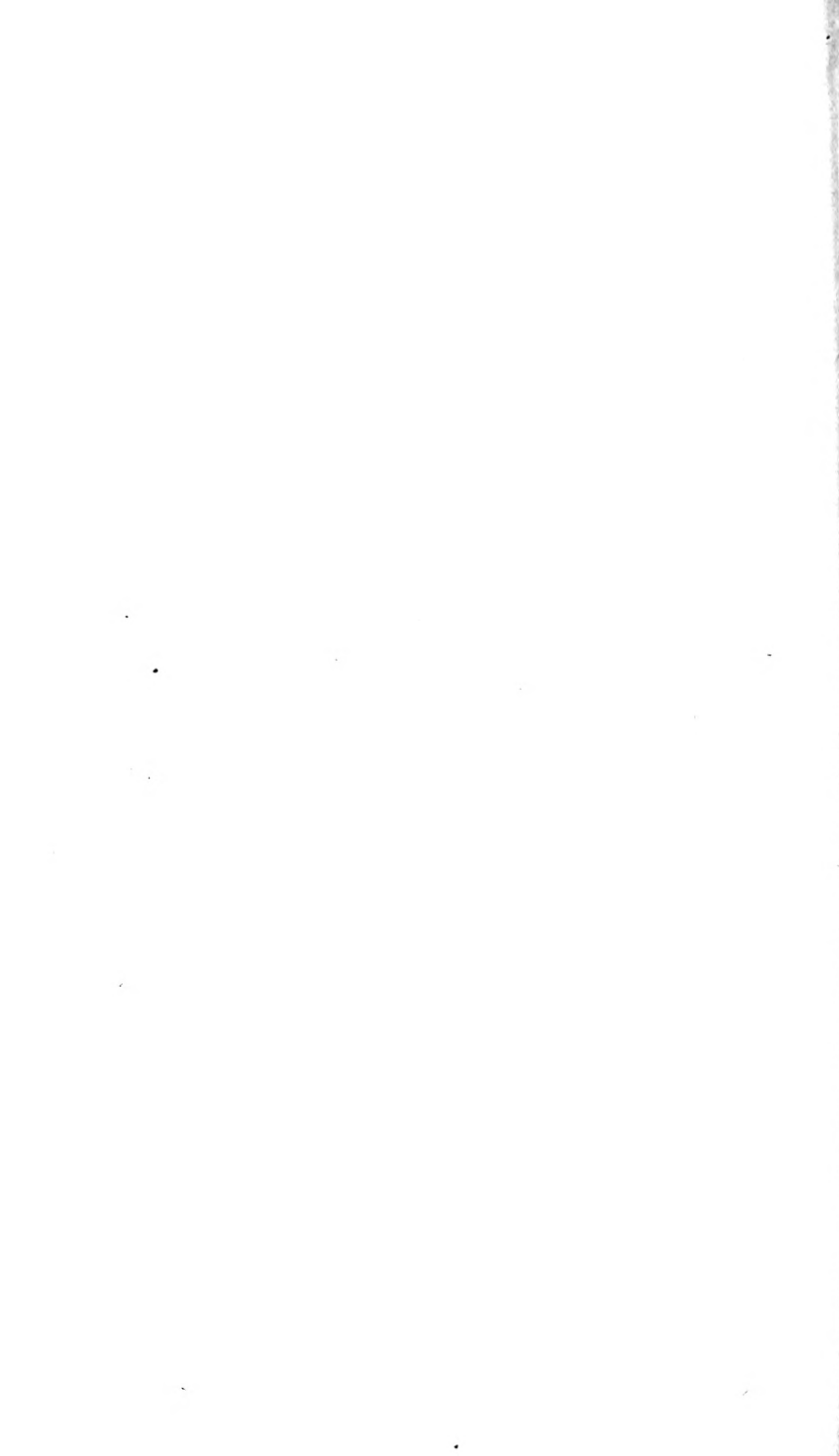
### PINE GROVE CEMETERY.

Mrs. H. G. Conner . . . . .	\$158 12	
Chas. Osbrey estate . . . . .	70 11	
Phinehas Adams . . . . .	343 60	
	<hr/>	\$571 83

SYLVANUS B. PUTNAM,

*Treasurer.*

MANCHESTER, N. H., January 1, 1884.



ACCOUNT

OF

SYLVANUS B. PUTNAM:  
CITY TREASURER,

FROM DECEMBER 31, 1882, TO DECEMBER 31, 1883.

## THE TREASURER OF THE

*Dr. Charges himself with Receipts from the following Sources, and*

To	Cash on hand, January 1, 1883 . . . . .	\$47,337 37
	Temporary Loan . . . . .	140,000 00
	Insurance Tax . . . . .	1,517 25
	Railroad Tax . . . . .	16,177 40
	Savings-bank Tax . . . . .	44,102 73
	Literary Fund . . . . .	2,281 23
	Board of Paupers off Farm . . . . .	2,134 07
	City Farm . . . . .	986 62
	City Teams . . . . .	3,925 13
	District No. 8, overdraft . . . . .	7 08
	Paving, overdraft . . . . .	1,450 00
	Sewer and Drain Licenses . . . . .	1,452 05
	Commons, W. P. Scott . . . . .	40 00
	"    A. H. Lowell . . . . .	50 20
	"    J. Perham . . . . .	8 00
	Repairs on School-Houses . . . . .	23 92
	E. W. Perkins, land sold . . . . .	112 55
	G. F. Boshier & Co., old buildings . . . . .	164 25
	T. A. Lane, overdraft, incidentals . . . . .	5 56
	Pine Grove Cemetery . . . . .	2,753 50
	Valley Cemetery . . . . .	549 00
	Fire Department . . . . .	140 97
	Fire-Alarm Telegraph . . . . .	20 30
	Police Department . . . . .	5,774 51
	City Hall . . . . .	2,100 75
	Hutchinson Bros., old boiler . . . . .	28 00
	Tuition . . . . .	176 12
	Show Licenses . . . . .	250 00
	Rent of Tenements . . . . .	273 00
	Water-Works . . . . .	73,458 20
	Interest on Taxes . . . . .	340 94
	Cost on Non-Resident Taxes . . . . .	9 00
	Taxes collected on List of 1874 . . . . .	22 68
	Taxes collected on List of 1875 . . . . .	36 75
	"    "    "    1876 . . . . .	24 35
	"    "    "    1877 . . . . .	25 41
	Amount carried forward . . . . .	\$347,758 89



## CITY OF MANCHESTER, N. H.,

*Credits himself with Payment of the following Expenditures: Cr.*

By Unpaid Bills, January 1, 1883 . . . . .	\$27,151 43
Temporary Loan . . . . .	121,000 00
Coupons, Water Bonds . . . . .	36,168 00
Coupons, City Bonds . . . . .	18,509 00
Interest . . . . .	3,454 68
Paupers off the Farm . . . . .	4,898 73
City Farm . . . . .	6,194 01
City Teams . . . . .	8,251 25
Highway District No. 1 . . . . .	245 13
"    "    "    2 . . . . .	10,239 39
"    "    "    3 . . . . .	1,516 25
"    "    "    4 . . . . .	612 75
"    "    "    5 . . . . .	385 08
"    "    "    6 . . . . .	217 74
"    "    "    7 . . . . .	817 97
"    "    "    8 . . . . .	1,005 06
"    "    "    9 . . . . .	524 22
"    "    "   10 . . . . .	1,756 43
"    "    "   11 . . . . .	1,118 18
"    "    "   12 . . . . .	261 55
"    "    "   13 . . . . .	178 54
New Highways . . . . .	10,132 20
Land Damages . . . . .	1,456 58
Watering Streets . . . . .	3,950 47
Lighting Streets . . . . .	8,594 15
Paving Streets . . . . .	8,409 08
Macadamizing . . . . .	5,653 56
Grading for Concrete . . . . .	3,386 37
Sewers and Drains . . . . .	21,190 01
Scavenger Teams . . . . .	3,944 26
Bridges . . . . .	4,374 29
Commons . . . . .	2,316 85
Incidental Expenses . . . . .	33,455 90
Pine Grove Cemetery . . . . .	4,284 49
Valley Cemetery . . . . .	5,201 84
Fire Department . . . . .	17,106 12
Fire-Alarm Telegraph . . . . .	939 74
Amount carried forward . . . . .	\$378,901 30

## THE TREASURER OF THE

*Dr. Charges himself with Receipts from the following Sources, and*

Amount brought forward	.	.	.	\$347,758	89
Taxes collected on List of 1878	.	.	.	43	25
“ “ “ 1879	.	.	.	23	00
“ “ “ 1880	.	.	.	23	04
“ “ “ 1881	.	.	.	45	95
“ “ “ 1882	.	.	.	11,329	28
“ “ “ 1883	.	.	.	287,650	33
Dog Licenses	.	.	.	490	83
				<hr/>	
				\$647,364	57
Unpaid Bills, December 31, 1883	.	.	.	32,885	67
				<hr/>	
				\$680,250	24

## CITY OF MANCHESTER, N. H.,

*Credits himself with Payment of the following Expenditures: Cr.*

	Amount brought forward . . . . .	\$378,901 30
By	Police Department . . . . .	23,580 68
	City Hall . . . . .	7,686 28
	Hydrant Service . . . . .	20,700 00
	Printing and Stationery . . . . .	1,088 74
	Repairs of Buildings . . . . .	2,795 07
	City Library . . . . .	2,628 18
	Women's Aid Hospital . . . . .	400 00
	Militia . . . . .	800 00
	Payment of Funded Debt . . . . .	13,000 00
	Abatement of Taxes . . . . .	3,323 71
	Discount on Taxes . . . . .	7,693 46
	State Tax . . . . .	41,060 00
	City Officers' Salaries . . . . .	11,419 12
	Decoration of Soldiers' Graves . . . . .	200 00
	Firemen's Parade . . . . .	327 20
	Repairs of School-Houses . . . . .	3,736 23
	Fuel . . . . .	2,225 75
	Furniture and Supplies . . . . .	888 34
	Books and Stationery . . . . .	725 62
	Printing and Advertising . . . . .	544 54
	Contingent Expenses . . . . .	1,462 37
	Care of Rooms . . . . .	2,868 47
	Evening Schools . . . . .	1,474 89
	Teachers' Salaries . . . . .	39,579 49
	Truant Officer . . . . .	812 50
	Reservoirs . . . . .	1 82
	New School-House, Bakersville . . . . .	12,511 62
	Battery Building and Ward Room . . . . .	4,441 94
	Interest on land . . . . .	3,093 16
	Water-works . . . . .	20,608 10
	Celebration, July 4, 1883 . . . . .	2,000 00
		<hr/>
		\$612,578 58
Cash in the Treasury, December 31, 1883 . . . . .		67,671 66
		<hr/>
		\$680,250 24

SYLVANUS B. PUTNAM,  
*City Treasurer.*

## FINANCE COMMITTEE'S REPORT.

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We hereby certify that we have examined the account of Sylvanus B. Putnam, city treasurer for the year eighteen hundred eighty-three, and find the same to be correct and properly vouched for.

S. B. STEARNS,  
SAMUEL LUNT,  
A. A. AINSWORTH,  
THOMAS L. THORPE,  
H. B. PUTNAM,

*Joint Standing Committee on Finance.*

MANCHESTER, January 9, 1884.

REVENUE ACCOUNT.



# ACCOUNTS OF APPROPRIATIONS.

## INTEREST.

		DR.
To appropriation . . . . .	\$20,000 00	
water-works, amount transferred	38,000 00	
balance overdrawn . . . . .	131 98	
	\$58,131 98	
		CR.
Paid Amoskeag Savings Bank . . . . .	\$766 96	
Manchester Savings Bank . . . . .	1,802 06	
Mechanics Savings Bank . . . . .	90 27	
Merrimack River Savings Bank . . . . .	90 27	
Guaranty Savings Bank . . . . .	85 41	
Manchester National Bank . . . . .	14 58	
Second National Bank . . . . .	3 34	
Amoskeag National Bank . . . . .	572 92	
Charles Brown . . . . .	29 17	
coupons, water . . . . .	36,168 00	
coupons. city . . . . .	18,509 00	
	\$58,131 98	

## PAUPERS OFF THE FARM.

		DR.
To balance from old account . . . . .	\$1,151 00	
appropriation . . . . .	3,500 00	
county of Hillsborough, board of inmates of Reform School . . . . .	1,986 71	

To L. B. Bodwell & Co., overdraft .	\$2 37	
W. H. Maxwell . . . . .	144 99	
balance . . . . .	113 66	
	<hr/>	\$6,898 73

CR.

Paid Daniel Sheehan, groceries delivered Mrs. T. Sullivan .	\$98 00
Daniel Sheehan, groceries delivered David McKay . . .	20 00
Daniel Sheehan, groceries delivered Mrs. J. Bohan . . .	56 47
Daniel Sheehan, groceries delivered Michael Kelley . . .	6 00
Daniel Sheehan, groceries delivered Martin Whalen . . .	5 00
Daniel Sheehan, groceries delivered Mrs. J. Reardon . . .	37 98
Daniel Sheehan, groceries delivered Mrs. Fitzgerald . . .	58 13
Daniel Sheehan, groceries delivered Mrs. McGrath . . .	9 48
Daniel Sheehan, groceries delivered Mrs. Turcott . . .	113 75
Daniel Sheehan, groceries delivered Walter Lynch . . .	25 54
William Weber, groceries delivered Mrs. Turcotte . . .	24 25
William Weber, groceries delivered Mrs. Hunter . . .	132 00
Wm. F. Sleeper & Co., groceries delivered Jos. Pierce . . .	16 00
Wm. F. Sleeper & Co., groceries delivered Mrs. Sarah Shanley . . . . .	16 00



Paid Wm. F. Sleeper & Co., groceries delivered Joseph Dearborn . . . . .	\$16 00
Wm. F. Sleeper & Co., groceries delivered Pyam Hovey	15 55
G. W. Wilson, groceries delivered L. D. Scagel . . . .	6 00
G. W. Wilson, groceries delivered Jerry Burke . . . .	4 00
G. W. Wilson, groceries delivered Mrs. Mary Fitzgerald .	25 00
G. W. Wilson, groceries delivered Mrs. Mary Green . . .	36 00
B. Bresnehan, groceries delivered Mrs. McKeon . . . .	15 00
B. Bresnehan, groceries delivered P. J. Handley . . . .	67 75
B. Bresnehan, groceries delivered Robert McMahon . . .	19 65
B. Bresnehan, groceries delivered Mrs. Shanley . . . .	15 62
Bartlett & Thompson, groceries delivered Jerry Burke . . .	2 00
Bartlett & Thompson, groceries delivered Thomas Connor . .	12 00
Bartlett & Thompson, groceries delivered L. D. Scagel . . .	31 00
S. L. Flanders, groceries delivered Mrs. Geo. H. Smith .	4 00
P. Harrington, groceries delivered Jerry Burke . . . .	2 00
P. Harrington, groceries delivered Mrs. J. Laughlin . . .	86 00

Paid P. Harrington, groceries delivered . . . . .	#8 00
Adams & Lamprey, groceries delivered Mary McGovern .	2 91
Adams & Lamprey, groceries delivered Judith McGrath .	10 20
Adams & Lamprey, groceries delivered Mrs. Hannah Woodman . . . . .	70
Adams & Lamprey, groceries delivered Mary Doherty .	25 18
Adams & Lamprey, groceries delivered L. M. Green .	4 00
Currier & Johnson, groceries delivered Pyam Hovey .	27 44
Josiah Taylor & Son, groceries delivered Ellen Donovan .	1 45
Josiah Taylor & Son, groceries delivered Abbie Bailey .	4 00
A. M. Eastman, groceries delivered Mrs. F. P. Forsaith .	7 56
Griffin Bros., groceries delivered Mrs. Anne Mackine .	15 00
D. M. Poore, groceries delivered Hannah Talty . . .	5 02
Eager & Rand, groceries delivered Helen Rhodes. . . .	12 00
B. F. Page, groceries delivered Mrs. Douglas Hunter .	13 46
Benton Brothers, groceries delivered Joseph Dearborn .	1 34
G. H. Stearns, groceries delivered Maurice Fitzgerald .	3 36
Esther Hardy . . . . .	37 00

Paid Mrs. O. J. Doble, board of Anna B. Ayer . . . . .	\$54 00
Geo. H. Batchelder, board of Geo. C. Batchelder . . . . .	108 00
Wm. C. Chase, board of Thom- as Chase . . . . .	45 00
Mrs. H. O'Brien, board of Jo- seph O'Neal . . . . .	55 00
Geo. H. Ellinwood, board of Geo. Blanchard . . . . .	86 28
Sarah A. Heselton . . . . .	10 00
State Industrial School, board of inmates . . . . .	2,218 02
N. H. Insane Asylum, board of John J. Murray . . . . .	234 04
N. H. Insane Asylum, board of Michael Gillis . . . . .	186 25
N. H. Insane Asylum, board of Asenath H. White . . . . .	211 36
N. H. Insane Asylum, board of Dudley P. Emerson . . . . .	83 60
N. H. Insane Asylum, board of Willard A. Reed . . . . .	54 82
L. B. Bodwell & Co., coal for Mrs. D. S. McKay . . . . .	13 86
L. B. Bodwell & Co., coal for Mrs. Timothy Sullivan . . . . .	4 75
L. B. Bodwell & Co., coal for Judith McGrath . . . . .	4 50
L. B. Bodwell & Co., coal for Ellen Rhodes . . . . .	4 00
L. B. Bodwell & Co., coal for Jerry Cronin . . . . .	4 75

Paid L. B. Bodwell & Co., coal for	
L. M. Green . . . . .	\$4 50
E. P. Johnson & Co., coal for	
Mrs. Doherty . . . . .	9 38
Luther Proctor, wood for Jo-	
seph Dearborn . . . . .	12 00
Matthew McGinnis, wood for	
L. M. Green . . . . .	2 00
Luther Proctor, wood for Pyam	
Hovey . . . . .	15 00
A. McIndoe, wood for Jerry	
Cullity . . . . .	4 00
A. McIndoe, wood for Patrick	
Consodine . . . . .	12 00
Moore & Preston, wood for L.	
Seagel . . . . .	4 00
Moore & Preston, wood for	
Thomas Connor . . . . .	8 00
J. J. Flynn, wood for Johanna	
Woodman . . . . .	2 00
A. G. Whitten, wood for L. D.	
Seagel . . . . .	40
Isaac Lefebre, wood for L. Sea-	
gel . . . . .	14 00
H. K. Mallard, wood for Pyam	
Hovey . . . . .	5 00
Geo. Whitford, wood for Mary	
Doherty . . . . .	2 75
Emanuel Eisman, wood for	
Julia Gaudes . . . . .	1 00
James Baldwin & Co., wood for	
Judith McGrath . . . . .	3 00
M. V. B. Garland, wood . . . . .	2 50

Paid Samuel Neal, wood for Mary	
Doherty . . . . .	\$2 00
Geo. E. Hall, medicines . . . . .	10 40
L. K. Mead, medicines . . . . .	89 97
J. S. Heath & Co., medicines . . . . .	80
J. B. Hall, medicines . . . . .	30
James M. Collity, professional services . . . . .	30 00
Exin Burlingame . . . . .	20 00
Furnald & Burbank, shoes . . . . .	1 25
C. M. Thompson, shoes . . . . .	1 25
Temple & Farrington, printing . . . . .	5 50
P. O. Woodman, funeral expenses of Joseph Dearborn . . . . .	3 34
Robert Hall . . . . .	4 50
Pearson & Wallace . . . . .	15 00
P. A. Devine . . . . .	30 00
town of Lancaster, care of Benson Joy . . . . .	43 06
Edward McDuffie . . . . .	3 00
H. K. Fuller, milk for Judith McGrath . . . . .	81
James Bros. . . . .	1 00
By reserved fund, amount transferred . . . . .	2,000 00
	<hr/>
	\$6,898 73

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CITY FARM.

