

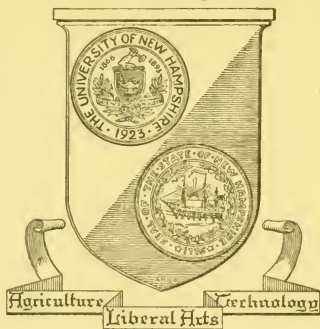
City of Manchester N.H.



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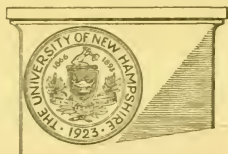
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James E. Dodge,

City Auditor.

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FIFTY - FOURTH ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF MANCHESTER

NEW HAMPSHIRE

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1899.

TOGETHER WITH

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



MANCHESTER, N. H.

PRINTED BY THE JOHN B. CLARKE COMPANY.

1900.

MANCHESTER CITY GOVERNMENT.

1899.

Mayor.

WILLIAM C. CLARKE.....Office, City Hall

Chosen at biennial election in November, 1898. Salary, \$1,800 per annum, payable quarterly. (Act of June, 1848, section 1. Chapter 223, Laws of 1883. Public Statutes, chapter 47.) Telephone at house and office.

Aldermen.

Act of June, 1848, section 1. Public Statutes, chapter 48.

- Ward 1. John P. Mullen, 12 Whitney street.
 - Ward 2. De Lafayette Robinson, 255 Front street, Amoskeag.
 - Ward 3. William F. Elliott, 194 Concord street.
 - Ward 4. George H. Phinney, 133 Hanover street.
 - Ward 5. Richard J. Barry, 232 Lake avenue.
 - Ward 6. Samuel M. Couch, 382 East Spruce street.
 - Ward 7. John F. Frost, 11 West Merrimack street.
 - Ward 8. Gillis Stark, 42 School street.
 - Ward 9. Frank T. Provost, 21 Amory street.
 - Ward 10. Eugene E. Reed, 636 Somerville street.
-

President of the Common Council.

Harry T. Lord, 387 Hanover street.

Members of the Common Council.

Act of January, 1897, chapter 198.

WARD 1.

- Abner J. Sanborn, 31 Market street.
- Frederick W. Bond, 46 Amoskeag Corporation, Stark street.
- George H. Knowlton, 1436 Elm street.

WARD 2.

Herman F. Straw, 607 Chestnut street.
Robert R. Chase, 841 Union street.
Elijah M. Topliff, 192 Prospect street.

WARD 3.

A. Gale Straw, 627 Union street.
Job J. Grenier, 341 Orange street.
Charles H. Clark, 17 Malvern street.

WARD 4.

Almer D. Gooden, 466 Hanover street.
Harry T. Lord, 387 Hanover street.
William G. Garmon, 460 Manchester street.

WARD 5.

George A. Doherty, 222 Central street.
Bryan Connors, 146 Cedar street.
John F. Harrington, 145 East Spruce street.

WARD 6.

Henry I. Haselton, 404 Lake avenue.
Walter M. Laug, 719 Summer street.
Smith Dodge, 427 Central street.

WARD 7.

Frank W. Stone, 7 West Merrimack street.
Alexander Knight, 50 West Merrimack street.
Hanson R. Armstrong, 41 West Merrimack street.

WARD 8.

James E. McDonald, 41 Parker street.
Andrew Netsch, 20 Tilton street.
Walter B. Mitchell, 29 Third street.

WARD 9.

Henry O. Hill, 302 Main street.
Charles J. Untiet, 490 Cartier street.
Moise Bessette, 501 Amory street.

WARD 10.

Nelson W. Paige, Mammoth road.
Frank A. Emerson, 50 Cleveland street.
Eli Walker, 146 Jewett street.

Clerk of Common Council.

George L. Stearns, 129 Salmon street.

Salary, \$200. (General Laws, chapter 46, sections 7-9. City Laws and Ordinances, page 33, chapter 6, section 11.)

City Clerk.

Edward C. Smith.....Office, City Hall

Salary, \$1,350. Chosen in January, biennially, by board of aldermen. Residence, 900 Union street.

City Auditor.