		DR.
To balance from old account . . . . .	\$558 87	
appropriation . . . . .	2,500 00	
F. Allen, produce sold . . . . .	385 22	
Wingate & Gould, overdraft . . . . .	7 85	

To H. B. Moulton estate, use of bull	\$8 00	
J. Garvin, produce sold . . .	585 55	
balance overdrawn . . . . .	2,148 52	
		<u>\$6,194 01</u>

CR.

Paid Frederick Allen, supt., salary.	\$90 33
Frederick Allen, labor . . .	117 53
Adams & Lamprey, groceries	144 60
Geo. H. Stearns, groceries . .	50 93
P. C. Flanders & Co., fish . .	42 66
Smith & Bly, crackers . . . .	14 90
Bartlett & Thompson, groceries	97 22
E. M. Slayton, butter . . . .	127 82
A. G. Grenier, groceries . . .	17 00
Chas. T. Allen & Co., groceries	46 25
Hardy & Co., groceries . . . .	70 29
Bartlett & Colburn, groceries .	3 70
M. R. Currier, groceries . . .	2 00
Sawyer & Smith, groceries . .	13 80
W. F. Sleeper & Co., groceries	5 74
J. H. Wiggin & Co., groceries	83 06
Carl E. York, groceries . . . .	33 26
Colburn & Cate, crackers . . .	8 42
Pettee & Adams, grain . . . .	465 39
Samuel Cooper, grain . . . . .	328 90
Drake & Carpenter, flour, etc.	248 45
Wm. C. Rogers, hardware, etc.	101 18
J. B. Varick, hardware, etc. . .	66 52
Daniels & Co., hardware, etc. .	108 26
Pike & Heald, plumbing, etc. . .	34 71
J. S. Bacheler, plumbing, etc..	57 63
Thos. A. Lane, plumbing, etc..	3 37
G. R. Vance & Co., repairing washing-machine . . . . .	4 40

Paid L. A. Dickey, blacksmithing . . .	\$14 96
Wm. H. Hill, horseshoeing . . .	19 25
J. H. Cram, horseshoeing . . .	31 00
J. F. Woodbury, horseshoeing . . .	4 25
H. H. Dunckley, swill . . .	25 00
D. Kerwin & Son, soap, etc. . .	12 90
Geo. S. Clough & Co. lard, etc. . .	11 01
Robinson & Stearns, meats . . .	257 87
Clarke & Johnson, meats . . .	17 04
J. Hodge, lumber . . .	38 43
A. C. Wallace, lumber . . .	198 82
A. J. Sawyer, lumber . . .	82 09
Head & Dowst, lumber and bricks . . . . .	51 67
George W. Rief, lumber and labor . . . . .	279 24
P. Brown, lumber and labor . . .	120 21
Hawley & Barnard, dry goods . . .	67 42
Weston & Hill, dry goods . . .	65 54
Piper & Hawley, dry goods . . .	6 88
N. S. Clark, dry goods . . .	30 32
H. M. Tarbell, dry goods . . .	2 50
Waite Bros, dry goods . . .	27 69
D. A. Simons, crockery, etc. . .	13 00
Plumer, Holton & Co., clothing . . .	15 25
M. O. P. Clothing Co., clothing . . .	7 25
Geo. E. Mitchell, clothing . . .	14 65
H. M. Moody, clothing . . .	11 52
E. P. Johnson & Co., coal . . .	39 19
J. B. McCrillis & Son, wagon, sleigh, etc. . . . .	148 73
G. S. Telephone Co. . . . .	45 00
Mitchell & Heath, boots and shoes . . . . .	16 55

Paid Wingate & Gould, boots and shoes . . . . .	\$20 10
Furnald & Burbank, shoes . . . . .	2 50
McDonald & Cody, shoes . . . . .	3 75
Geo. H. Hubbard, tobacco . . . . .	30 84
R. G. Sullivan, tobacco . . . . .	23 98
J. Smith & Son, horseshoeing . . . . .	10 95
J. Y. McQueston & Co., extension table . . . . .	11 00
H. D. Gordon, iron bedsteads . . . . .	22 80
H. Gordon, wall-paper . . . . .	4 98
Higgins Bros., iron bedsteads, etc. . . . .	198 54
Concord R. R. corp., freight . . . . .	6 27
F. N. McLaren, repairing harness, etc. . . . .	10 95
E. W. Kimball, repairing harness, etc. . . . .	22 37
C. W. H. Moulton, ladder and hooks . . . . .	9 50
L. K. Mead, medicines . . . . .	3 95
A. F. Perry, medicines . . . . .	9 36
Geo. E. Hall, medicines . . . . .	6 75
C. B. Littlefield, medicines . . . . .	2 25
C. H. Wood, painting signs . . . . .	3 00
Wm. B. Abbott, painting . . . . .	341 67
James R. Carr, painting . . . . .	23 12
J. J. Abbott, paint . . . . .	40
I. P. Emery & Co., tin ware . . . . .	23 15
Temple & Farrington, blank-books, etc. . . . .	26 61
J. S. Holt & Co., soap . . . . .	24 12
Wingate & Gould, shoes . . . . .	14 85
C. M. Bailey, tin ware, etc. . . . .	23 56



Paid Sweet & Stearns, brackets, etc.	\$20 20
Sturgis & Dodge, professional services . . . . .	7 50
A. A. Moore, lightning-rods . . . . .	121 00
Richardson Manufacturing Co., manure-spreader. . . . .	100 00
T. B. Everett & Co. . . . .	35 00
David Rumrill, refrigerator . . . . .	111 00
L. N. Dufrain, repairing pump, etc. . . . .	4 00
B. F. Porter, filing saws . . . . .	1 30
R. M. Rollins, mowing-machine . . . . .	125 00
C. W. Cheney, one cow . . . . .	40 00
Bennett & Lord, mason-work . . . . .	4 00
Moses C. Eastman, soap . . . . .	3 36
J. Garvin, cow, harness, etc. . . . .	63 50
J. B. Pattee . . . . .	10 00
F. Simpkins, manure . . . . .	5 00
Michael Lane, use of boar . . . . .	3 00
George S. Smith, cows . . . . .	300 00
G. H. Dorr, sink, pails, etc. . . . .	4 00
H. J. Marsh, pasturing . . . . .	1 50
J. Perham, plowing . . . . .	7 50
Daniel Connor . . . . .	4 00
P. C. Cheney Co., paper . . . . .	1 28
C. W. Rowell, cows . . . . .	120 00
T. A. Barker, swill . . . . .	75 00
Gideon Flanders, ice . . . . .	45 00
A. Bodwell & Son, stone . . . . .	12 00
F. F. Dearborn, pasturing . . . . .	25 00
	<hr/>
	\$6,194 01

## CITY TEAMS.

		DR.
To appropriation . . . . .	\$3,000 00	
District No. 2 . . . . .	925 50	
District No. 10 . . . . .	137 88	
grading for concrete . . . . .	370 75	
scavenger teams . . . . .	976 00	
repairs of buildings . . . . .	27 50	
sewers and drains . . . . .	213 25	
new highways . . . . .	156 50	
watering streets . . . . .	851 25	
paving . . . . .	68 00	
macadamizing . . . . .	131 25	
incidental expenses . . . . .	1 00	
commons . . . . .	36 00	
Wm. N. Chamberlain, manure sold . . . . .	10 00	
balance overdrawn . . . . .	1,346 37	
	<hr style="width: 100%; border: 0.5px solid black;"/>	\$8,251 25
		CR.
Paid E. P. Johnson, hay . . . . .	\$1,035 75	
E. S. Whitney, hay . . . . .	199 50	
Wilbur Fisk, carrots . . . . .	38 80	
C. H. Tirrell, straw . . . . .	16 02	
H. H. Young, straw . . . . .	7 11	
H. S. Plumer, straw . . . . .	9 72	
C. N. Harvey, straw . . . . .	25 60	
Amos Chadwick, straw . . . . .	11 76	
J. M. Randlett, straw . . . . .	9 49	
J. L. Fogg, straw . . . . .	11 45	
Samuel Cooper, grain . . . . .	464 57	
Pettec & Adams, grain . . . . .	539 45	
H. Fradd & Co., grain . . . . .	350 77	

Paid J. Stickney, neat's-foot oil . . . . .	\$0 80
J. Stickney, horse-cover, etc. . . . .	14 00
Frank Hutchinson, wagon . . . . .	100 00
Stephen Austin, blacksmithing . . . . .	7 00
D. F. Cressey, blacksmithing . . . . .	52 16
J. B. McCrillis & Son, carts and repairs . . . . .	1,716 09
John Barnes, blacksmithing . . . . .	6 10
Wm. H. Hill, horseshoeing . . . . .	42 11
J. F. Woodbury & Co., horse- shoeing . . . . .	98 95
J. H. Cram, horseshoeing . . . . .	133 50
H. C. Ranno, harness and re- pairs . . . . .	163 35
D. S. Ames, harness and re- pairs . . . . .	44 85
Ezra W. Kimball, harness and repairs . . . . .	280 36
Daniels & Co., stable brooms, etc. . . . .	3 46
Charles D. Welch, horses . . . . .	700 00
Simmons & Jobert, horses . . . . .	950 00
F. S. Worthen, horse . . . . .	235 00
George H. Stearns, oil . . . . .	50
Weston & Hill, flannel . . . . .	2 50
A. N. Clapp, corn and salt . . . . .	1 75
Concord Railroad, freight on horses . . . . .	15 30
S. F. Burnham, professional services . . . . .	7 50
Dr. J. Alexander, professional services . . . . .	24 10
C. L. Moulton, professional ser- vices . . . . .	3 00

Paid S. F. Burnham, professional services . . . . .	66 50	
J. B. Hall, liniment, horse medicine, etc. . . . .	36 44	
Charles T. Newman, liniment, horse medicine, etc. . . . .	25 67	
Z. F. Campbell, liniment, horse medicine, etc. . . . .	15 02	
A. J. Sawyer . . . . .	3 00	
W. N. Chamberlain, express to Boston . . . . .	6 00	
D. Kerwin & Son, Castile soap . . . . .	5 25	
G. W. Butterfield, driver . . . . .	292 25	
Jeremiah Lane, driver . . . . .	277 50	
Charles Denyou, driver . . . . .	81 75	
Walter Seaward, driver . . . . .	76 50	
George Seaward, driver . . . . .	1 50	
C. H. Rogers, driver . . . . .	96 75	
P. C. Young . . . . .	1 00	
J. Taylor & Son, oil, salt, etc. . . . .	3 75	
		\$8,251 25

TEMPORARY LOAN.

		DR.
To Charles Brown . . . . .	\$1,000 00	
Manchester National Bank . . . . .	5,000 00	
Merchants National Bank . . . . .	5,000 00	
Second National Bank . . . . .	10,000 00	
Amoskeag National Bank . . . . .	15,000 00	
Amoskeag Savings Bank . . . . .	45,000 00	
Guaranty Savings Bank . . . . .	5,000 00	
Merrimack River Savings Bank . . . . .	15,000 00	
Manchester Savings Bank . . . . .	80,000 00	
Mechanics Savings Bank . . . . .	10,000 00	
		\$191,000 00

		CR.
Paid Charles Brown . . . . .	\$1,000 00	
Manchester National Bank . . . . .	5,000 00	
Merchants National Bank . . . . .	5,000 00	
Second National Bank . . . . .	10,000 00	
Manchester Savings Bank . . . . .	40,000 00	
Mechanics Savings Bank . . . . .	10,000 00	
Merrimack River Savings Bank . . . . .	15,000 00	
Guaranty Savings Bank . . . . .	5,000 00	
Amoskeag Savings Bank . . . . .	30,000 00	
By balance . . . . .	70,000 00	
	\$191,000 00	

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#### HIGHWAY DISTRICT NO. 1.

		DR.
To appropriation . . . . .	\$300 00	
	\$300 00	
		CR.
Paid M. F. Dodge, superintendent . . . . .	\$10 50	
Orison Webber, superintendent . . . . .	44 70	
J. B. Varick, hardware . . . . .	2 95	
Daniels & Co., hardware . . . . .	3 10	
for labor of men and teams . . . . .	183 88	
By balance on hand . . . . .	54 87	
	\$300 00	

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#### HIGHWAY DISTRICT NO. 2.

		DR.
To appropriation . . . . .	\$10,000 00	
H. W. Leach, sand . . . . .	20 25	
balance overdrawn . . . . .	219 14	
	\$10,239 39	

Paid James Patten, superintendent	\$607 75
Warren Harvey, superintendent	170 59
W. C. Rogers, shovels, picks, etc.	185 01
John B. Varick, shovels, picks, etc. . . . .	78 36
Daniels & Co. shovels, picks, etc. . . . .	78 85
J. Stickney, oil-hats, etc. . . . .	3 80
J. Bryson, painting . . . . .	19 03
J. J. Abbott, paint . . . . .	4 28
A. J. Sawyer, lumber . . . . .	16 49
Head & Dowst, brick . . . . .	56 00
L. J. Flint, carpenter-work . . . . .	3 62
J. Hodge, lumber . . . . .	7 13
Welch & Culliney, repairing tools, etc. . . . .	15 85
Welch & Smith, repairing tools, etc. . . . .	87 95
R. W. Flanders, repairing tools, etc. . . . .	76 36
L. A. Dickey, repairing tools, etc. . . . .	43 74
Stephen Derry, repairing tools, etc. . . . .	5 15
Lamson & Marden, repairing tools, etc. . . . .	57 51
Joseph Boisvert, repairing tools, etc. . . . .	75
Derry & Co., repairing tools . . . . .	5 15
Geo. H. Stearns, oil, salt, etc.	6 80
George C. Lord, oatmeal . . . . .	3 30
A. H. Lowell, castings . . . . .	5 49
T. W. Lane, time-books, etc. . . . .	6 44

Paid Wm. H. Vickery, keys . . . . .	\$0 45	
C. H. Robie, concreting . . . . .	78 42	
Concord R. R. corp., freight . . . . .	25	
C. A. Bailey, stone . . . . .	94 25	
Frank M. Forsaith, brooms . . . . .	1 00	
Goodwin Bros., lumber . . . . .	2 75	
L. B. Bodwell & Co., wood . . . . .	2 00	
Abbot-Downing Co., chain for street-sweeper . . . . .	10 00	
Abbot-Downing Co., refilling street-broom, etc. . . . .	32 25	
G. H. Dorr, desk . . . . .	10 00	
Temple & Farrington, blank- books . . . . .	9 00	
B. F. Porter, filing saws . . . . .	9 80	
T. L. Thorpe . . . . .	1 50	
city-farm labor . . . . .	61 00	
for labor of men and teams . . . . .	8,381 32	
	<hr/>	\$10,239 39

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HIGHWAY DISTRICT NO. 3.

		DR.
To appropriation . . . . .	\$600 00	
reserved fund, amount trans- ferred . . . . .	916 25	
	<hr/>	1,516 25
		CR.
Paid Ed. N. Baker, superintendent	\$269 00	
L. A. Dickey, blacksmithing . . . . .	8 20	
R. W. Flanders, blacksmithing . . . . .	11 14	
Daniels & Co., hardware . . . . .	1 00	
J. B. Varick, hardware . . . . .	1 63	

Paid James Baldwin & Co., lumber	\$3 00	
Head & Dowst, lumber . . . . .	31 20	
J. Hodge, lumber . . . . .	1 60	
for labor of men and teams . . . . .	1,189 48	
	<u>          </u>	\$1,516 25

## HIGHWAY DISTRICT NO. 4.

		DR.
To appropriation . . . . .	\$400 00	
balance overdrawn . . . . .	212 75	
	<u>          </u>	\$612 75
		CR.
Paid C. C. Webster, superintendent	\$20 86	
R. N. Whittemore, " . . . . .	401 00	
for labor of men and teams . . . . .	190 89	
	<u>          </u>	\$612 75

## HIGHWAY DISTRICT NO. 5.

		CR.
To appropriation . . . . .	\$400 00	
	<u>          </u>	\$400 00
		CR.
Paid C. A. Pierce, superintendent . . . . .	\$39 50	
S. F. Knowles, " . . . . .	17 63	
W. W. Dickey, " . . . . .	113 00	
for labor of men and teams . . . . .	190 70	
J. B. Varick, hardware . . . . .	1 25	
Joseph Boisvert, blacksmithing . . . . .	1 70	
R. W. Flanders, blacksmithing . . . . .	1 05	
A. C. Wallace, lumber . . . . .	20 25	
By balance on hand . . . . .	14 92	
	<u>          </u>	\$400 00



## HIGHWAY DISTRICT NO. 6.

		DR.
To appropriation . . . . .	\$400 00	
	<u>          </u>	\$400 00
		CR.
Paid I. T. Webster, superintendent	\$4 81	
D. H. Dickey, " . . . . .	58 00	
labor of men and teams . . . . .	154 93	
By balance on hand . . . . .	182 26	
	<u>          </u>	\$400 00

## HIGHWAY DISTRICT NO. 7.

		DR.
To appropriation . . . . .	\$700 00	
balance overdrawn . . . . .	117 97	
	<u>          </u>	\$817 97
		CR.
Paid H. A. Horton, superintendent	\$23 00	
Charles Francis, " . . . . .	101 50	
J. J. Abbott, paint . . . . .	63	
J. B. Varick, hardware . . . . .	11 99	
Atherton & Benton, salt, etc. . . . .	1 34	
Thomas A. Lane, Akron pipe . . . . .	40	
John Garland, stone . . . . .	12 00	
for labor of men and teams . . . . .	667 11	
	<u>          </u>	\$817 97

## HIGHWAY DISTRICT NO. 8.

		DR.
To appropriation . . . . .	\$600 00	
Daniels & Co., overdraft . . . . .	7 08	
balance overdrawn . . . . .	347 98	
	<u>          </u>	\$1,005 06

		CR.
Paid J. Garvin, superintendent . . . . .	\$2 30	
E. F. Wilson, superintendent . . . . .	6 75	
Henry Thompson, blacksmithing . . . . .	6 45	
Daniels & Co., hardware . . . . .	30 42	
Joshua Page, blacksmithing . . . . .	8 70	
S. G. Reed, gravel . . . . .	4 40	
for labor of men and teams . . . . .	946 04	
	<hr/>	\$1,005 06

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HIGHWAY DISTRICT NO. 9.

		DR.
To appropriation . . . . .	\$500 00	
balance overdrawn . . . . .	24 22	
	<hr/>	\$524 22

		CR.
Paid J. J. Garmon, superintendent . . . . .	\$210 00	
Head & Dowst, lumber . . . . .	3 12	
Daniels & Co., plow . . . . .	11 00	
L. A. Dickey, blacksmithing . . . . .	2 45	
for labor of men and teams . . . . .	297 65	
	<hr/>	\$524 22

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HIGHWAY DISTRICT NO. 10.

		DR.
To appropriation . . . . .	\$1,300 00	
balance overdrawn . . . . .	456 43	
	<hr/>	\$1,756 43

		CR.
Paid F. S. Worthen, superintendent . . . . .	\$146 00	
Wm. N. Chamberlain . . . . .	102 00	
J. B. Varick, hardware . . . . .	100 94	

Paid Daniels & Co., hardware . . . . .	\$3 00	
W. C. Rogers, hardware . . . . .	60	
A. N. Clapp, hardware . . . . .	2 89	
T. A. Lane, iron pipe, etc. . . . .	12 24	
Head & Dowst, lumber, etc. . . . .	103 00	
A. C. Wallace, lumber . . . . .	50 73	
Stephen Austin, blacksmithing . . . . .	6 05	
John Barnes, blacksmithing . . . . .	5 00	
Pettee & Adams, cement . . . . .	8 65	
F. E. Scheer, stone . . . . .	9 00	
D. F. Cressey & Co., black- smithing . . . . .	7 39	
J. G. Holbrook, stone . . . . .	21 00	
Daniel Butterfield, stone . . . . .	9 75	
C. O'Shaughnessey, stone . . . . .	3 10	
Geo. W. Goffe, poles . . . . .	10 00	
James Baldwin & Co., plank . . . . .	11 60	
James Kennard, sand . . . . .	4 40	
for labor of men and teams . . . . .	\$1,129 09	
	<u>          </u>	\$1,756 43

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HIGHWAY DISTRICT NO. 11.

		DR.
To appropriation . . . . .	\$700 00	
balance . . . . .	418 18	
	<u>          </u>	\$1,118 18
		CR.
Paid Jas. E. Bailey, superintendent . . . . .	\$474 51	
Manchester Axe Co., black- smithing . . . . .	1 90	
Daniels & Co., hardware . . . . .	4 40	
Joseph Boisvert, blacksmithing . . . . .	80	
for labor of men and teams . . . . .	636 57	
	<u>          </u>	\$1,118 18

## HIGHWAY DISTRICT NO. 12.

		DR.
To appropriation . . . . .	\$250 00	
balance overdrawn . . . . .	11 55	
	<hr/>	\$261 55
		CR.
Paid city farm, for labor . . . . .	\$261 55	
	<hr/>	\$261 55

## HIGHWAY DISTRICT NO. 13.

		DR.
To appropriation . . . . .	\$200 00	
	<hr/>	\$200 00
		CR.
Paid J. P. Fellows, superintendent	\$6 00	
J. H. Campbell,            "	27 00	
E. C. Tilton, stone . . . . .	3 93	
labor of men and teams . . . . .	141 61	
By balance on hand . . . . .	21 46	
	<hr/>	\$200 00

## NEW HIGHWAYS.

		DR.
To appropriation . . . . .	\$2,500 00	
reserved fund, am't transferred . . . . .	7,632 20	
	<hr/>	\$10,132 20
		CR.
Paid Harriet M. Davis, land . . . . .	\$4,800 00	
Joseph A. Brown, building Jew-		
ett street . . . . .	224 00	

Paid John Proctor, building Proctor road . . . . .	\$225 00	
Head & Dowst, lumber . . . . .	36 48	
J. H. Maynard, lumber and labor . . . . .	84 27	
A. J. Sawyer, lumber . . . . .	44 94	
D. H. Morgan, carpenter-work . . . . .	12 50	
R. W. Flanders, blacksmithing . . . . .	3 10	
J. B. Varick, hardware . . . . .	3 00	
Warren Harvey, covering stone . . . . .	12 00	
Wm. Landry, stone-work . . . . .	110 67	
Dennis Landry, use of derrick . . . . .	10 00	
M. F. Dodge, gravel . . . . .	18 70	
for labor of men and teams . . . . .	4,547 54	
	<u>          </u>	\$10,132 20

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LAND DAMAGES.

To appropriation . . . . .	\$1,000 00	Dr.
balance overdrawn . . . . .	456 58	
	<u>          </u>	\$1,456 58
Paid H. H. Young, Jewett street . . . . .	\$200 00	Cr.
Abbie M. Wheeler, Shasta street . . . . .	833 33	
Harriet A. Moulton, Milford street . . . . .	300 00	
Timothy Collins, Proctor road . . . . .	100 00	
C. M. Downs, Laurel street . . . . .	23 25	
	<u>          </u>	\$1,456 58

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WATERING STREETS.

To appropriation . . . . .	\$2,000 00	Dr.
reserved fund, amount transferred . . . . .	1,950 47	
	<u>          </u>	\$3,950 47

		CR.
Paid Pike & Heald, plumbing . . . . .	\$15 95	
Thomas A. Lane, plumbing . . . . .	10 05	
Manchester Water-works, water . . . . .	1,370 00	
J. B. McCrillis & Son, water-cart . . . . .	525 00	
J. B. McCrillis Son, repairing water-carts . . . . .	167 97	
for labor of men and teams . . . . .	1,861 50	
	<hr/>	\$3,950 47

## LIGHTING STREETS.

		DR.
To appropriation . . . . .	\$7,000 00	
reserved fund, amount trans- ferred . . . . .	1,594 15	
	<hr/>	\$8,594 15

		CR.
Paid Manchester Gas Co., gas, etc.,	\$3,800 84	
Manchester Electric Light Co.,	1,735 78	
A. H. Lowell, lamp posts, frames, etc. . . . .	178 73	
J. B. Varick, glass, etc. . . . .	35 92	
Wm. C. Rogers, glass, etc. . . . .	37 50	
James S. Bacheler, repairs, etc.	74 25	
T. A. Lane, repairs, etc. . . . .	10 59	
Brock & Driscoll, repairs, etc.	48 15	
Pike & Heald, repairs, etc. . . . .	3 60	
J. B. Clarke, printing . . . . .	4 68	
Ed. N. Fogg, oil lamps, etc. . . . .	1 30	
J. Hayes & Co. . . . .	7 00	
F. S. Worthen, lighting lamps etc. . . . .	2,224 27	
I. R. Dewey, lighting lamps, etc.	431 54	
	<hr/>	\$8,594 15

## PAVING STREETS.

		DR.
To appropriation . . . . .	\$2,000 00	
C. A. Bailey, overdraft . . . . .	1,450 00	
reserved fund, amount trans-		
ferred . . . . .	4,959 08	
	<u>                    </u>	\$8,409 08

		CR.
Paid Charles A. Bailey, block pav-		
ing . . . . .	\$4,029 55	
Charles H. Robie, concrete		
crossings, etc. . . . .	1,320 04	
R. A. Lawrence, cobble paving	5 62	
F. W. McKinley, cobble paving	10 00	
Adam Gowing, cobble paving .	4 00	
C. C. Harriman, cobble paving	7 25	
H. D. Beebe, cobble paving .	52 50	
C. H. Simpson, cobble paving .	113 50	
H. A. Horton, cobble paving .	24 00	
J. Nutt, cobble paving . . . . .	39 00	
J. H. Coburn, cobble paving .	31 50	
for labor of men and teams .	2,772 12	
	<u>                    </u>	\$8,409 08

## MACADAMIZING STREETS.

		DR.
To appropriation . . . . .	\$2,500 00	
reserved fund, amount transferred	3,153 56	
	<u>                    </u>	\$5,653 56

		CR.
Paid Manchester Water-works, water	\$30 00	
Hutchinson Bros, repairs on		
stone-crusher . . . . .	635 89	

Paid J. B. Varick, hardware . . .	\$13 28
Moore & Preston, wood . . .	6 00
James Briggs, repairing pipe . . .	25
T. L. Thorpe . . . . .	1 00
C. A. Bailey, rubble . . . . .	95 00
Burns & Poor, wood . . . . .	11 50
George Whitford, stone . . . . .	252 00
H. A. Horton, stone . . . . .	22 00
Joseph Tirrell, stone . . . . .	67 00
James Fullerton, stone . . . . .	67 00
Charles H. Simpson, stone . . . . .	100 00
I. N. Plumer, stone . . . . .	4 00
J. H. Giddings, stone . . . . .	18 00
E. C. Emerson, stone . . . . .	1 00
Daniel Butterfield, stone . . . . .	88 00
Luther Campbell, stone . . . . .	26 00
S. P. Worthley, stone . . . . .	48 00
W. Campbell, stone . . . . .	3 00
S. F. Adams, stone . . . . .	15 00
D. G. Andrews, stone . . . . .	8 00
Mrs. L. A. Willey, stone . . . . .	20 50
Henry Porter, stone . . . . .	8 00
J. H. Coburn, stone . . . . .	173 00
C. M. Stevens, stone . . . . .	7 00
H. D. Beebe, stone . . . . .	32 50
A. S. Plumer, stone . . . . .	39 00
William Landry, stone . . . . .	2 50
M. J. Turner, stone . . . . .	44 00
James Nutt, stone . . . . .	40 00
J. Perham, stone . . . . .	8 00
J. L. Fogg, stone . . . . .	57 00
George Thompson, stone . . . . .	25 00
Sumner Cumner, stone . . . . .	8 00



Paid J. Garland, stone . . . . .	\$40 00	
James Kennard, stone . . . . .	25 25	
for labor of men and teams . . . . .	3,611 89	
	<u>          </u>	\$5,653 56

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GRADING FOR CONCRETE.

		DR.
To appropriation . . . . .	\$3,000 00	
balance overdrawn . . . . .	386 37	
	<u>          </u>	\$3,386 37
		CR.
Paid C. H. Robie, concreting . . . . .	\$62 79	
Pettee & Adams, lime . . . . .	65	
for labor of men and teams . . . . .	3,322 93	
	<u>          </u>	\$3,386 37

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SEWER AND DRAINS.

		DR.
To appropriation . . . . .	\$20,000 00	
sundry persons, sewer licences . . . . .	1,452 05	
	<u>          </u>	\$21,452 05
		CR.
Paid F. B. Potter, sewer pipe . . . . .	\$7,653 39	
Concord Railroad, freight . . . . .	70 20	
Drake & Carpenter, cement . . . . .	133 75	
Pettee & Adams, cement . . . . .	218 05	
H. Fradd & Co., kerosene oil, oatmeal, etc. . . . .	15 69	
A. N. Clapp, powder, fuse, etc. . . . .	15 49	
C. E. Haines, rubber boots . . . . .	4 00	
W. H. Cate, rubber boots . . . . .	7 50	

Paid T. L. Thorpe, paper bags . . . . .	\$9 56
F. H. Auger, rubber boots . . . . .	4 00
Furnald & Burbank, rubber boots . . . . .	7 00
McDonald & Cody, rubber boots . . . . .	10 50
G. W. Thayer & Son, rubber boots . . . . .	19 50
John Cayzer, rubber boots . . . . .	24 50
A. H. Lowell, iron castings, etc. . . . .	495 10
T. A. Lane, iron pipe, plumbing, etc. . . . .	224 53
Pike & Heald, lanterns, etc. . . . .	14 92
J. Taylor & Son, oil . . . . .	6 50
Jas. Briggs, blasting tubes, etc. . . . .	18 47
D. F. Cressey, blacksmithing . . . . .	99 67
Welch & Culliney, blacksmithing, etc. . . . .	17 70
J. B. Varick, hardware, powder, fuse, etc. . . . .	259 18
J. Hodge, lumber . . . . .	65
A. J. Sawyer, lumber . . . . .	4 82
A. C. Wallace, lumber . . . . .	100 00
Head & Dowst, lumber . . . . .	18 80
A. Bodwell & Son, stone . . . . .	157 50
Amoskeag Manufacturing Co., iron castings, etc. . . . .	16 15
J. Stickney, oil suits, etc. . . . .	10 00
Natt & W. F. Head, brick . . . . .	126 00
J. B. Clarke, printing . . . . .	10 62
Manchester Mills, use of derrick . . . . .	108 00
Bennett & Lord, mason-work . . . . .	17 50
for labor of men and men . . . . .	11,299 77
By balance on hand . . . . .	262 04
	<hr/> \$21,452 05

## BRIDGES.

		DR.
To appropriation . . . . .	\$2,500 00	
reserved fund, amount trans- ferred . . . . .	1,874 29	
	<hr/>	\$4,374 29
		CR.
Paid A. C. Wallace, lumber . . . . .	\$2,384 85	
J. Hodge, lumber . . . . .	14 30	
Head & Dowst, lumber . . . . .	14 69	
Walter Neal, labor . . . . .	642 74	
E. A. G. Holmes, labor . . . . .	353 11	
J. B. Varick, hardware . . . . .	194 34	
D. F. Cressey & Co., black- smithing . . . . .	34 62	
Irad Poor, lumber . . . . .	47 00	
D. Wells, lumber . . . . .	16 56	
T. A. Lane, plumbing, etc. . . . .	44 39	
Nelson W. Page, trucking lum- ber . . . . .	1 50	
D. H. Morgan, repairing bridge	2 00	
Pius Brown, " "	5 50	
S. L. Flanders, nails, etc. . . . .	5 04	
Hutchinson Brothers, black- smithing . . . . .	11 85	
A. N. Clapp, spikes . . . . .	24	
George H. Colby, stone . . . . .	18 00	
C. H. Robie, concreting . . . . .	159 05	
J. Bryson, Jr., painting . . . . .	39 54	
for labor of men and teams . . . . .	384 97	
	<hr/>	\$4,374 29

## COMMONS.

		DR.
To appropriation . . . . .	\$1,500 00	
Wm. P. Scott, hay sold . . . . .	40 00	
A. H. Lowell, old iron . . . . .	50 20	
J. Perham, overdraft . . . . .	8 00	
reserved fund, amount trans- ferred . . . . .	718 65	
	<hr/>	\$2,316 85
		CR.
Paid Wm. P. Scott, superintendent	\$412 55	
L. M. Aldrich, lumber and labor	19 44	
Daniels & Co., hardware, paint, etc. . . . .	48 77	
J. B. Varick, hardware, . . . . .	5 90	
A. H. Lowell, castings and labor . . . . .	111 62	
C. H. Robie, concreting . . . . .	380 20	
Manchester Water-works, water	25 00	
James S. Bachelor . . . . .	1 25	
Wm. Sutcliffe, blacksmithing . . . . .	1 30	
Seth P. Campbell, maple trees	23 00	
Amoskeag Manufacturing Co., castings . . . . .	\$5 77	
J. B. Clarke, printing . . . . .	23 95	
J. J. Abbott, paint . . . . .	63	
Champion Iron Fence Co., fence gates . . . . .	234 00	
C. H. Hodgman & Co., trucking	1 50	
B., L., & C. R. R., freight . . . . .	8 65	
for labor of men and teams . . . . .	1,013 32	
	<hr/>	\$2,316 85

## INCIDENTAL EXPENSES.

	DR.
To appropriation . . . . .	\$35,000 00
E. W. Perkins, land sold . . . . .	112 55
T. A. Lane, overdraft . . . . .	5 56
	—————\$35,118 11
	CR.
Paid Eliza Creighton, execution . . . . .	\$446 30
Daniel Farmer, “ . . . . .	83 54
J. A. Weston, “ . . . . .	37 07
Kate Tooher, “ . . . . .	442 23
D. Kerwin & Son, damage to team . . . . .	36 25
Samuel W. Dunbar, damage to team . . . . .	25 00
Sarah E. Swett, injury to person . . . . .	150 00
J. B. Ellinwood, “ “ . . . . .	200 00
Isaac E. Wyman, “ “ . . . . .	110 00
F. F. Hall, damage to wagon . . . . .	11 50
D. W. Batchelder, damage to team . . . . .	15 00
A. Wicom, damage to team . . . . .	5 00
J. G. Sturgis, “ “ . . . . .	50 00
Mary A. Walsh, injury to person . . . . .	100 00
Mrs. Tewksbury, “ “ . . . . .	100 00
Eri P. Twitchell, bounty . . . . .	150 00
Henry W. Clarke, bounty . . . . .	150 00
Wm. B. Abbott, painting guide- boards . . . . .	20 29
Peter Craven, painting . . . . .	3 12
A. D. Sherer “ . . . . .	29 50
Sullivan & Sloan, “ . . . . .	4 50
Joel Daniels, “ . . . . .	6 61