James E. Dodge.....Office, City Hall

Salary, \$1,200. Appointed by mayor and approved by board of aldermen in January, annually. (Laws of 1889, chapter 287. City Ordinances, pages 44, 71, 83-88, 173.) Residence, River road north.

Auditor's Clerk.

Lizzie M. Cogswell.....Auditor's Office, City Hall

Residence, 60 Walnut street.

City Treasurer.

Fred L. Allen.....Office, City Hall

Salary, \$1,350. Elected by board of aldermen in January, biennially. (Act of January, 1897, chapter 198.) Residence, 33 Walnut street.

Treasurer's Clerk.

Blanche E. Bullock.....Treasurer's Office, City Hall

Collector of Taxes.

George E. Morrill.....Office, City Hall

Salary, \$1,350 and fees. Elected by mayor and aldermen before May 1, biennially. (Act of July, 1851. Act of June, 1859, section 6. Act of 1897, chapter 198. Public Statutes, chapter 43. City Laws and Ordinances, chapter 33.) Residence, 740 Chestnut street.

Deputy Collector of Taxes.

Edwin C. Paul.....Collector's Office, City Hall

Salary, \$800. Appointed by tax collector with approval of mayor and aldermen. (City Laws and Ordinances, chapter 33, section 3.) Residence, 416 Central street.

City Solicitor.

George A. Wagner.....Office, Kennard, Room 614

Salary, \$800. Elected by board of aldermen in January biennially. (Act of 1897, chapter 198.) Residence, 332 Orange street.

City Messenger.

John A. Barker.....Office, City Hall

Salary, \$700. Elected by board of aldermen in January, biennially. (City Laws and Ordinances, chapters 4, 6.) Residence, 49 Appleton street.

Standing Committees.

On Finance.—The Mayor and Aldermen Frost and Provost.

On Accounts.—Aldermen Provost, Couch, and Robinson. (Meets Wednesday succeeding the 24th of each month. All bills must be left at the city auditor's office, properly approved, not later than the 20th of each month.)

On Claims.—Aldermen Mullen, Barry, Provost, and Elliott. (Meets third Friday in each month.)

On Streets.—Aldermen Robinson, Barry, and Mullen.

On Sewers and Drains.—Aldermen Frost, Stark, and Couch.

On Lighting Streets.—Aldermen Barry, Phinney, and Frost.

On Lands and Buildings.—Aldermen Elliott, Provost, and Mullen.

On Fire Department.—Aldermen Phinney, Stark, and Elliott.

On Commons and Cemeteries.—Aldermen Stark, Phinney, Elliott, Couch, and Robinson.

On City Farm and House of Correction.—Aldermen Couch, Robinson, and Mullen.

On Military Affairs.—Aldermen Couch, Mullen, and Barry.

On Public Health.—Aldermen Stark, Elliott, and Provost.

On Enrollment.—Aldermen Elliott, Barry, and Phinney.

On Bills on Second Reading.—Aldermen Phinney, Stark, and Frost.

On Licenses.—Aldermen Frost, Barry, and Elliott.

On Setting Trees.—Aldermen Provost, Mullen, and Robinson.

Common Council.

STANDING COMMITTEES.

No. 1. Central, Auditor's, and Engineer's Departments and Department of Taxes.—Messrs. Lord, Grenier, Connors, McDonald, and Haselton.

No. 2. Street and Sewer Department.—Messrs. H. F. Straw, Garmon, Stone, Clark, Doherty.

No. 3. School Department.—Messrs. Topliff, Mitchell, Knight, Lord, Knowlton, and Lang.

No. 4. Fire Department.—Messrs. Gooden, Emerson, Armstrong, Chase, Untiet, and Dodge.

No. 5. Public Buildings and Places Department.—Messrs. Sanborn, Knight, Chase, Bessette, and Paige.

No. 6. Library, Police, Health, and Charitable Departments.—Messrs. A. G. Straw, Gooden, Bond, Netsch, and Hill.

No. 7. Lighting Streets Department.—Messrs. Clark, Garmon, Paige, Mitchell, and Harrington.

Finance Committee.—Messrs. Lord, H. F. Straw, Topliff, Gooden, A. G. Straw, Sanborn, and Clark.

City Physician.

Frederick Perkins.....Office, 895 Elm street

Salary, \$600. Elected by board of aldermen in January, biennially. (Act of 1897, chapter 198. City Ordinances, chapter 9, sections 29, 30.) Residence, 52 Clarke street.