Paid Head & Dowst, lumber . . .	\$579 44
A. C. Wallace, " . . .	237 76
A. J. Sawyer, " . . .	5 76
D. H. Morgan, carpenter-work	34 75
Irak Poor, cedar posts and lumber . . . . .	83 28
George W. Rief, lumber and labor . . . . .	2,200 40
George Holbrook, lumber and labor . . . . .	238 88
Alpheus Gay, lumber and labor . . . . .	63 64
J. H. Maynard, lumber and labor . . . . .	8 80
Mead, Mason, & Co., lumber and labor . . . . .	531 36
L. M. Aldrich, lumber and labor . . . . .	51 12
Robertson & Haselton, sign- boards . . . . .	4 90
John B. Clarke, printing . . .	143 16
Union Pub. Co., printing . . .	344 30
Livingston & Kimball, printing	60 15
Temple & Farrington, blank- books, etc. . . . .	269 16
Manchester Water-works, water	194 77
N. P. Kidder, making city report . . . . .	150 00
H. I. Rowell, bounty on crows	70
Eddie A. Moore, " " . . .	80
Morris Lamprey, " " . . .	50
Levi Caldwell, " " . . .	70
H. M. Young, " " . . .	40
Willie Burlingame, " " . . .	1 10

Paid J. Emerson, bounty on crows	\$0 10
H. Lovering, " "	10
Leroy McDonald, " "	40
Mary F. Adams, " "	50
W. B. French, " "	10
Rodney W. Abbott, " "	40
Robert A. Ray, Manchester's assessment in Knibbs valve suit . . . . .	5,714 28
Wm. Holland, return of births and deaths . . . . .	1 25
Leonard French, return of births and deaths . . . . .	12 25
C. F. Bonney, return of births and deaths . . . . .	4 00
M. Richard, return of births and deaths . . . . .	17 75
W. W. Wilkins, return of births and deaths . . . . .	5 00
Charles F. George, return of births and deaths . . . . .	1 00
J. D. Lovering, return of births and deaths . . . . .	25
E. A. Lanouette, return of births and deaths . . . . .	20 25
W. J. Sleeper, return of births and deaths . . . . .	1 75
William A. Webster, return of births and deaths . . . . .	75
C. B. Sturtevant, return of births and deaths . . . . .	25
J. W. D. MacDonald, return of births and deaths . . . . .	25 75
George D. Towne, return of births and deaths . . . . .	1 50

Paid D. S. Adams, return of births and deaths . . . . .	\$3 50
H. de W. Carvelle, return of births and deaths . . . . .	3 25
J. A. Jackson, return of births and deaths . . . . .	10 50
J. W. Mooar, return of births and deaths . . . . .	4 50
J. H. Mills, return of births and deaths . . . . .	1 25
O. D. Abbott, return of births and deaths . . . . .	6 50
Sturgis & Dodge, return of births and deaths . . . . .	13 75
Emil Custer, return of births and deaths . . . . .	1 75
Charles Corey, return of births and deaths . . . . .	25
G. A. Lacerte, return of births and deaths . . . . .	50
A. D. Smith, return of births and deaths . . . . .	3 00
Thomas Wheat, return of births and deaths . . . . .	1 50
N. P. Taplin, return of births and deaths . . . . .	75
C. M. Styles, return of births and deaths . . . . .	8 25
Luther Pastec, return of births and deaths . . . . .	1 75
John Ferguson, return of births and deaths . . . . .	24 50
James Sullivan, return of births and deaths . . . . .	66 25



Paid L. M. French, return of births and deaths . . . . .	\$11 00
J. L. Robinson, return of births and deaths . . . . .	6 25
J. A. Barker, care of boiler at city library . . . . .	121 00
J. N. Baker, care of clocks . . . . .	35 00
C. H. Robie, concreting . . . . .	266 50
J. F. James, perambulating town lines . . . . .	59 28
T. A. Lane, setting stand-pipes, pipe, etc. . . . .	291 15
Charles E. Cochran, profes- sional services . . . . .	14 26
James S. Bachelor, plumbing, etc. . . . .	27 43
F. O. Dewey & Sons, globes, etc. . . . .	41 50
Daniels & Co., hardware . . . . .	25 12
J. B. Varick, hardware . . . . .	23 67
Thorp & Avery, furnace, etc. . . . .	429 66
Hutchinson Bros., land damage . . . . .	321 15
Hutchinson Bros., iron-work . . . . .	14 47
Brock & Driscoll, tin dippers, etc. . . . .	1 00
A. H. Lovell, castings . . . . .	15 54
S. C. Forsaith & Co., kindling wood . . . . .	1 15
Pike & Heald, plumbing, etc. . . . .	14 68
James Briggs, plumbing . . . . .	1 50
Fellows & Co., blacksmithing . . . . .	1 55
R. W. Flanders, " . . . . .	4 75
Manning & Houghton, repair- ing water-troughs . . . . .	3 20

Paid C. H. Simpson, teams . . .	\$340 00
James Bros., " . . .	158 25
J. C. Nichols & Son, " . . .	60 00
Cavanaugh Bros., " . . .	129 75
E. T. James, " . . .	84 00
C. C. Perry, " . . .	71 00
George W. Reed, " . . .	6 00
H. E. Slack, " . . .	6 00
J. F. Fox & Co., " . . .	2 00
George L. Huntoon, " . . .	30 00
Wm. J. Freeman, " . . .	10 00
George W. Reed, " . . .	17 00
Joseph A. Brown, " . . .	20 00
Wm. Treadway, dating-stamp	9 30
Warren Harvey, stone-work .	1,032 50
William Landry, stone-work .	534 75
A. Bodwell & Son, stone .	300 00
Charles A. Bailey, stone .	187 00
Pettee & Adams, lime . . .	3 60
Carpenter & Pippin, mason- work . . . . .	21 29
B. W. Robinson, mason-work .	4 25
Timothy Sullivan, burying nuisances . . . . .	3 00
W. H. Bennett, assistant city engineer . . . . .	436 00
H. W. Horne, rodman for engineer . . . . .	350 50
W. D. Hunter, rodman for engineer . . . . .	332 00
George H. Allen, repairs of instruments, etc. . . . .	55 38
Judith Sherer, matron at pest- house . . . . .	360 00

Paid William R. Patten, witness fees, etc. . . . .	\$107 93
Manchester Gas Co., gas . . . . .	64 02
Concord Railroad, freight . . . . .	61 00
E. P. Johnson & Co., wood and coal . . . . .	9 35
C. H. Reed, services in claim cases . . . . .	173 00
W. H. Maxwell . . . . .	15 00
N. P. Kidder, making return of births, marriages and deaths, etc. . . . .	508 80
E. J. Williams, repairing slate on roofs . . . . .	9 50
J. C. Young, repairing slate on roofs . . . . .	5 15
George W. Cheney, expenses to Boston for committee . . . . .	5 00
T. W. Lane, General Laws, etc. . . . .	5 50
J. A. Brown, labor on Nutt road . . . . .	418 76
I. Blake, cleaning vaults . . . . .	9 00
William Treadway, repairing dating stamp . . . . .	1 50
A. F. Stevens, professional services . . . . .	141 00
T. A. Barker, entertainment of Gov. Butler, Gov. Hale, and party . . . . .	250 00
F. S. Worthen, repairing barrels for excavator . . . . .	18 00
J. M. Nutt, gravel for Nutt road . . . . .	52 30
M. V. B. Edgerly, land . . . . .	2,025 00
Amoskeag Manufacturing Co., cotton ties . . . . .	27 08

Paid Barton & Co., oil-cloth . . . .	\$22 75
T. A. Barker, dinner for visit- ing committees from Lowell and Lawrence . . . . .	50 00
Walter M. Parker, illegal tax paid in 1882 . . . . .	72 29
Charles E. Balch, illegal tax paid in 1882 . . . . .	143 00
L. Searles, burying nuisances . . . .	13 50
George Porter, land . . . . .	150 00
Weston & Hill, matting . . . . .	2 64
Clough & Clark, professional services . . . . .	2 00
H. D. Gordon, chestnut table . . . . .	3 00
George Thompson, trees . . . . .	78 10
J. J. Bennett, mason-work . . . . .	64 84
Adams & Lamprey, brooms for pest-house . . . . .	1 40
G. F. Boshier & Co., profes- sional services . . . . .	13 25
D. C. Whittemore, allowance on highway . . . . .	20 00
F. O. Dewey & Son, street globes . . . . .	36 50
Wm. W. Ireland, plan for barn at city farm, etc. . . . .	22 00
L. M. French, professional ser- vices . . . . .	10 00
James Baldwin & Co., sawdust . . . . .	40
George E. Morrill, use of team . . . . .	35 00
P. W. Follansbee & Son, mov- ing battery building . . . . .	100 00
E. J. Williams, tar roofing . . . . .	116 35
D. W. King, recording deeds . . . . .	1 33

Paid Sampson, Davenport, & Co., directories . . . . .	\$6 00
Belknap & Co., dating-stamp .	15 15
Drake & Carpenter, lime and cement . . . . .	16 80
Celinda Germain, washing school-houses . . . . .	32 70
Weston & Hill, cotton . . . . .	10 07
D. P. Brooks & Co., ink . . . . .	75
George A. Ramsdell . . . . .	15 00
Estes & Lauriat . . . . .	16 00
George A. Alger, illegal tax .	4 23
J. M. Crawford, clerical services	25 00
G. A. R., armory rent . . . . .	100 00
D. R. Prescott, witness fees, etc.	13 92
Adams & Lamprey, oil-can . . . . .	1 75
Granite State Telephone Co. . .	10 00
James Sullivan, professional services . . . . .	16 50
J. J. Garmon, setting up guide boards . . . . .	6 50
George E. Morrill, use of team	9 00
James A. Weston, illegal tax .	639 90
C. W. Stanley, illegal tax . . . . .	19 02
D. W. Lane, illegal tax . . . . .	36 02
W. H. Newhall, labor at Amos- keag Cemetery . . . . .	9 12
A. J. Lane . . . . .	3 00
N. P. Kidder, expressage . . . . .	4 30
Sampson, Davenport, & Co, directories . . . . .	7 00
S. B. Putnam, auditing collect- or's account . . . . .	25 00
A. G. Dole, land . . . . .	960 00

Paid Loammi Searles, burying nuisances . . . . .	\$10 00
H. P. Simpson, expenses to Boston and Concord . . . . .	10 00
George Thompson, trees . . . . .	67 00
William H. Maxwell . . . . .	10 00
Western Union Telegraph Co., telegrams . . . . .	54
Manchester post-office, stamps . . . . .	5 00
county commissioners . . . . .	23 60
A. N. Clapp, oil-barrels . . . . .	15 40
James Patten, expenses to Boston and Concord . . . . .	6 00
Abbot-Downing Co., watering-cart . . . . .	525 00
G. W. Varnum, distributing health notices . . . . .	17 50
Daniel Healy, whitewashing tree-boxes, etc. . . . .	51 89
H. P. Simpson, expenses to Portsmouth . . . . .	6 00
E. P. Johnson, expenses purchasing coal . . . . .	6 00
Dr. James Sullivan, professional services . . . . .	15 00
H. H. Sanderson, storing excavator . . . . .	3 00
Edwin Rogers, fire-alarm indicators, wire, etc. . . . .	1,359 30
F. D. Hanscom, land . . . . .	3,000 00
W. H. Newhall, moving fence, etc. . . . .	9 00
H. P. Simpson, expenses to Boston . . . . .	6 00

Paid E. P. Johnson, expenses to Boston . . . . .	\$6 00
F. J. Martin, illegal tax . . . . .	1 69
Louis Burgeois, illegal tax . . . . .	2 00
George E. Morrill, distributing tax bills . . . . .	48 50
Eddie M. Carr, cleaning vaults . . . . .	3 00
J. T. Fanning, professional ser- vices . . . . .	270 00
H. B. Putnam, allowance for horse-hire and incidental ex- penses . . . . .	132 00
Dr. J. M. Collity, professional services . . . . .	115 00
D. W. King, recording deed . . . . .	65
S. A. Riddle, searching town records . . . . .	5 00
S. B. Putnam, expenses to Con- cord . . . . .	1 50
Nathaniel Baker . . . . .	5 00
Elliott Manufacturing Co., house numbers . . . . .	16 50
Concord Railroad, freight . . . . .	60
Head & Dowst, lumber . . . . .	3 33
D. K. White, milk inspector's instruments . . . . .	16 16
Brigg & Huse, professional ser- vices . . . . .	25 00
for labor of men and teams . . . . .	1,214 66
By balance on hand . . . . .	1,662 21
	<hr/> \$35,118 11

## PINE GROVE CEMETERY.

		DR.
To balance from old account . . .	\$846 19	
appropriation . . . . .	5,000 00	
J. F. James, lots sold . . . .	2,408 04	
J. F. James, digging graves and grading lots . . . . .	345 46	
	<hr/>	\$8,599 69
		CR.
Paid B. A. Stearns, superintendent	\$727 00	
Oliver Mitchell, loam . . . .	159 50	
A. H. Lowell, iron-work . . . .	19 27	
J. Hodge, lumber . . . . .	25 43	
Daniels & Co., hardware . . . .	91 89	
Temple & Farrington, record book, stationery, etc. . . . .	44 71	
Livingston & Kimball, printing .	19 00	
L. A. Dickey, blacksmithing . . .	12 30	
Milo Smith, lot . . . . .	26 00	
J. F. James, treasurer, and sta- tionery . . . . .	26 15	
G. A. Smith & W. H. Tyler . . . .	26 00	
G. F. Bosher & Co., plants . . . .	8 00	
Lamson & Marden, land-marks . .	245 00	
F. N. McLaren, harness and coffin straps . . . . .	32 55	
E. P. Johnson & Co., coal . . . .	7 50	
J. T. Beach, horse-cart . . . . .	100 00	
T. A. Lane, iron pipe, etc. . . . .	5 02	
Pike & Heald, hardware, etc. . . .	25 06	
William S. Locke, land . . . . .	925 00	
for labor of men and teams . . . .	1,759 11	
By balance to new account . . . .	4,315 20	
	<hr/>	\$8,599 69



## VALLEY CEMETERY.

		DR.
To balance from old account . . .	\$14 00	
appropriation . . . . .	2,000 00	
H. R. Pettee, water, digging graves, etc. . . . .	549 00	
balance overdrawn . . . . .	2,638 84	
	<hr/>	\$5,201 84
		CR.
Paid F. B. Balch, superintendent . .	\$598 53	
S. B. Duke, labor . . . . .	207 50	
J. B. Varick, hardware, etc. . . .	9 94	
Manchester Water-works, water . .	128 80	
A. H. Lowell, iron fence . . . . .	3,155 02	
Jas. M. Nutt, paving-stone, etc. . .	38 00	
J. S. Harriman, loam . . . . .	23 00	
H. L. Bartlett, receipt-book . . .	2 50	
Marsh & Co., labor . . . . .	150 00	
Varnum & Co., labor . . . . .	45 95	
Jas. S. Bacheler, iron pipe, etc. . .	36 00	
Thorp & Avery, sprinkler . . . . .	3 90	
C. C. Webster, turf . . . . .	66 15	
Warren Harvey, stone-work, etc . .	731 22	
J. Hodge, lumber . . . . .	1 83	
Ezra W. Kimball, coffin straps . . .	3 50	
	<hr/>	\$5,201 84

## FIRE DEPARTMENT.

		DR.
To appropriation . . . . .	\$18,000 00	
old hose sold . . . . .	6 00	
J. B. Varick, overdraft . . . . .	1 94	
W. A. Brown . . . . .	133 03	
	<hr/>	\$18,140 97

AMOSKEAG STEAM FIRE ENGINE CO. NO. 1.		CR.
Paid Manchester Gas Co., gas . . .	\$60 12	
George W. Butterfield, driver . . .	216 50	
Manchester Locomotive-works, repairing hose couplings . . .	6 50	
Daniels & Co., hardware . . .	4 61	
Geo. H. Stearns, matches . . .	50	
Ed. N. Fogg, illuminator . . .	42	
J. T. Underhill, wood . . .	15 16	
Boston Belting Co., hose . . .	16 00	
C. H. Hodgman, trucking and freight . . . . .	50	
A. H. Lowell, castings . . .	3 76	
D. S. Ames, harness . . .	112 00	
Company's bill for services . . .	1,135 00	
	<hr/>	\$1,571 07

N. S. BEAN STEAM FIRE ENGINE CO. NO. 4.		CR.
Paid Manchester Gas Co., gas . . .	\$73 44	
Jeremiah Lane, driver . . .	216 50	
Sylvester Cate, sub-driver . . .	10 00	
Daniels & Co., hardware . . .	2 27	
George H. Stearns, matches, oil, soap, etc. . . . .	2 64	
E. W. Kimball, repairing har- ness . . . . .	2 50	
D. S. Ames, whip . . .	2 25	
Ed. N. Fogg, duster . . .	2 50	
J. T. Underhill, wood . . .	15 15	
pay-roll of Company . . .	1,135 00	
	<hr/>	\$1,462 25

## PENNACOOK HOSE Co. No. 1.

CR.

Paid Manchester Gas Co., gas . . .	\$74 16	
Walter L. Blenus, driver . . .	655 50	
Geo. H. Seaward, sub-driver . . .	10 00	
Manchester Locomotive-works, repairing hose-carriage . . .	14 00	
Daniels & Co., hardware . . .	6 27	
George H. Stearns, lantern, matches, and oil . . .	2 75	
Manchester One Price Clothing Co., reefers . . . . .	51 00	
E. P. Johnson, wood . . . . .	4 50	
Thomas Dunlap, clock . . . . .	4 88	
William C. Rogers, vise . . . . .	6 00	
D. A. Simons . . . . .	5 22	
pay-roll of Company . . . . .	1,538 75	
	<hr/>	\$2,373 03

## MASSABESIC HOSE Co. No. 2.

CR.

Paid Manchester Gas Company . . .	\$37 44	
Walter Seaward, driver . . . . .	110 00	
Manchester Locomotive-works, hose-carriage . . . . .	700 00	
J. B. McCrillis & Son, iron- work . . . . .	7 25	
D. S. Ames, whip . . . . .	2 25	
Moore & Preston, coal . . . . .	16 00	
Geo. C. Lord, matches, soap, etc.	2 18	
Daniels & Co., carriage-jack . . .	1 50	
pay-roll of Company . . . . .	995 00	
	<hr/>	\$1,871 62

## E. W. HARRINGTON HOSE CO. No. 3.

		CR.
Paid Manchester Gas Co., gas . . . . .	\$37 80	
John T. O'Dowd, driver . . . . .	240 25	
Manchester Locomotive-works, sink-block, springs, etc. . . . .	11 72	
Wm. C. Rogers, hardware . . . . .	2 08	
Daniels & Co., hardware . . . . .	2 50	
J. B. Varick, varnish brush, etc. . . . .	3 88	
J. B. McCrillis & Son, paint- ing, etc. . . . .	3 50	
H. C. Ranno, repairing harness . . . . .	4 30	
Manchester One Price Clothing Co., reefers. . . . .	102 00	
E. P. Johnson, coal . . . . .	29 60	
H. Fradd & Co., matches, brooms, etc. . . . .	3 96	
D. F. Cressey, repairing chairs, etc. . . . .	4 15	
A. C. Wallace, wood . . . . .	2 00	
Sanborn Carriage Co., repair- ing chairs, etc. . . . .	2 00	
Tristram Berry, repairing chairs, etc. . . . .	2 62	
pay-roll of Company . . . . .	995 00	
	<hr/>	\$1,447 36

## MERRIMACK HOSE CO. No. 4.

		CR.
Paid Manchester Gas Co., gas . . . . .	\$9 72	
Charles Rogers, driver . . . . .	40 00	
Manchester Locomotive-works, hose-carriage . . . . .	700 00	

Paid Pike & Heald, brooms, pails, etc. . . . .	\$2 82	
Wm. H. Vickery, keys, etc. . .	1 45	
Daniels & Co., hardware . . .	9 23	
T. A. Lane, hose, etc. . . . .	10 60	
Samuel Eastman & Co., noz- zles, spanners, etc. . . . .	71 00	
E. W. Kimball, belts . . . . .	13 75	
Manchester One-Price Clothing Co., blanket . . . . .	6 00	
Cumner & Co., reefers . . . . .	126 00	
Plumer, Holton, & Co., overalls	18 00	
Edward N. Fogg, cuspidores. duster, etc. . . . .	8 25	
Amoskeag Manufacturing Co., hydrant wrenches . . . . .	8 00	
E. P. Johnson & Co., wood . . .	6 00	
Temple & Farrington, shades, fixtures, etc. . . . .	5 41	
Thomas Dunlap, clock . . . . .	4 87	
American Steam Gauge Co., nozzles . . . . .	17 50	
T. W. Lane, record-book and stationery . . . . .	2 65	
pay-roll of Company . . . . .	497 50	
	<hr/>	\$1,559 25

## EXCELSIOR HOOK AND LADDER CO. NO. 1.

CR.

Paid Manchester Gas Co., gas . . .	\$61 92
Charles N. Denyou, driver . . . . .	219 00
Sylvester Cate, sub-driver . . . . .	15 00
J. B. Nourse, sub-driver . . . . .	5 00

Paid Daniels & Co., hardware . . . . .	\$7 67	
Geo. H. Stearns, oil and soap . . . . .	39	
S. F. Adams, moving ladders . . . . .	5 50	
E. P. Johnson, wood . . . . .	4 50	
Sanborn Carriage Co., repair- ing truck . . . . .	6 00	
James R. Carr, paint and labor . . . . .	2 50	
Manchester Locomotive-works . . . . .	12 00	
pay-roll of Company . . . . .	1,930 00	
	<hr/>	\$2,269 48

ENGINEERS' DEPARTMENT AND MISCELLANEOUS.

		CR.
Paid Manchester Water-works, water . . . . .	\$761 82	
Manchester Locomotive-works, hose-pipe stick, etc. . . . .	13 00	
William C. Rogers, hardware . . . . .	4 40	
Daniels & Co , " . . . . .	10 62	
T. A. Lane, plumbing . . . . .	1 71	
Stephen Gardner, care of en- gine-house boiler . . . . .	188 75	
J. B. McCrillis & Son, repair- ing supply-wagon . . . . .	3 48	
Samuel Eastman & Co., hose . . . . .	1,810 45	
Edward N. Fogg, lamp . . . . .	35	
Concord Railroad, freight . . . . .	1 08	
L. B. Bodwell & Co., coal . . . . .	65 05	
J. B. Clarke, printing . . . . .	41 30	
Temple & Farrington, molding, cord, etc. . . . .	4 85	
E. P. Johnson, coal . . . . .	210 32	
J. P. Scollay & Co., polish, oil, etc. . . . .	3 05	

Paid W. A. Wood & Co., oil, . . . .	\$49 63
American Fire Hose Co., hose, etc. . . . .	450 00
A. C. Wallace, lumber . . . .	8 55
George A. Davis, oiling and repairing hose . . . . .	22 50
George R. Simmons, labor on Fire King . . . . .	2 50
Charles Griffin, clearing snow from hydrants . . . . .	9 45
T. C. Dame, clearing snow from hydrants . . . . .	3 00
Dennis Sullivan, driving sup- ply-wagon . . . . .	60 50
D. A. Simons . . . . .	20 00
Pike & Heald . . . . .	51 61
T. A. Lane . . . . .	2 14
E. W. Kimball . . . . .	5 10
T. W. Lane, chief engineer . . .	300 00
T. W. Lane, stationery . . . .	16 85
A. C. Wallace, assistant en- gineer . . . . .	100 00
O. E. Kimball, assistant en- gineer . . . . .	100 00
B. C. Kendall, assistant en- gineer and clerk . . . . .	125 00
J. F. Pherson, assistant en- gineer . . . . .	100 00
	<hr/>
	\$4,552 06

## RECAPITULATION.

Paid Amoskeag S. F. E. Co. No. 1	\$1,571 07
N. S. Bean, S. F. E. Co. No. 2	1,462 25
Pennacook Hose Co. No. 1	2,373 03
Massabesic Hose Co. No. 2	1,871 62
E. W. Harrington Hose Co.	
No. 3	1,447 36
Merrimack Hose Co. No. 4	1,559 25
Excelsior Hook and Ladder	
No. 1	2,269 48
Engineers' department and	
miscellaneous	4,552 06
reserved fund	1,034 85
	<hr/> \$18,140 97

## FIRE-ALARM TELEGRAPH.

		DR.
To appropriation	\$1,000 00	
Worcester & Nashua Railroad,		
overdraft	66	
Thorp & Avery, overdraft	19 64	
	<hr/>	\$1,020 30
		CR.
Paid Tristam Berry, superintendent	\$300 00	
Tristam Berry, extra services	6 50	
J. T. Garland, stone	7 20	
William T. Smith, blue vitriol	70 33	
Warren Harvey, chestnut poles	26 25	
Edwin Rogers, fire-alarm box,		
etc.	241 44	
Welch & Culliney, iron-work	5 50	
Manchester Gas Co., gas	72	



Paid Peter Ducharme, strap . . .	\$1 50
T. A. Lane, plumbing . . .	3 25
C. B. Littlefield, chemicals . . .	3 41
L. A. Dickey, blacksmithing . . .	9 50
Charles Williams, Kerite wire . . .	9 00
Pike & Heald, solder . . .	3 17
J. B. Clarke, printing . . .	75
A. H. Lowell, zincs . . .	142 40
Charles L. Bly . . .	8 50
William C. Rogers, hardware . . .	7 82
Daniels & Co., hardware . . .	1 67
A. C. Wallace, lumber . . .	4 15
A. B. Cushing, trucking . . .	12 00
C. H. Hodgman & Co., truck- ing, etc. . . . .	2 88
Dennis Sullivan, trucking . . .	3 25
J. C. Snow, trucking . . .	1 75
Charles Lougee, labor . . .	15 00
George A. Davis, labor . . .	7 50
Charles P. Herbert, labor . . .	3 50
H. B. Porter, labor . . .	1 13
Tristram Dame, labor . . .	1 87
Concord Railroad, freight . . .	3 64
Worcester & Nashua Rail- road, freight . . . . .	66
T. W. Lane, use of teams . . .	8 50
James Brothers, teams . . .	12 50
B. C. Kendall, labor . . .	12 50
Balance on hand . . . . .	80 56
	<hr/> \$1,020 30

## HYDRANT SERVICE.

		DR.
To appropriation . . . . .	\$20,000 00	
balance overdrawn . . . . .	700 00	
	<u>          </u>	\$20,700 00
		CR.
Paid Manchester Water-works, water	\$20,700 00	
	<u>          </u>	\$20,700 00

## RESERVOIR.

		DR.
To balance on hand . . . . .	\$43 06	
	<u>          </u>	\$43 06
		CR.
Paid W. C. Rogers, hardware . . . . .	\$0 82	
Tristram Berry, labor . . . . .	1 00	
By balance to new account . . . . .	41 24	
	<u>          </u>	\$43 06

## POLICE DEPARTMENT.

		DR.
To balance from old account . . . . .	\$2,252 15	
appropriation . . . . .	13,000 00	
J. C. Bickford, costs . . . . .	1,127 47	
M. J. Jenkins, fines . . . . .	4,622 31	
Florence Sullivan, overdraft . . . . .	22 00	
Western Union Telegraph Co., overdraft . . . . .	2 23	
Smith & Bly, overdraft . . . . .	50	
balance overdrawn . . . . .	2,554 02	
	<u>          </u>	\$23,580 68

CR.

Paid N. P. Hunt, judge . . . . .	\$1,500 00
I. L. Heath, associate justice . . . . .	44 00
J. C. Bickford, clerk . . . . .	601 00
H. W. Longa, marshal . . . . .	23 80
M. J. Jenkins, marshal . . . . .	1,256 71
Eben Carr, assistant marshal . . . . .	683 90
Edgar Farrar, captain night watch . . . . .	852 76
Eben Carr, night watch . . . . .	35 00
Hiram Stearns, " . . . . .	755 00
J. F. Cassidy, " . . . . .	776 00
James Bucklin, " . . . . .	758 00
Thomas Frain, " . . . . .	833 00
Ira P. Fellows, " . . . . .	823 00
Wm. H. Newhall, " . . . . .	625 00
J. F. Dunn, " . . . . .	778 00
Lafayette Tebbetts, " . . . . .	761 00
Francis Bourrassau, " . . . . .	764 00
Gideon Rochette, " . . . . .	452 00
Philip Reischer, " . . . . .	763 00
C. H. Reed, " . . . . .	705 00
Charles S. Brown, " . . . . .	729 00
Leroy M. Streeter, " . . . . .	763 00
Jeremiah Murphy, " . . . . .	804 00
Michael Fox, " . . . . .	758 00
Henry Harmon, " . . . . .	755 00
Michael Marr, " . . . . .	464 00
John C. Colburn, day police . . . . .	749 00
R. W. Bean, " . . . . .	752 00
Geo. W. Minard, special police . . . . .	243 00
Timothy P. Shea, " . . . . .	757 00
B. N. Wilson, " . . . . .	449 00
Hosea Twombly, " . . . . .	126 00

Paid B. W. Stearns, special police	\$5 00
George W. Varnum, “	3 00
E. G. Woodman, “	13 00
Samuel L. Mitchell, “	108 00
C. F. Hoyt, “	7 00
M. L. Brown, “	1 00
L. Searles, “	5 00
N. J. Tuck, “	255 00
Jules Faucher, “	81 00
Wm. Stevens, “	6 00
Abraham Rowell, “	7 00
E. A. G. Holmes, “	5 00
D. E. Harriman, “	12 00
Charles D. Wells, “	15 00
S. P. Chase, “	11 00
Wm. Hill, “	11 00
Nahum Ward, “	38 00
C. D. Emerson, “	5 00
J. H. Terrill, “	27 00
H. C. Sleeper, “	4 00
D. C. Jackson, “	20 00
L. M. Connor, “	39 00
T. P. Heath, “	6 00
G. W. Goodwin, “	4 00
P. H. Riley, “	18 00
W. E. Westover, “	5 00
C. W. Arnold, “	14 00
Timothy Connor, “	4 00
R. A. Challis, “	2 00
George Howard, “	4 00
S. D. Smith, “	7 00
Florence Sullivan, “	218 00
A. B. Page, “	4 00
Alcide Helie, “	14 00

Paid W. H. Emery, special police	\$8 00
F. H. Bolton, "	6 00
H. C. Sleeper, "	10 00
J. H. Proctor, "	6 00
Edward Wyman, "	8 00
R. McFarland, "	6 00
A. Felch, "	1 00
H. H. Philbrick, "	4 00
George W. Paige, "	6 00
H. Cunningham, "	4 00
J. K. Rhodes, "	22 00
D. K. White, "	8 00
J. E. Bailey, "	205 00
C. B. Hildreth, professional services . . . . .	30 00
Jos. W. Fellows, special justice	2 12
C. A. Sulloway, professional services . . . . .	2 00
J. P. Bartlett, professional services . . . . .	10 00
E. F. Jones, professional services . . . . .	4 00
John Foster, professional services . . . . .	2 00
Manchester Gas Co., gas .	381 96
Granite State Telephone Co. .	99 00
James Bros., teams . . . . .	3 50
H. E. Slack, teams . . . . .	3 50
C. H. Simpson, teams . . . . .	29 25
E. T. James, teams . . . . .	47 25
J. F. Moore, team . . . . .	2 00
Daniel Davis, meals for prisoners . . . . .	225 30
Mrs. J. Clement . . . . .	2 00

Paid Challis & Campbell, printing .	\$63 10
Campbell & Williams, printing	8 75
John B. Clarke, printing . . . .	49 37
H. H. Everett, printing . . . .	5 50
Temple & Farrington, blank- books, etc. . . . .	9 66
T. W. Lane, blank-books, etc.	33 40
W. P. Coburn, stationery . . . .	3 00
George C. Hoitt, binding dock- ets, etc. . . . .	2 75
Western Union Telegraph Co., telegrams . . . . .	29 97
G. W. Bourne, professional services . . . . .	5 00
Edward N. Fogg . . . . .	5 55
James Briggs . . . . .	1 50
M. J. Jenkins . . . . .	32 99
R. J. P. Goodwin, professional services . . . . .	1 50
William H. Vickery, repairing badges . . . . .	50
Smith & Bly, crackers . . . . .	16 00
C. H. Wood, lettering lanterns	1 20
Daniels & Co., lanterns . . . .	7 74
Geo. H. Stearns, oil-can and oil	90
Weston & Hill, blankets . . . .	18 00
Stephen Derry . . . . .	4 00
A. H. Paige, badges . . . . .	8 75
D. Evans & Co., coat buttons . .	12 50
Manchester Steam Laundry, washing blankets . . . . .	4 00
	<hr/> \$23,580 63

## CITY HALL.

		DR.
To appropriation . . . . .	\$2,000 00	
rents . . . . .	2,100 75	
City Library, coal . . . . .	267 20	
reserved fund, amount trans- ferred . . . . .	2,000 00	
balance overdrawn . . . . .	1,318 33	
	<hr/>	\$7,686 28
		CR.
Paid Manchester Gas Co., gas . . . . .	\$185 94	
Manchester Water-works, water	1,901 20	
Temple & Farrington, wall- paper, etc. . . . .	33 13	
Celinda Germain, scrubbing floors . . . . .	130 80	
Weston & Hill, rope matting, etc	88 53	
Barton & Co., carpeting, etc. . . . .	81 10	
W. H. Vickery, keys . . . . .	2 10	
W. W. Hubbard, lumber . . . . .	122 70	
J. Hodge, lumber . . . . .	24 50	
Head & Dowst, lumber . . . . .	132 34	
George H. Dudley, carpenter- work, etc. . . . .	298 10	
Tristram Berry, carpenter-work	3 75	
Walter Neal, carpenter-work . . . . .	13 90	
Geo. Holbrook, carpenter-work, etc. . . . .	13 15	
L. M. Aldrich, carpenter-work, etc. . . . .	27 78	
H. D. Gordon, furniture . . . . .	97 61	
Higgins Bros., rep. furniture . . . . .	3 65	
D. A. Simons, towel-rack . . . . .	25	

Paid J. B. Souther & Co., desks . . .	\$27 00
James S. Bachelier, gas fittings, etc. . . . .	77 75
T. A. Lane, gas fittings, etc. . . .	15 15
Pike & Heald, gas-regulator, plumbing, etc. . . . .	143 06
Hutchinson Bros., plumbing . . . .	11 00
Daniels & Co., hardware . . . . .	31 13
J. B. Varick, hardware . . . . .	9 71
A. H. Lowell, iron castings, etc. . .	20 76
J. Bryson, Jr., painting . . . . .	60 13
James R. Carr, painting . . . . .	17 30
C. H. Wood, painting and graining . . . . .	173 47
J. J. Abbott, paper hanging, etc. . .	59 54
Granite State Telephone Co. . . . .	66 75
George H. Stearns, brooms, matches, etc. . . . .	10 37
Bennett & Lord, plastering, etc. . .	152 80
A. Reed, plastering . . . . .	11 70
Ed. N. Fogg, cuspidores, etc. . . .	4 98
E. P. Johnson & Co. coal . . . . .	165 44
L. B. Bodwell & Co., wood . . . . .	3 88
Rowell & Burns, wood . . . . .	2 78
J. Albert Walker, coal . . . . .	2,643 91
Concord Railroad, freight . . . . .	505 05
C. W. Butler, wall-paper, etc. . . .	30 00
Mrs. M. P. Barker, making awning . . . . .	4 50
Pettee & Adams, cement . . . . .	1 75
W. H. Davis, maps . . . . .	3 00
J. S. Holt & Co., soap . . . . .	8 50
J. L. Wentworth, cleaning car- pets, etc. . . . .	4 75



Paid Clark M. Bailey, paper . . .	\$1 12	
• A. A. Moore, repairing light- ning-rods . . . . .	27 00	
Otis Whitten, labor . . . . .	7 00	
J. Stickney, rubber tubing . . . . .	99	
H. J. Clark, trucking coal . . . . .	200 00	
Trefethen & Moore, repairing clock . . . . .	1 00	
Gideon Flanders, ice . . . . .	10 75	
P. C. Cheney Co., paper . . . . .	7 40	
T. L. Thorpe, paper . . . . .	4 33	
	<hr/>	\$7,686 28

PRINTING AND STATIONERY.