City Engineer.

Samuel J. Lord.....Office, City Hall

Salary, \$1,350. Chosen by board of aldermen in January, biennially. (City Ordinances, chapter 6, sections 33, 34.)

Water Commissioners.

(Chapter 70, Laws of 1871. City Ordinances, chapter 36, and Laws of 1891, chapter 26, page 319, act approved March 31, 1891. Chapter 183, Laws of 1893.) One commissioner elected annually by mayor and aldermen, in the month of September, for a term of six years. Office at court house, corner Franklin and West Merrimack streets. Telephone at office and at pumping station.

The Mayor, *ex officio*.

Charles H. Manning, term expires January, 1901.

Frank Dowst, term expires January, 1900.

Alpheus Gay, term expires January, 1905.

Henry Chandler, term expires January, 1904.

Harry E. Parker, term expires January, 1903.

Charles T. Means, term expires January, 1902.

Alpheus Gay, chairman.

Henry Chandler, clerk. Salary, \$100. Chosen by the board of commissioners.

Superintendent of Water-Works.

Charles K. Walker.....Office, Court House, Franklin street

Salary, \$2,000. Chosen by water commissioners annually. Residence, 68 South Main street, West Manchester.

Clerk of the Water-Works.

Arthur E. Stearns.....Office, Court House, Franklin street

Salary, \$1,500. Chosen by water commissioners annually. Residence, 421 Hanover street.

Engineer at Old Pumping Station.

Josiah Laselle. Salary, \$700, rent, fuel, and use of land.

Chosen by water commissioners annually.

Engineer at New Pumping Station.

Henry A. Donaway. Salary, \$2.50 per day, rent and fuel.

Justice of the Police Court.

Isaac L. Heath, court room at police station, corner Manchester and Chestnut streets.

Salary, \$1,500. Appointed by the governor with the advice of the council. (General Laws, chapter 215: chapter 163, sections 17, 18, 19, of the Laws of 1878, as amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.)

Associate Justice of the Police Court.

George W. Prescott. Salary, \$300 per annum.

Appointed by the governor, with the advice of the council. (Chapter 215, General Laws, sections 2-14. Public Statutes, chapter 211. Chapter 296, Laws of 1893.)

Clerk of the Police Court.

John C. Bickford. Salary, \$600.

Appointed by the justice of the police court. (Chapter 163, sections 17-19, General Laws, amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.) Residence, 15 Ash street.

Police.

The members of the police are appointed by the police commissioners, and hold their commissions during good behavior. They are, by virtue of their appointment, constables and conservators of the peace, and their jurisdiction extends throughout the city. (Chapter 253, section 5, General Laws; chapter 303, Laws of 1887; chapter 202, Laws of 1893.) Police station, at the corner of Chestnut and Manchester streets.

Police Commissioners.

See chapter 202, Laws 1893.

Noah S. Clark, clerk, term expires January, 1904.

Frank P. Carpenter, term expires January, 1902.

Harry E. Loveren, chairman, term expires January, 1900.

Chief of Police.

Michael J. Healy.....Office at Police Station

Salary, \$2,000. Residence, 304 Central street. Telephone at house and office.

Deputy Chief of Police.

John F. Cassidy.....Office at Police Station

Salary, \$1,500. Residence, 415 Manchester street.

Captain of the Watch.

Thomas E. Steele. Salary, \$2.50 per day. Residence, 56 Nashua street.

Sergeants.

Leon E. Magoon. Salary, \$2.50 per day. Residence, 355 East Spruce street.

John T. O'Dowd. Salary, \$2.50 per day. Residence, 90 Adams street.

Patrolmen.

Archambeault, Joseph.	Maher, William.
Badger, John C.	Marden, Frank W.
Bean, Randall W.	McQuade, Edward H.
Bourassa, Frank E.	Moore, Frank P.
Brown, John G.	Nixon, John T.
Burns, Henry A.	O'Malley, John F.
Butler, James S.	Parmenter, Wallace C.
Callaghan, Peter.	Poehlman, Osear R.
Connor, John J.	Proctor, Levi J.
Coolidge, Edgar L.	Rainville, Frank.
Dustin, Frank J.	Ring, Olof.
Farrell, Joseph A.	Russell, Albert.
Hampston, James S.	Somers, Elmer E.
Hampston, Patrick.	Sullivan, Florence.
Healy, John D.	Sweeney, James.
Hutchins, Dexter B.	Welch, John T.
Lovejoy, George A.	Wheden, Eben E.

Special Patrolmen.

Colburn, Everett E.	Lynch, John J.
Kearns, Timothy.	Sullivan, Timothy.

Janitor of Station.

Frank P. Wiggin. Salary, \$1.75 per day. Residence, 255 Auburn street.

Matron.

Miss A. B. Brown. Salary, \$415 per annum. Residence, 277 Merri-mack street.

School Committee.

Chosen at the biennial election in November, 1898; mayor and president of the common council members *ex officio*. The board of school committee choose the clerk of the board, the superintendent of public instruction, the truant officer, and the teachers in the public schools, and determine their salaries. They have charge of the repairs of schoolhouses, to a limited extent, and the purchase of free text-books and other supplies, and are limited by the appropriations of the city councils. The salary of the committee is \$10 each.

WARD 1.

Walter B. Heath.	Elliott C. Lambert.
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WARD 2.

Elmer W. Nutting.

Charles H. Manning.

WARD 3.

George D. Towne.

Louis E. Phelps.

WARD 4.

John H. Riedell.

Nathaniel L. Colby.

WARD 5.

Daniel J. McAuliffe.

John T. Kelley.

WARD 6.

Eugene B. Dunbar.

Harry L. Davis.

WARD 7.

Edson S. Heath.

Edward B. Woodbury.

WARD 8.

Frank A. Cadwell.

Ned T. Wallace.

WARD 9.

Robert E. Walsh.

Joseph A. Boivin.

WARD 10.

Mark E. Harvey.

Harry H. Burpee.

William C. Clarke, *ex officio* chairman.Harry T. Lord, *ex officio*.

George D. Towne, vice-chairman.

Elliott C. Lambert, clerk.

Superintendent of Public Instruction.

William E. Buck.....Office, City Hall

Salary, \$2,300. Residence, 324 Myrtle street.

Superintendent's Clerk.

Fannie L. Sanborn.....Residence, 161 Hanover street.

Salary, \$500.

Truant Officer.

Curtis W. Davis.....Office, City Hall

Salary, \$750. Residence, 849 Chestnut street.

Assessors.

One assessor from each ward chosen at the biennial election in November. Paid \$2.50 each for each day while employed in the assessment and abatement of taxes. Office, City Hall. (Charter, section 25. Public Statutes, chapter 48, section 1; chapter 50, section 4; chapter 49, sections 10, 11, 12. City Ordinances, chapter 6, section 26.) Assistant assessors, not exceeding six, chosen by the city councils.

- Ward 1. Henry Lewis, 32 Amoskeag Corporation.
- Ward 2. John K. Wilson, 67 Blodget street.
- Ward 3. David O. Fernald, 384 Lowell street.
- Ward 4. Harrison D. Lord, 387 Hanover street.
- Ward 5. George F. Sheehan, 85 Cedar street.
- Ward 6. Leroy M. Streeter, Mammoth road.
- Ward 7. Robert Leggett, 50 Amoskeag Corporation.
- Ward 8. Eugene W. Brigham, 6 Marlboro street.
- Ward 9. John T. Hannigan, 159 Cartier street.
- Ward 10. Henry Horton, Mammoth road.

CHAIRMAN OF ASSESSORS.

David O. Fernald.....Office, City Hall

CLERK OF ASSESSORS.

Eugene W. Brigham.....Office, City Hall

Inspectors of Check-Lists.

One in each ward, chosen at the biennial election in November. Compensation, \$2.25 per day for each day actually employed. Office, City Hall. (Laws of 1878, chapter 163, sections 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, and City Ordinances, chapter 14, section 9.)