		DR.
To appropriation . . . . .	\$1,500 00	
	<hr/>	\$1,500 00
		CR.
Paid John B. Clarke . . . . .	\$883 89	
Campbell and Williams . . . . .	7 00	
Challis & Campbell . . . . .	45 12	
H. H. Everett . . . . .	36 50	
Kendall & Ladd . . . . .	2 25	
Novelty Advertising Co. . . . .	2 50	
T. H. Tuson . . . . .	3 00	
Manchester post-office . . . . .	81 32	
Temple & Farrington . . . . .	8 88	
J. F. Gillis . . . . .	50	
T. W. Lane . . . . .	11 78	
A. Cook . . . . .	2 00	
Livingston & Kimball . . . . .	4 00	
reserved fund, amount trans- ferred . . . . .	411 26	
	<hr/>	\$1,500 00

## REPAIRS OF BUILDINGS.

		DR.
To appropriation . . . . .	\$1,800 00	
reserved fund, amount trans- ferred . . . . .	995 07	
	—————	\$2,795 07
		CR.
Paid A. J. Sawyer, lumber . . . . .	\$4 82	
A. C. Wallace, " . . . . .	142 97	
Austin, Johnson, & Co., lumber . . . . .	39 15	
J. Hodge, lumber . . . . .	25 93	
Head & Dowst, lumber and labor . . . . .	660 45	
J. F. Seaward, lumber . . . . .	3 37	
G. H. Dudley, lumber and labor . . . . .	19 45	
Tristram Berry, labor . . . . .	15 00	
George Holbrook, lumber and labor . . . . .	97 91	
E. A. G. Holmes, labor . . . . .	136 00	
Geo. W. Rief, lumber and labor . . . . .	553 65	
L. M. Aldrich, labor . . . . .	2 82	
B. F. Fogg, plumbing, etc. . . . .	12 20	
Jas. S. Bacheler, plumbing, etc. . . . .	39 04	
T. A. Lane, plumbing, etc. . . . .	52 89	
Pike & Heald, plumbing, etc. . . . .	127 59	
Daniels & Co., hardware . . . . .	10 07	
Wm. C. Rogers, hardware . . . . .	11 50	
J. B. Varick, hardware . . . . .	34 68	
Carpenter & Pippin, mason- work . . . . .	4 50	
James Dolan, mason-work . . . . .	13 50	
C. H. Robinson, mason-work . . . . .	7 00	
B. W. Robinson, mason-work . . . . .	5 50	
Bennett & Lord, mason-work . . . . .	2 05	

Paid James R. Carr, painting . . .	\$95 63	
J. Bryson, Jr., painting . . .	67 94	
J. J. Abbott, painting . . .	12 00	
H. Stratton, plumbing, etc. . .	12 70	
G. R. Vance & Co. . . . .	11 34	
Pettee & Adams, cement . . .	14 00	
D. F. Cressey & Co., bolts, etc.	5 99	
Temple & Farrington, screens, etc. . . . .	4 07	
Wm. F. Starkweather, paper hanging . . . . .	3 00	
Goodwin Bros., lumber . . .	32 57	
Drake & Carpenter, cement . .	5 10	
J. C. Young & Co., repairing roof . . . . .	6 04	
Manchester Locomotive-works, grate castings . . . . .	37 10	
A. N. Clapp, hardware . . .	6 53	
S. R. Gayton, door-checks . . .	11 00	
A. H. Lowell, iron-work . . .	2 87	
R. D. Gay, roll paper, etc. . .	28 14	
for labor of men and teams . .	417 01	
	<hr/>	\$2,795 07

## CITY LIBRARY.

		DR.
To balance from old account . . .	\$218 79	
appropriation . . . . .	3,000 00	
	<hr/>	\$3,218 79
		CR.
Paid M. J. Buncher, librarian . .	\$633 56	
George W. Burleigh, assistant librarian . . . . .	234 75	

Paid Manchester Gas Co., gas . . . . .	\$266 23	
Temple & Farrington, rebinding books, etc. . . . .	281 45	
Livingston & Kimball, printing . . . . .	51 20	
Burns & Poore, wood, . . . . .	2 50	
E. P. Johnson, wood . . . . .	13 35	
L. B. Bodwell & Co., wood . . . . .	1 38	
T. A. Lane, gas fittings . . . . .	1 25	
Manchester Water-works, water . . . . .	21 00	
L. B. Clough, insurance . . . . .	94 15	
Daniels & Co., lock . . . . .	1 10	
John B. Clarke, printing . . . . .	11 00	
George Holbrook, labor . . . . .	3 00	
Trustees of City Library . . . . .	1,000 00	
N. P. Hunt, stationery, postage, etc. . . . .	12 37	
By City Hall for coal, amount transferred . . . . .	267 20	
balance to new account . . . . .	323 41	
	<hr/>	\$3,218 79

## MILITIA.

To appropriation . . . . .	\$800 00	DR.
	<hr/>	\$800 00
		CR.
Paid Amoskeag Veterans . . . . .	\$100 00	
Headquarters First Regt. N. G. . . . .	100 00	
Head Guards . . . . .	100 00	
Sheridan Guards . . . . .	100 00	
City Guards . . . . .	100 00	
First N. H. Battery . . . . .	100 00	
Manchester War Veterans . . . . .	100 00	
Manchester Cadets . . . . .	100 00	
	<hr/>	\$800 00

## PAYMENT OF FUNDED DEBT.

		DR.
To appropriation . . . . .	\$13,000 00	
	<u>                    </u>	\$13,000 00
		CR.
Paid Suncook Valley R. R. bonds .	\$5,000 00	
sewer bonds . . . . .	8,000 00	
	<u>                    </u>	\$13,000 00

## ABATEMENT OF TAXES.

		DR.
To appropriation . . . . .	\$2,500 00	
balance overdrawn . . . . .	823 71	
	<u>                    </u>	\$3,323 71
		CR.
Paid sundry persons . . . . .	\$3,323 71	
	<u>                    </u>	\$3,323 71

## DISCOUNT ON TAXES.

		DR.
To appropriation . . . . .	\$7,000 00	
balance overdrawn . . . . .	693 46	
	<u>                    </u>	\$7,693 46
		CR.
Paid George E. Morrill, collector .	\$7,693 46	
	<u>                    </u>	\$7,693 46

## STATE TAX.

		DR.
To appropriation . . . . .	\$41,060 00	
	<u>                    </u>	\$41,060 00
		CR.
Paid S. A. Carter, state treasurer .	\$41,060 00	
	<u>                    </u>	\$41,060 00

## COUNTY TAX.

To appropriation . . . . .	\$32,000 00	DR.
	<u>                    </u>	\$32,000 00
Paid county treasurer . . . . .	\$31,323 37	CR.
By reserved fund, amount trans- ferred . . . . .	676 63	
	<u>                    </u>	\$32,000 00

## OUTSTANDING TAXES.

List for 1874 . . . . .	\$4,203 95
1875 . . . . .	4,052 91
1876 . . . . .	2,987 24
1877 . . . . .	2,845 77
1878 . . . . .	3,047 43
1879 . . . . .	949 53
1880 . . . . .	1,256 19
1881 . . . . .	1,331 53
1882 . . . . .	1,171 56
	<u>                    </u>
	\$20,846 11

## TAXES FOR 1883.

To resident taxes . . . . .	\$331,579 12	DR.
non-resident taxes . . . . .	1,162 60	
	<u>                    </u>	\$332,741 72
By collections . . . . .	\$309,501 16	CR.
abatements . . . . .	1,779 08	
discounts . . . . .	7,693 46	
balance uncollected . . . . .	13,768 02	
	<u>                    </u>	\$332,741 72

## FIREMEN'S PARADE.

		DR.
To appropriation . . . . .	\$350 00	
	<u>          </u>	\$350 00
		CR.
Paid First Regiment Band . . . . .	\$53 00	
Cavanaugh Bros., teams . . . . .	50 00	
George Fletcher, caterer . . . . .	193 50	
Sheridan Guards Drum Corps . . . . .	13 00	
T. W. Lane, stationery, postage, etc. . . . .	5 95	
J. B. Clarke, printing . . . . .	11 75	
By balance on hand . . . . .	22 80	
	<u>          </u>	\$350 00

## DECORATION OF SOLDIERS' GRAVES.

		DR.
To appropriation . . . . .	\$200 00	
	<u>          </u>	\$200 00
		CR.
Paid Louis Bell Post No. 3, G. A. R. . . . .	\$200 00	
	<u>          </u>	\$200 00

## LAND.

		DR.
To appropriation . . . . .	\$10,000 00	
	<u>          </u>	\$10,000 00
		CR.
By reserved fund, am't transferred	\$10,000 00	
	<u>          </u>	\$10,000 00

## WOMEN'S AID HOSPITAL.

To appropriation . . . . .	\$400 00	DR.
	<u>          </u>	\$400 00
Paid Mrs. Aretas Blood, treasurer .	\$400 00	CR.
	<u>          </u>	\$400 00

## WATER-WORKS.

To balance from old account . . . . .	\$11,487 92	DR.
water rents . . . . .	73,458 20	
	<u>          </u>	\$84,946 12
By interest, amount transferred .	\$38,000 00	CR.
Paid Charles K. Walker, superintendent . . . . .	1,543 70	
A. E. Stearns, clerk . . . . .	1,150 00	
C. C. Cole, superintendent at pumping station . . . . .	700 00	
Head & Dowst, lumber . . . . .	5 12	
J. Hodge, " . . . . .	11 30	
D. J. Mahoney, " . . . . .	46 33	
J. H. Maynard, " . . . . .	23 25	
Union Pub. Co., printing, . . . . .	19 75	
John B. Clarke, " . . . . .	56 50	
T. H. Tuson, " . . . . .	47 05	
Temple & Farrington, stationery . . . . .	2 27	
Manchester Locomotive-works, sleeves, bolts, etc. . . . .	269 29	
S. C. Forsaith & Co., wood . . . . .	1 15	



Paid A. H. Lowell, boxes, etc. . . . .	8388 17
Hutchinson Bros., iron-work . . . . .	7 39
Pike & Heald, iron pipes, etc. . . . .	19 30
Thomas A. Lane, boiler, etc. . . . .	414 80
L. A. Dickey, blacksmithing . . . . .	53 03
John B. Varick, hardware . . . . .	181 00
Daniels & Co., hardware . . . . .	46 51
Concord Railroad, freight . . . . .	672 59
Boston, Lowell, & Concord Railroad, freight. . . . .	7 07
Rowell & Burns, coal and wood . . . . .	15 50
L. B. Bodwell & Co., coal . . . . .	59 73
Granite State Telephone Co. . . . .	42 50
George H. Stearns, oil, matches, etc. . . . .	19 13
Pettee & Adams, lime and ce- ment . . . . .	60 25
Joseph Goodwin, labor . . . . .	28 00
C. H. Hodgman & Co., truck- ing . . . . .	3 00
E. T. James, teams . . . . .	57 00
James Bros., teams . . . . .	4 00
Leonard & Ellis, machine oil . . . . .	37 50
National Meter Co., meters, etc. . . . .	457 68
Union Water-Meter Co., me- ters, etc. . . . .	810 85
Eddy Valve Co. . . . .	10 00
Mowry & Phillips, pig lead . . . . .	405 72
Stults & Mansur, nipples, etc. . . . .	152 26
R. Pattee & Co., hydrants . . . . .	372 99
George Woodman & Co., tarred pipe, etc.. . . . .	60 21
Waite, Williams, & Co., engine oil . . . . .	58 53

Paid J. S. Paine, furniture for office	\$62 25
Sewall & Day Cordage Co., jute packing, etc. . . . .	24 48
Sunner & Goodwin, En. pipe, etc. . . . .	769 32
Gloucester Iron-works, iron pipe . . . . .	4,023 79
Ludlow Valve Manufacturing Co., hub gates, etc. . . . .	461 25
Boston Machine Manufacturing Co., flange ball joints . . . . .	59 00
Boston Lead Manufacturing Co. lead . . . . .	49 89
Jarechi, Hayes & Co. stop-cocks	120 50
Albert Mallard, building aque- duct . . . . .	100 00
Straw & Lovejoy, repairing clock . . . . .	1 00
George Fletcher . . . . .	25 00
town of Auburn, taxes . . . . .	9 23
Hidden Brown, land . . . . .	125 00
Joseph E. Bennett, auditing accounts . . . . .	120 00
George C. Hoitt, binding day- book . . . . .	4 00
W. L. Roper, whitewashing walls of pumping-station . . . . .	4 00
A. Pollard, teaming . . . . .	5 40
McDougall Bros., wood . . . . .	9 00
Ward Hurley Corp., stops and bands . . . . .	168 88
Charles H. Robie, concreting . . . . .	29 17
Brock & Driscoll. galvanized pails, etc. . . . .	9 70

Paid J. J. Abbott, paint . . . . .	\$1 48	
A. M. Eastman, oil, matches, etc. . . . .	3 30	
J. Stickney, rubber mitts, leath- er, etc. . . . .	12 39	
William P. Newell, water com- missioner . . . . .	24 00	
Gilman Clough, timber . . . . .	2 54	
E. T. James, water commis- sioner . . . . .	27 00	
Henry N. Stone . . . . .	2 85	
for labor of men and teams . . . . .	5,876 26	
H. B. Putnam, water commis- sioner . . . . .	24 00	
E. H. Hobbs, water commis- sioner . . . . .	15 00	
Alpheus Gay, water commis- sioner . . . . .	24 00	
James A. Weston, water com- missioner and clerk . . . . .	74 00	
A. C. Wallace, water commis- sioner . . . . .	24 00	
balance to new account . . . . .	26,338 02	
	<u>          </u>	\$84,946 12

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CITY OFFICERS' SALARIES.

		DR.
To appropriation . . . . .	\$12,000 00	
	<u>          </u>	\$12,000 00
		CR.
Paid H. B. Putnam, mayor . . . . .	\$1,266 66	
N. P. Kidder, city clerk . . . . .	900 00	
S. B. Putnam, city treasurer . . . . .	1,000 00	
J. A. Barker, city messenger . . . . .	700 00	

Paid George H. Allen, city engineer	\$1,000 00
William R. Patten, city solicitor	250 00
George E. Morrill, tax collector	1,314 69
William E. Buck, superintendent of schools . . .	1,575 00
James A. Fracker, clerk common council . . . .	100 00
H. W. Powell, assessor . . .	120 00
C. S. Fisher, " . . .	237 50
J. H. Haynes, " . . .	205 00
C. H. Brown, " . . .	162 50
D. O. Furnald, " . . .	351 65
P. A. Devine, " . . .	132 50
Pius Brown, " . . .	107 50
George W. Weeks, assessor .	412 57
J. P. Moore, assistant assessor	186 50
M. Gilbert, " "	23 75
George H. Dudley, assistant assessor . . . .	42 50
R. P. Silver, assistant assessor	30 00
Isaac Whittemore, ,, .	45 00
Arthur Bertrand, assistant assessor . . . .	12 00
N. Nichols, clerk for assessors .	230 00
Robert Hall, overseer of the poor . . . . .	6 25
P. O. Woodman, overseer of the poor . . . . .	18 75
Daniel Sheehan, overseer of the poor . . . . .	25 00
J. E. Stearns, overseer of the poor . . . . .	25 00
James Sutcliffe, overseer of the poor . . . . .	25 00

Paid Horace Gordon, overseer of the poor . . . . .	\$25 00
William Weber, overseer of the poor . . . . .	25 00
E. G. Woodman, overseer of the poor . . . . .	25 00
H. B. Putnam, <i>ex-officio</i> over- seer of the poor . . . . .	25 00
William H. Maxwell, overseer of the poor . . . . .	25 00
William H. Maxwell, clerk of overseers of the poor . . . . .	50 00
Dr. James M. Collity, city physician . . . . .	150 00
D. H. Young, supervisor . . . . .	4 00
L. H. Lamprey, member of Board of Health . . . . .	25 00
H. D. Lord, clerk inspectors of check-lists . . . . .	140 00
J. C. Bickford, moderator . . . . .	3 00
T. W. Challis, " . . . . .	3 00
George Holbrook, " . . . . .	3 00
J. B. Straw, " . . . . .	3 00
F. W. Garland, ward clerk . . . . .	5 00
Charles A. Smith, " . . . . .	5 00
Abial W. Eastman, " . . . . .	5 00
E. A. McQueston, " . . . . .	5 30
H. E. Webster, " . . . . .	5 00
William H. Dixon, " . . . . .	2 50
Henry S. Perry, " . . . . .	5 00
Oscar F. Perkins, selectman . . . . .	5 00
Emerson Moulton, " . . . . .	5 00
George M. Bean, " . . . . .	5 00
George C. Kemp, " . . . . .	5 00

Paid George W. Bacon, selectman . . . . .	5 00
David Thayer, " . . . . .	10 00
J. T. Underhill, " . . . . .	5 00
Charles E. Ham, " . . . . .	10 00
George W. Bacon, " . . . . .	5 00
E. G. Woodman, " . . . . .	5 00
Charles F. Garland, " . . . . .	5 00
Zara B. Sawyer, " . . . . .	5 00
Edward N. Baker, " . . . . .	5 00
Benjamin F. Garland, " . . . . .	5 00
Emerson Moulton, " . . . . .	5 00
George E. Glines, " . . . . .	5 00
Henry S. Perry, " . . . . .	5 00
H. B. Putnam, <i>ex-officio</i> school committee . . . . .	10 00
F. T. E. Richardson, clerk of school committee . . . . .	100 00
F. T. E. Richardson, school committee . . . . .	10 00
P. H. Dow, school committee . . . . .	10 00
B. C. Dean, school committee . . . . .	10 00
William C. Clarke, school committee . . . . .	10 00
H. H. Huse, school committee . . . . .	10 00
N. P. Hunt, school committee . . . . .	10 00
J. T. Fanning, school com- mittee . . . . .	10 00
S. D. Lord, school committee . . . . .	10 00
Charles A. O'Connor, school committee . . . . .	10 00
T. F. Collins, school committee . . . . .	10 00
B. B. Weeks, school committee . . . . .	5 00
D. M. Goodwin, school com- mittee . . . . .	5 00