- Ward 1. George C. Kemp, 40 Machine Shop block.
- Ward 2. Charles B. Tucker, 777 Union street.
- Ward 3. William B. Corey, 88 Pearl street.
- Ward 4. Albert T. Barr, 336 Merrimack street.
- Ward 5. Daniel A. Murphy, 246 Auburn street.
- Ward 6. George Taylor, 480 Lake avenue.
- Ward 7. Joseph A. Foster, 42 Amoskeag Corporation.
- Ward 8. Charles C. Tinkham, 9 Parker avenue.
- Ward 9. Leander S. Boivin, 3 Monmouth street.
- Ward 10. John G. Hutchinson, 939 Hayward street.

Overseers of the Poor.

One in each ward, chosen at biennial election in November. The mayor is a member *ex officio*. Compensation, \$25 per annum, each; clerk of the board, \$100 per annum, determined by City Ordinances, chapter 14, section 18, as amended by Ordinance of August 5, 1890. Meet third Wednesday of each month in City Hall building.

- Ward 1. William H. Maxwell, clerk, 20 Amoskeag Corporation.
- Ward 2. Daniel G. Andrews, 777 Union street.
- Ward 3. Benjamin F. Garland, 28 Linden street.
- Ward 4. Charles B. Clarkson, 249 Concord street.
- Ward 5. Patrick Costello, 106 East Spruce street.
- Ward 6. Charles Francis, Candia road.
- Ward 7. William Marshall, 72 Amoskeag Corporation.
- Ward 8. Charles S. McKean, 495 Granite street.
- Ward 9. Joseph Doucet, 2 Monmouth street.
- Ward 10. William Glover, Ferry road.
- William C. Clarke, *ex officio*, Office, City Hall.

Board of Health.

(City Ordinances, chapter 14, section 10, as amended. Laws of 1885, chapter 165; Laws of 1887, chapter 227; Public Statutes, chapters 108, 109, 110.) One member appointed by the mayor in January of each year, to hold office for a term of three years. Salary, \$200 each per annum. Office, Court House, West Merrimack, corner of Franklin street.

- John C. Bickford. Term expires first Monday in February, 1900.
- William K. Robbins. Term expires first Monday in February, 1901.
- William M. Parsons.* Term expires first Monday in February, 1899.

William B. Blake, sanitary inspector, Hanover-street road. Office, Court House, Merrimack, corner of Franklin street.

John F. Looney, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

Carl O. Seaman, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

M. Alma Fracker, office clerk.

Fire Department.

The chief engineer and four assistant engineers are chosen annually in the month of January, by a majority of the city councils in convention. The salary of the chief engineer is \$1,300 per annum; the assistant engineers, each \$125 per annum. They exercise the powers and perform the duties of firewards. The said engineers constitute the board of engineers, and elect a clerk whose compensation is \$25 a

* Reappointed.

year. The annual compensation of the call members of the several hook-and-ladder, hose, steam fire engine, and chemical engine companies is as follows: Captains, each \$165; lieutenants, each \$160; clerks, each \$160; assistant engineers, each \$155; all other members, each \$150; payable in equal semi-annual payments, on the first of January and July. (Laws of 1870, chapter 99. General Laws, chapter 106. City Ordinances, chapters 6 and 12.) Six members are permanently employed as engineers at \$76.25 per month each, and twenty-one as drivers at \$68.33 $\frac{1}{3}$ per month each, six other permanent men at \$65 per month each, and receive no compensation as call members. Members and officers of each company are appointed by the board of engineers.

Chief Engineer.

Thomas W. Lane.....Office, Central Station, Vine street

Residence, 1937 Elm street. Telephone at house and office.

Frank M. Frisselle, 58 Myrtle street.

John Montplaisir, 252 Coolidge avenue.

Eugene S. Whitney, River road north, corner West North street.

Clarence R. Merrill, clerk, 418 Merrimack street.

For further information see chief engineer's report.

Trustees of City Library.

(Laws of 1854, chapter 1588. See contract with Manchester Athenaeum, printed on pages 107 and 108 of City Report for fiscal year ending January 31, 1855.) Board of seven trustees, one of whom is elected by aldermen and board of trustees in joint convention in September, annually. Term of service, seven years; no salary. Two additional trustees, mayor, and president of common council, *ex officio*.

Frank P. Carpenter, term expires October 1, 1902, Elm, corner West North street.

Nathan P. Hunt, term expires October 1, 1901, 747 Union street.

Herman F. Straw, term expires October 1, 1900, 607 Chestnut street.