Paid J. J. Abbott, school committee	\$10 00
George D. Towne, school committee . . . . .	10 00
E. F. Jones, school committee	10 00
L. E. Phelps, school committee	10 00
Douglas Mitchell, school committee . . . . .	10 00
J. A. McCrillis, <i>ex-officio</i> school committee . . . . .	10 00
By balance on hand . . . . .	580 88
	<hr/> \$12,000 00

## RESERVED FUND.

		DR.
To appropriation . . . . .	\$10,000 00	
costs non-resident taxes . . . . .	9 00	
rent of tenements . . . . .	273 00	
show licenses . . . . .	250 00	
George F. Boshier & Co., old buildings sold . . . . .	164 25	
dog licenses . . . . .	490 83	
interest on taxes . . . . .	245 78	
paupers off farm . . . . .	2,000 00	
incidental expenses . . . . .	1,062 21	
fire department . . . . .	1,034 85	
printing and stationery . . . . .	411 26	
county tax . . . . .	676 63	
land . . . . .	10,000 00	
interest on land . . . . .	2,906 84	
	<hr/> \$30,124 65	

		CR.
By District No. 3 . . . . .	\$916 25	
Fourth of July celebration . . . . .	2,000 00	
new highways . . . . .	7,632 20	
Women's Aid Society hospital . . . . .	400 00	
watering streets . . . . .	1,950 47	
lighting streets . . . . .	1,594 15	
paving streets . . . . .	4,959 08	
macadamizing streets . . . . .	3,153 56	
commons . . . . .	718 65	
bridges . . . . .	1,874 29	
city hall . . . . .	2,000 00	
repairs of buildings . . . . .	995 07	
scavenger teams . . . . .	944 26	
balance on hand . . . . .	986 67	
	\$30,124 65	

### BAKERSVILLE SCHOOL-HOUSE.

		DR.
To balance from old account . . . . .	\$2,513 13	
appropriation . . . . .	5,000 00	
balance overdrawn . . . . .	4,998 49	
	\$12,511 62	

		CR.
Paid Natt & W. F. Head, brick . . . . .	\$2,017 45	
Head & Dowst, contractors . . . . .	8,559 76	
Concord Railroad, freight . . . . .	251 68	
George W. Stevens, architect . . . . .	275 00	
Lamson & Marden, stone-work . . . . .	19 07	
E. P. Johnson & Co., coal and express . . . . .	12 54	
H. C. Dickey loam . . . . .	16 50	



Paid Daniels & Co., hardware . . . . .	\$1 25	
J. B. Varick, shovels, etc. . . . .	13 78	
Pike & Heald, plumbing, etc. . . . .	42 22	
A. J. Sawyer, lumber . . . . .	44 94	
Standard School-Furniture Co., furniture . . . . .	534 88	
J. G. Jones, trucking . . . . .	1 50	
for labor of men and teams . . . . .	721 05	
	<u>          </u>	\$12,511 62

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TRUANT OFFICER.

		DR.
To appropriation . . . . .	\$700 00	
balance overdrawn . . . . .	112 50	
	<u>          </u>	\$812 50
		CR.
Paid Samuel Brooks . . . . .	\$627 50	
H. W. Longa . . . . .	185 00	
	<u>          </u>	\$812 50

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BATTERY BUILDING.

		DR.
To balance from old account . . . . .	\$994 63	
appropriation . . . . .	2,000 00	
balance overdrawn . . . . .	1,447 31	
	<u>          </u>	\$4,441 94
		CR.
Paid Alpheus Gay, contractor . . . . .	\$4,132 36	
Thorp & Avery, wire netting, etc. . . . .	9 75	

Paid James S. Bachelor, gas fixtures, etc. . . . .	\$99 40	
Merrill & Laird, mason-work . . . . .	25 43	
George W. Stevens, architect . . . . .	175 00	
	<u>          </u>	\$4,441 94

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INTEREST ON LAND.

		DR.
To balance from old account . . . . .	\$3,000 00	
appropriation . . . . .	3,000 00	
	<u>          </u>	\$6,000 00
		CR.
Paid Amoskeag Manufacturing Co , reserved fund, amount trans- ferred . . . . .	\$3,093 16 2,906 84	
	<u>          </u>	\$6,000 00

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SCAVENGER TEAMS.

		DR.
To appropriation . . . . .	\$3,000 00	
reserved fund, amount trans- ferred . . . . .	944 26	
	<u>          </u>	\$3,944 26
		CR.
Paid James Kearns, teamster . . . . .	\$468 00	
A. Morse, teamster . . . . .	261 50	
John O'Dowd, teamster . . . . .	54 75	
A. Gowing, teamster . . . . .	4 00	
Walter Seaward, teamster . . . . .	198 00	
city teams . . . . .	981 50	
for labor of men . . . . .	1,976 51	
	<u>          </u>	\$3,944 26

## REPAIRS OF SCHOOL-HOUSES.

		DR.
To appropriation . . . . .	\$3,537 86	
A. H. Lowell, old iron . . . . .	23 92	
Hutchinson Bros., old iron . . . . .	28 00	
fuel, amount transferred . . . . .	300 00	
	—————	\$3,889 78
		CR.
Paid A. C. Wallace, lumber . . . . .	\$15 30	
W. W. Hubbard, " . . . . .	52 50	
A. J. Sawyer, " . . . . .	47 29	
J. Hodge, " . . . . .	200 48	
George Holbrook, lumber and labor . . . . .	1,474 94	
D. H. Morgan, carpenter-work . . . . .	67 03	
James R. Carr, painting . . . . .	164 00	
Sullivan & Sloan, " . . . . .	100 00	
William B. Abbott " . . . . .	120 35	
Joel Daniels " . . . . .	40	
J. J. Abbott " . . . . .	309 33	
Manchester Locomotive-works, castings, etc. . . . .	12 70	
T. A. Lane, plumbing, etc. . . . .	128 17	
Pike & Heald, hardware, plumb- ing, etc. . . . .	211 84	
Carpenter & Pippin, mason- work . . . . .	127 60	
B. W. Robinson & Co., mason- work . . . . .	47 70	
B. W. Robinson, mason-work . . . . .	13 75	
Bennett & Lord, mason-work . . . . .	34 70	
O. D. Carpenter & Co., mason- work . . . . .	29 25	

Paid Daniels & Co., hardware . . . . .	\$0 90	
William C. Rogers, hardware . . . . .	51	
J. B. Varick, hardware . . . . .	18 89	
G. R. Vance & Co., galvanized iron, etc. . . . .	26 20	
A. H. Lowell, castings . . . . .	14 14	
J. C. Young, repairing roof . . . . .	13 65	
Albert A. Moore, repairing lightning-rods . . . . .	40 00	
Thorp & Avery, repairing stoves, etc. . . . .	18 10	
J. F. Woodbury & Co., fire- poker . . . . .	2 50	
Avery Bros., Russia pipe, etc.	21 83	
James S. Bachelor, plumbing . . . . .	2 32	
H. Stratton, plumbing . . . . .	2 35	
E. J. Williams, repairing roof	413 76	
James Watts . . . . .	1 50	
A. N. Clapp . . . . .	25	
H. C. Dickey . . . . .	2 00	
By balance on hand . . . . .	153 55	
	<hr/>	\$3,889 78

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FUEL.

To appropriation . . . . .	\$3,411 54	DR.
	<hr/>	\$3,411 54
Paid E. P. Johnson, coal and wood	\$217 28	CR.
Moore & Preston, “	492 41	
S. C. Forsaith & Co. “	2 00	
Burns & Poore, “	5 00	
Brown & Bolton, sawing wood	7 70	

Paid Brock & Driscoll, waste . . .	\$1 10	
S. D. Glidden, sawing wood . . .	35 87	
H. Webber, " . . .	4 67	
D. H. Morgan, " . . .	14 00	
A. N. Clapp, ax-handles . . .	30	
J. B. Varick, sieve . . .	1 00	
G. W. Varnum, sawing wood . . .	75	
District No. 10, getting in coal, etc. . . . .	9 00	
J. Hodge, wood . . . . .	2 75	
Lester C. Paige, sawing wood, etc. . . . .	8 00	
Larry Hearne, sawing wood . . .	5 62	
City Hall, coal . . . . .	1,402 80	
J. H. Proctor, sawing wood, etc.	10 00	
D. C. Smith, getting in wood . .	2 00	
A. E. Eastman . . . . .	3 50	
repairs of school-houses, amount transferred . . . . .	300 00	
contingent expenses, amount transferred . . . . .	725 00	
By balance on hand . . . . .	160 79	
	<hr/>	\$3,411 54

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FURNITURE AND SUPPLIES.

To appropriation . . . . .	\$1,630 38	DR.
	<hr/>	\$1,630 38
Paid H. D. Gordon, furniture . . .	\$24 25	CR.
Horace Gordon, cloth, fixtures, etc. . . . .	38 95	
Higgins Bros., furniture, etc. . .	13 32	

Paid D. A. Simons, dusters, etc. . . . .	\$22 50
C. W. Clark, desks, etc. . . . .	29 38
Avery Bros., copper tubes, etc. . . . .	3 95
Prang Educational Co., black-boards, etc. . . . .	90 31
Trefethen & Moore, clocks, . . . . .	9 00
Pike & Heald, door-mats, dip-pers, etc. . . . .	87 71
E. R. Coburn & Co., paper, ink, etc. . . . .	35 04
T. W. Lane, books, pencils, etc. . . . .	109 48
Temple & Farrington, books, pencils, etc. . . . .	36 69
Daniels & Co., floor-brushes, hardware, etc. . . . .	78 89
J. B. Varick, rubber hose, etc. . . . .	10 32
W. H. Vickery, repairing locks, . . . . .	8 50
Iverson, Blakeman, Taylor & Co., dictionaries . . . . .	16 50
Standard School Furnishing Co., desks . . . . .	33 00
R. D. Gay, window shades, etc. . . . .	11 00
Thompson. Brown & Co., books . . . . .	4 67
P. Rogez, books . . . . .	10 80
Ginn, Heath & Co., music charts . . . . .	6 30
George H. Stearns, brooms, etc. . . . .	5 35
J. Stickney, repairing gas-bag, etc. . . . .	2 25
Edward N. Fogg, pitcher, duster, etc. . . . .	6 84
J. G. Jones, trucking, etc. . . . .	2 21
J. B. Smith, electric bells . . . . .	36 00

Paid Sarah E. Sprague, color apparatus . . . . .	\$4 35	
Willard Small, books . . . . .	2 56	
L. P. Gee, molding-table . . . . .	5 00	
N. S. Clark, ribbon . . . . .	6 50	
A. N. Clapp, rope . . . . .	12	
J. H. Wiggin & Co., soap . . . . .	16	
G. R. Vance & Co. . . . .	75	
Thomas Dunlap . . . . .	6 12	
J. A. Crosby . . . . .	10 00	
John Ferguson . . . . .	10 00	
Manchester Water-works, water . . . . .	65 75	
Manchester Gas Co., gas . . . . .	8 82	
William E. Buck, use of team . . . . .	35 00	
By balance on hand . . . . .	242 04	
	<hr/>	\$1,630 38

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BOOKS AND STATIONERY.

		DR.
To appropriation . . . . .	\$682 04	
furniture and supplies, amount transferred . . . . .	500 00	
	<hr/>	\$1,182 04
		CR.
Paid E. R. Coburn & Co. . . . .	\$78 75	
Thomas W. Lane . . . . .	220 50	
Temple & Farrington . . . . .	60 22	
Hill & Co. . . . .	3 80	
Clark & Maynard . . . . .	18 00	
Eimer & Amend . . . . .	89 02	
Louis H. Marvel . . . . .	4 50	
Robert S. Davis & Co. . . . .	8 10	
Frost & Adams . . . . .	55 26	

Paid Boston School Supply Co. . . . .	\$100 00	
C. H. Prescott . . . . .	18 00	
Prang Educational Co. . . . .	69 47	
By teachers' salaries, amount transferred . . . . .	400 00	
balance on hand . . . . .	56 42	
	<u>          </u>	\$1,182 04

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PRINTING AND ADVERTISING.

		DR.
To appropriation . . . . .	\$781 62	
	<u>          </u>	\$781 62
		CR.
Paid Livingston & Kimball . . . . .	\$20 25	
John B. Clarke . . . . .	439 49	
Campbell & Williams . . . . .	2 75	
Challis & Campbell . . . . .	5 50	
Union Publishing Co. . . . .	51 00	
J. O. Burbank . . . . .	1 55	
Alfred Mudge & Son . . . . .	10 00	
H. H. Everett . . . . .	14 00	
By evening schools, amount transferred . . . . .	90 00	
balance on hand . . . . .	147 08	
	<u>          </u>	\$781 62

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CONTINGENT EXPENSES.

		DR.
To appropriation . . . . .	\$901 43	
fuel, amount transferred . . . . .	725 00	
	<u>          </u>	\$1,626 43



Paid Manchester Gas Co., gas . . . . .	\$53 46
Manchester Water-works, water . . . . .	783 20
J. C. Snow, sawdust, etc. . . . .	2 00
James Bros., team . . . . .	75
E. T. James, teams, . . . . .	11 50
C. H. Simpson, team . . . . .	2 00
C. E. Clough, moving settees . . . . .	2 00
B. F. Dennis, tuning pianos . . . . .	34 00
William E. Buck, use of teams . . . . .	67 00
Clarke & Dixon, repairing clock . . . . .	12 15
Manchester Opera House Co. . . . .	30 00
Eastman's Orchestra . . . . .	17 50
A. N. Clapp, brooms, soap, etc . . . . .	6 00
J. N. Baker, repairing clocks . . . . .	1 25
Thomas Chubbuck, diplomas . . . . .	200 00
Tristram Berry, repairing lightning rods . . . . .	6 00
Weeks & Currier, chemicals, etc. . . . .	92 63
E. G. Richardson, tuning pianos . . . . .	3 00
D. A. Simons, use of chairs . . . . .	4 00
Sarah E. Sprague, moving furniture, etc. . . . .	2 50
Harley, Robbie & Vadnais, ribbon. . . . .	1 80
Trefethen & Moore, repairing clocks . . . . .	2 50
Charles T. Cragin, engraving . . . . .	22 20
J. S. Holt & Co, soap . . . . .	4 36
William H. Vickery, keys, etc. . . . .	1 55
F.W. Batchelder, tuning pianos . . . . .	8 00
L. E. Phelps, expenses of sub-committee . . . . .	30 34

Paid N. P. Hunt, expenses of sub- committee . . . . .	\$30 34	
H. H. Huse, expenses of sub- committee . . . . .	30 34	
By balance on hand . . . . .	164 06	
	<u>          </u>	\$1,626 43

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CARE OF ROOMS.

		DR.
To appropriation . . . . .	\$2,986 09	
	<u>          </u>	\$2,986 09
		CR.
Paid J. A. Carr, janitor . . . . .	20 25	
John S. Avery " . . . . .	602 08	
William Stevens, janitor . . . . .	593 17	
D. S. Morgan, " . . . . .	450 00	
George W. Varnum, janitor . . . . .	358 04	
C. M. Norton, " . . . . .	252 88	
James Watts, " . . . . .	249 96	
Lewis H. Dickey, " . . . . .	6 00	
H. C. Dickey, " . . . . .	86 00	
Charles P. Ordway " . . . . .	36 00	
Josie Cazavaint, " . . . . .	39 40	
H. I. Rowell, " . . . . .	6 96	
Annie O. Proctor, " . . . . .	11 64	
D. S. Dunbar, " . . . . .	14 50	
Frank Tulip, " . . . . .	10 28	
Thomas P. Hearn, " . . . . .	6 00	
S. A. Dunbar, " . . . . .	5 80	
Fred L. Peaslee, " . . . . .	5 81	
Lena Miller, " . . . . .	12 30	
Anna Horrigan, " . . . . .	12 00	

Paid Fred H. Robinson, janitor . . . . .	\$12 00	
Oliver Merrill, " . . . . .	8 70	
Emma Pollard, " . . . . .	1 50	
Eddie M. Carr, " . . . . .	2 00	
Mary W. Mitchell, " . . . . .	7 00	
Burton H. Young, " . . . . .	23 00	
Mary E. Dickey, " . . . . .	5 50	
James Rowell, " . . . . .	9 00	
O. J. Randall, " . . . . .	2 25	
Mrs. Williamson, . . . . .	2 00	
Mrs. B. Mulhern . . . . .	50	
Addie L. Prescott . . . . .	2 00	
A. E. Eastman . . . . .	8 00	
A. G. Barr . . . . .	3 00	
Mary Fellows . . . . .	2 00	
Avery Bros, waste . . . . .	45	
J. B. Varick, garden rake . . . . .	50	
By teachers' salaries, amount trans- ferred . . . . .	100 00	
balance on hand . . . . .	17 62	
	<hr/>	\$2,986 09

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EVENING SCHOOLS.