Walter M. Parker,* term expires October 1, 1899, 1883 Elm street, corner Webster.

Roger G. Sullivan, term expires October 1, 1905, 168 Walnut street.

John C. French, term expires October 1, 1904, 129 Bay street.

C. D. McDuffie, term expires October 1, 1903, Ash street, corner Myrtle.

William C. Clarke, *ex officio*.

Harry T. Lord, *ex officio*.

Board of Street and Park Commissioners.

The city councils in joint convention, biennially, elect one member of said board for a term of six years. Not more than two members

* Reappointed.

can be of the same political party. Said board, consisting of three members, has full charge, management, and control of the building, constructing, repairing, and maintaining of all the streets, highways, lanes, sidewalks, bridges, public sewers and drains, and public parks and commons. (See Laws of 1893, chapter 264.) Office, City Hall building. Open from 8 to 12 A. M., 2 to 5 P. M. Regular meeting of the board at 2 o'clock P. M. each day. Salary of each member, \$600 per year, payable quarterly, and each is allowed \$150 annually for horse hire.

George H. Stearns, clerk, term expires 1904.

Horace P. Simpson, chairman, term expires 1900.

Byron Worthen, term expires 1902.

Assistant Clerk.

Julia F. Stearns.

City Weigher.

Gilbert Lyons. Office, city scales; residence, 64 Bridge street.

Elected biennially in board of aldermen. Salary, \$400 per annum; all fees for weighing returned monthly to city treasurer with sworn statement. Stationed at city scales on Franklin street.

Sealer of Weights and Measures.

Charles B. Clarkson.

Elected biennially in January by board of aldermen. Paid by fees. (Section 25, chapter 43, Public Statutes, and chapter 125, Public Statutes.)

Trustees of Cemeteries.

(City Ordinances, chapter 39, sections 1, 2, 3, 4.) Two trustees elected by board of aldermen in January, annually, for the term of four years. Sub-trustees appointed by board of trustees.

J. Adam Graf,* 10 Middle street, term expires January, 1899.

William H. Huse,* Mammoth road, term expires 1899.

John L. Sanborn, 25 Market street, term expires 1902.

Bushrod W. Hill, 299 Hanover street, term expires 1902.

Stillman P. Cannon, 99 Lowell street, term expires 1901.

Charles E. Stearns, 329 Front street, term expires 1901.

Edwin F. Jones, 15 High street, term expires January, 1900.

John P. Young, 346 Merrimack street, term expires January, 1900.

Fred L. Allen, clerk and treasurer, 6 Linden street.

* Reappointed.

Sub-Trustees of Cemeteries.**VALLEY CEMETERY.**

Aldermen George H. Phinney and De Lafayette Robinson; John L. Sanborn, Bushrod W. Hill, and Stillman P. Cannon.

PINE GROVE CEMETERY.

Aldermen Gillis Stark and William F. Elliott; J. Adam Graf, John P. Young, and Edwin F. Jones.

AMOSKEAG CEMETERY.

Alderman Samuel M. Couch; Charles E. Stearns and William H. Huse.

SUPERINTENDENT OF PINE GROVE CEMETERY.

Byron A. Stearns. Office and residence at the cemetery. Telephone.

SUPERINTENDENT OF VALLEY CEMETERY.

Charles H. G. Foss. Office at the cemetery; residence, 267 Lake avenue.

TRUSTEES OF CEMETERY FUNDS.

Charles H. Bartlett, 25 High street.

Otis Barton, 122 Orange street.

William C. Clarke, *ex officio*.

Inspector of Milk.

Joseph H. Geisel.....767 Union street

Term expires February 1, biennially. (Public Statutes, chapter 127.)
Appointed by mayor and aldermen. Salary, \$300 per annum.

Inspector of Buildings.

Lyman M. Aldrich.....Office, City Hall

Residence, 375 Lake avenue. Appointed by board of mayor and aldermen, biennially, in February. Salary, \$800 per annum. (City Ordinances, chapter 15. Laws of 1883, chapter 94.)

Inspectors of Oil.

Joseph B. Baril.....99 Bridge street

John Cayzer383 Granite street

(Public Statutes, chapter 129, sections 25-34. City Ordinances, chapter 25.) Paid by fees, $\frac{1}{4}$ of 1 per cent per gallon.