		DR.
To appropriation . . . . .	\$1,193 08	
tuition, amount transferred . . . . .	227 69	
printing and advertising am't transferred . . . . .	90 00	
	<hr/>	\$1,510 77
		CR.
Paid F. C. Livingston, teacher . . . . .	\$217 80	
Charles E. Cochran, " . . . . .	240 20	
Susie H. Frame, " . . . . .	50 40	

Paid Annie L. Prescott, teacher	.	45 00
M. H. Searle,	" .	49 50
H. Alma Fracker,	" .	40 50
Hattie E. Daniels,	" .	48 60
Alta C. Willand,	" .	29 70
A. Minnie Campbell,	" .	36 00
Lelia A. Brooks,	" .	17 10
Bessie M. Hall,	" .	50 40
Fannie L. Sanborn,	" .	63 90
Nettie F. Ainsworth,	" .	49 50
Nellie Pearson,	" .	49 00
Genevieve L. Whitten,	" .	50 40
Fannie L. Kelley,	" .	57 70
M. Eugenia Lord,	" .	35 00
Josie H. Richardson,	" .	65 00
Edith M. Stebbins,	" .	55 80
Kittie J. Ferren,	" .	36 00
Phebe A. McGuire,	" .	7 00
Helen F. Wetherbee,	" .	9 90
Mary E. Bunton,	" .	20 70
D. H. Morgan, janitor	. .	28 50
G. W. Varnum, janitor	. .	26 75
Manchester Gas Co., gas	. .	71 64
A. N. Clapp, lamps, oil, etc.	. .	17 90
F. P. Colby, posting bills	. .	5 00
By balance on hand	. . .	35 88

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 \$1,510 77

## TEACHERS' SALARIES.

	DR.
To appropriation . . . . .	\$39,190 73
books and stationery, amount transferred . . . . .	400 00
care of rooms, amount trans- ferred . . . . .	100 00
	<hr style="width: 20%; margin-left: auto; margin-right: 0;"/> \$39,690 73
	CR.
Paid A. W. Bacheler . . . . .	\$2,000 00
George I. Hopkins . . . . .	1,200 00
L. E. Manahan . . . . .	800 00
E. J. Ela . . . . .	300 00
M. A. Buzzell . . . . .	500 00
R. M. Tuson . . . . .	500 00
L. C. Gilford . . . . .	451 25
L. R. Adams . . . . .	460 00
C. E. Reid . . . . .	460 00
A. O. Heath . . . . .	413 00
L. P. Gove . . . . .	467 50
F. D. Moulton . . . . .	450 00
E. L. Stokes . . . . .	450 00
L. E. Esty . . . . .	450 00
C. I. Stevens . . . . .	450 00
B. F. Dame . . . . .	1,350 00
E. S. Sanborn . . . . .	279 00
Mary J. Fife . . . . .	460 00
I. R. Daniels . . . . .	460 00
M. F. Barnes . . . . .	450 00
C. M. Gilmore . . . . .	450 00
Eva F. Tuson . . . . .	350 00
E. P. Sherburne . . . . .	1,350 00
A. G. Flanders . . . . .	285 00

Paid Annie A. Webster . . . .	460 00
B. L. Dean . . . .	460 00
C. A. Abbott . . . .	405 00
H. G. Flanders . . . .	450 00
H. M. Morrill . . . .	436 25
Georgianna Dow . . . .	450 00
Mary A. Smith . . . .	467 50
L. R. Quint . . . .	135 00
G. H. Brooks . . . .	450 00
N. I. Sanderson . . . .	450 00
N. B. Putnam . . . .	45 00
M. E. Sylvester . . . .	236 25
Ella F. Sanborn . . . .	450 00
M. N. Bower . . . .	450 00
M. G. Tynan . . . .	450 00
H. F. Wetherbee . . . .	342 50
L. C. Gilford . . . .	20 00
N. M. James . . . .	420 00
M. C. Edgerly . . . .	45 00
N. S. Buntun . . . .	475 00
K. M. Follansbee . . . .	355 00
Florence Nichols . . . .	450 00
E. M. Rowley . . . .	375 00
F. S. Sutcliffe . . . .	925 00
C. M. Dearborn . . . .	460 00
L. A. Burns . . . .	457 00
Florence McEvoy . . . .	270 00
Ellen E. McKean . . . .	450 00
Josie A. Martin . . . .	385 00
C. E. Woods . . . .	450 00
B. M. Kelley . . . .	450 00
J. F. Bailey . . . .	450 00
A. S. Downs . . . .	495 00
D. E. Haines . . . .	450 00

Paid A. G. Lord . . . .	360 00
N. D. Annis . . . .	352 50
E. J. Carley . . . .	476 00
J. G. Stebbins . . . .	450 00
P. A. McGuire . . . .	45 00
S. I. Locke . . . .	433 12
G. A. Nute . . . .	239 87
M. W. Mitchell . . . .	435 00
S. G. Woodman . . . .	435 00
A. W. Patten . . . .	348 75
O. J. Randall . . . .	429 75
O. A. Rowe . . . .	435 00
S. E. Sprague . . . .	1,120 00
K. J. Ferren . . . .	403 00
M. E. Bunton . . . .	360 50
Ella Hope . . . .	155 25
E. M. Stebbins . . . .	109 00
G. A. Wyman . . . .	299 00
F. L. Sanborn . . . .	110 50
J. J. Kimball . . . .	800 00
W. F. Brackett . . . .	324 00
Flora M. Senter . . . .	450 00
O. S. Dudley . . . .	95 00
D. A. Clifford . . . .	101 25
N. F. Ainsworth . . . .	119 50
S. H. Frame . . . .	113 00
M. L. Gage . . . .	119 25
Nellie Pearson . . . .	25 00
J. G. Dearborn . . . .	135 00
F. C. Baldwin . . . .	830 00
C. N. Brown . . . .	225 00
Cora Sanborn . . . .	35 00
F. C. Livingston . . . .	11 00
N. C. Woodman . . . .	307 50

Paid F. M. Kelley . . . .	35 25	
S. I. Green . . . .	15 00	
A. C. Prescott . . . .	180 00	
L. C. Brooks . . . .	28 50	
Will F. Gibson . . . .	169 00	
Josie Richardson . . . .	158 75	
By balance on hand . . . .	111 24	
		————— \$39,690 73

### INVENTORY OF SCHOOL-HOUSES.

High-School house and lot . . . .	\$50,000 00	
Furniture, charts, maps, books, and apparatus . . . .	2,000 00	\$52,000 00
Franklin-street house and lot . . . .	18,000 00	
Furniture, maps, etc. . . .	400 00	18,400 00
Spring-street house and lot . . . .	15,000 00	
Furniture, maps, etc. . . .	400 00	15,400 00
Lincoln-street house and lot . . . .	50,000 00	
Furniture, maps, etc. . . .	400 00	50,400 00
Ash-street house and lot . . . .	58,000 00	
Furniture, maps, etc. . . .	400 00	58,400 00
North-Main-street house and lot . . . .	17,000 00	
Furniture, maps, etc. . . .	600 00	17,600 00
Webster-street house and lot . . . .	16,000 00	
Furniture, maps, etc. . . .	350 00	16,350 00
Blodget-street house and lot . . . .	3,500 00	
Furniture, maps, etc. . . .	150 00	3,650 00
Bridge-street house and lot . . . .	900 00	900 00
Lowell-street house and lot . . . .	7,000 00	
Furniture, maps, etc. . . .	400 00	7,400 00
Manchester-street house and lot . . . .	8,500 00	
Furniture, maps, etc. . . .	300 00	8,800 00



Merrimack-street house and lot	. 15,000 00	
Furniture, maps, etc.	. . 550 00	15,550 00
Wilson-Hill house and lot	. . 3,300 00	
Furniture, maps, etc.	. . 100 00	3,400 00
Beech-street house and lot	. . 7,000 00	
Furniture, maps, etc.	. . 350 00	7,350 00
Center-street house and lot	. . 5,000 00	
Furniture, maps, etc.	. . 425 00	5,425 00
South-Main-street house and lot	. . 2,800 00	
Furniture, maps, etc.	. . 200 00	3,000 00
Bakersville house and lot	. . \$13,000 00	
Furniture, maps, etc.	. . 600 00	\$13,600 00
Stark-District house and lot	. . 3,000 00	
Furniture, maps, etc.	. . 150 00	3,150 00
Amoskeag house and lot	. . 3,700 00	
Furniture, maps, etc.	. . 125 00	3,825 00
Goffe's-Falls house and lot	. . 3,600 00	
Furniture, maps, etc.	. . 100 00	3,700 00
Harvey-District house and lot	. . 2,500 00	
Furniture, maps, etc.	. . 125 00	2,625 00
Webster-District house and lot	. . 600 00	
Furniture, maps, etc.	. . 50 00	650 00
Hallsville house and lot	. . 3,500 00	
Furniture, maps, etc.	. . 125 00	3,625 00
Youngsville house and lot	. . 1,400 00	
Furniture, maps, etc.	. . 125 00	1,525 00
Mosquito-Pond-Dist. house and lot	. . 1,200 00	
Furniture, maps, etc.	. . 100 00	1,300 00
Park-street house and lot	. . 8,500 00	8,500 00
		<hr/>
		\$326,525 00

## VALUATION, TAXES, ETC.

Year.	Valuation.	Taxes.	No. Polls.	Poll-Tax.	Val. of Poll.
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 . .	10,050,020	245,567 19	4,114	5 50	240
1867 . .	10,101,556	207,457 39	4,170	4 61	240
1868 . .	9,929,072	208,783 07	4,583	2 85	150
1869 . .	10,205,303	254,022 43	4,709	3 72	150
1870 . .	10,710,252	234,047 63	4,959	3 27	150
1871 . .	11,365,162	236,639 74	5,404	3 12	150
1872 . .	11,542,632	259,196 67	5,911	2 24	100
1873 . .	12,001,200	300,768 00	6,212	2 50	100
1874 . .	12,716,892	312,835 95	6,219	2 46	100
1875 . .	14,195,102	315,131 29	6,227	2 22	100
1876 . .	15,309,348	248,900 93	6,295	1 62	100
1877 . .	15,605,918	246,573 46	6,341	1 58	100
1878 . .	15,912,234	276,873 32	6,477	1 74	100
1879 . .	17,482,132	264,406 73	6,633	1 50	100
1880 . .	17,735,990	263,812 17	7,219	1 48	100
1881 . .	17,943,308	316,462 26	7,574	1 76	100
1882 . .	19,175,408	312,673 82	7,831	1 62	100
1883 . .	20,055,986	332,741 72	7,944	1 65	100

## CITY DEBT.

Date of Notes.	To Whom Payable.	When Payable.	Principal.
Aug. 1, 1869	City Bonds,	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,		
1883 . . . . .	\$927,500	00
Paid during the year . . . . .	13,000	00
		<hr/>
Amount of funded debt, Jan. 1,		
1884 . . . . .	\$914,500	00
Interest due, estimated . . . . .	20,000	00
Bills outstanding . . . . .	32,885	67
		<hr/>
		\$52,885 67
		<hr/>
Total indebtedness, Jan. 1, 1884 .	\$967,385	67
Cash in treasury, Jan. 1, 1884 .	\$67,671	66
Notes due the city . . . . .	228	70
Interest on the same . . . . .	79	80
		<hr/>
		\$67,980 16
		<hr/>
Net indebtedness, Jan. 1, 1884 .	\$899,405	51
Net indebtedness, Jan. 1, 1883 .	927,027	80
		<hr/>
Decrease of net indebtedness dur-		
ing the year . . . . .	\$27,622	29

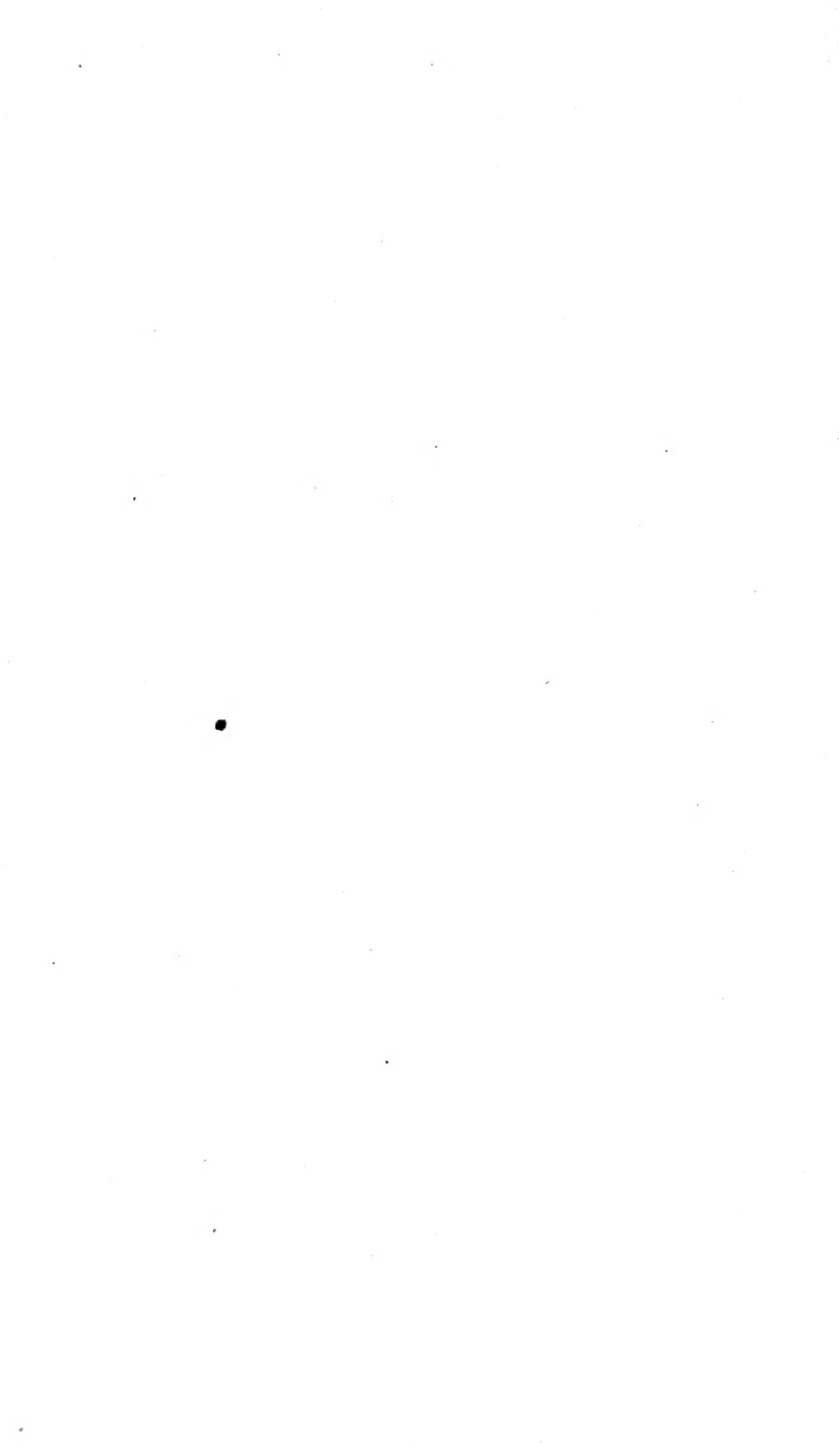
## CITY PROPERTY.

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 . . . . .	30,000 00
Stock, tools, furniture, etc., at city farm . . . . .	8,000 00
Engines, hose, and apparatus . . . . .	52,566 50
Engine-house, stable, and land, Vine street . . . . .	43,000 00
Hose-house and lot, Maple street . . . . .	2,500 00
Hose-house and lot, Park street . . . . .	6,000 00
Hose-house and lot, Nashua street . . . . .	500 00
Houses, tombs, and new cemetery . . . . .	5,000 00
Court-house and lot . . . . .	51,000 00
Common sewers . . . . .	220,000 00
Safes, furniture, and fixtures at city hall . . . . .	3,000 00
Street lanterns, posts, and pipes . . . . .	6,300 00
Water-works . . . . .	794,591 63
Horses, carts, plows, and tools for streets . . . . .	5,000 00
Ward-room and lot, Manchester street . . . . .	10,000 00
Ward-room and lot, Park street . . . . .	600 00
Engine-house and lot, ward eight . . . . .	2,300 00
Water-pipe, wagons, etc., for watering 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, Sagamore street . . . . .	800 00
Gravel lot, ward eight (one-half acre) . . . . .	50 00
Gravel lot, Bakersville (one acre) . . . . .	100 00
Gravel lot, Bakersville . . . . .	600 00
Gravel lot, District No. 8 . . . . .	150 00
Fire-alarm telegraph, bell-tower, and bell . . . . .	20,000 00
Valley Cemetery . . . . .	9,000 00
	<hr/>
	\$1,435,458 13
Amount of school property . . . . .	326,525 00
	<hr/>
Total property . . . . .	\$1,761,983 13

## APPROPRIATIONS FOR 1884.

Interest . . . . .	\$20,000 00
Paupers off the farm . . . . .	3,000 00
City farm . . . . .	2,500 00
City teams . . . . .	4,500 00
Highway district No. 1 . . . . .	300 00
“ “ “ 2 . . . . .	11,000 00
.. “ “ 3 . . . . .	700 00
“ “ “ 4 . . . . .	400 00
.. “ “ 5 . . . . .	400 00
“ “ “ 6 . . . . .	400 00
.. “ “ 7 . . . . .	900 00
“ “ “ 8 . . . . .	650 00
.. “ “ 9 . . . . .	500 00
“ “ “ 10 . . . . .	1,600 00
“ “ “ 11 . . . . .	1,000 00
“ “ “ 12 . . . . .	300 00
“ “ “ 13 . . . . .	200 00
New highways . . . . .	7,000 00
Land damages . . . . .	1,250 00
Watering streets . . . . .	3,500 00
Lighting streets . . . . .	8,500 00
Paving streets . . . . .	6,000 00
Bridges . . . . .	3,500 00
Sewers and drains . . . . .	20,000 00
Commons . . . . .	3,500 00
Pine Grove cemetery . . . . .	7,000 00
Valley cemetery . . . . .	2,000 00
Truant officer . . . . .	700 00
Fire department . . . . .	20,000 00
Police department . . . . .	17,000 00
City Hall and offices . . . . .	2,000 00
Printing and stationery . . . . .	1,500 00

Repairs of buildings . . . . .	\$1,800 00
City library . . . . .	3,000 00
Fire-alarm telegraph . . . . .	1,500 00
Militia . . . . .	800 00
Decoration of soldiers' graves . . . . .	200 00
Abatement of taxes . . . . .	2,500 00
Discount on taxes . . . . .	7,000 00
Incidental expenses . . . . .	35,000 00
State tax . . . . .	41,000 00
County tax . . . . .	33,000 00
Schools . . . . .	54,000 00
Land . . . . .	1,200 00
Interest on land . . . . .	3,000 00
New school-house . . . . .	6,000 00
Firemen's parade . . . . .	300 00
City officers' salaries . . . . .	12,000 00
Grading for concrete . . . . .	3,000 00
Reserved fund . . . . .	10,000 00
Macadamizing streets . . . . .	5,000 00
Hydrant service . . . . .	20,000 00
Payment of funded debt . . . . .	30,000 00
Battery building . . . . .	2,000 00
Scavenger teams . . . . .	3,500 00
	<hr/>
Total . . . . .	\$425,600 00





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