Moderators.

Elected biennially. (General Laws, chapter 31, sections 3, 9; chapter 36, section 9; chapter 44, section 7. City Ordinances, page 18. See Public Statutes relating to towns and cities.)

- Ward 1. Abial W. Eastman.
- Ward 2. William M. Butterfield.
- Ward 3. Alfred K. Hobbs.
- Ward 4. Stephen B. Stearns.
- Ward 5. Matthew Mahoney.
- Ward 6. Herbert S. Clough.
- Ward 7. J. Adam Graf.
- Ward 8. Frank O. Clement.
- Ward 9. John Montplaisir.
- Ward 10. William B. Burpee.

Ward Clerks.

Elected biennially. (General Laws, chapter 44, sections 10, 12. City Ordinances, page 18. Public Statutes relating to towns and cities.)

- Ward 1. Frank X. Foster.
- Ward 2. William H. Maxwell.
- Ward 3. William R. Eaton.
- Ward 4. George M. Currier.
- Ward 5. Daniel F. O'Neil.
- Ward 6. Harry A. Piper.
- Ward 7. Charles E. Bartlett.
- Ward 8. William G. White.
- Ward 9. Michael J. Connelly.
- Ward 10. William P. Hall.

Selectmen.

Elected biennially. (General Laws, chapter 1, section 27; chapter 12, section 6; chapter 40, sections 2, 3; chapter 109, section 27; chapter 213, section 1. City Ordinances, page 18. Public Statutes relating to towns and cities.)

WARD 1.

John H. Wales, Jr.

John R. Hickey.

John V. Brandt.

WARD 2.

Fred K. Ramsey.

James E. Orrill.

Silas R. Wallace.

WARD 3.

Walter H. Wright.

Fred W. Shontell.

Victor C. Johnson.

WARD 4.

Victor L. Duhaime.

Joseph E. Merrill.

Charles R. Hodge.

WARD 5.

Stephen Maloney.

William McGinnin.

James L. Glynn.

WARD 6.

Samuel M. Worthley.

Edward P. Cogswell.

John C. Ferguson.

WARD 7.

Moses Sheriff.

Robert Leggett.

Nelson G. Van Dyke.

WARD 8.

Richard P. Grossman.

William R. Blakely.

Edward L. Tinkham.

WARD 9.

Alfred Hebert.

Michael J. Bradley.

Oscar Ouellette.

WARD 10.

Ignatius T. Webster.

John W. Mellor.

Patrick H. O'Malley.

INAUGURAL ADDRESS.

INAUGURAL ADDRESS.

Gentlemen of the City Councils:

Two years ago in my inaugural address to the city councils I entered very fully into a consideration of the condition and needs of the various city departments, and as I find no reason now for changing any of the views then expressed it is not my purpose to occupy your time and attention with an extended message. Furthermore, under the terms of a new city charter, which goes into effect at the opening of this administration, the customary detailed inaugural address seems to me uncalled for. By this charter all the powers now vested by law in the mayor and aldermen and the common council and the city councils jointly and severally are vested in the board of mayor and aldermen, excepting and reserving to the common council the sole and highly responsible power and authority to consider and decide upon the amount of money to be raised by taxation in each and every year, and the objects and purposes for which the taxes of the city shall be raised under the laws of the state and the ordinances of the city, loan or otherwise. The board of mayor and aldermen, I might add, has no right to make contracts for the expenditure of money—not properly appropriated by the common council. Therefore, whatever I may have to advise regarding the affairs of the city will for the most part be communicated, as occasion may seem to demand, to the board of which I have the honor of being a member.

It may not be out of place, however, for me on this occasion to touch briefly upon a few of the most important matters that concern us at this time. Unquestionably, one of the most important is that relating to the assessment of taxable property. Two years ago in my inaugural address to the city councils I said:

"It is the belief of a large number of the taxpayers of Manchester that the present method of assessing taxable property is attended by great injustice, and that the system should in some way be changed. This opinion is shared by me; but so long as a board of assessors is chosen as the present board is chosen, I see no reason to expect immediate change or improvement. The responsibility of assessing the many millions of dollars worth of property that should properly be assessed in a city like Manchester should be entrusted only to men of fairness, peculiar ability, sagacity, and unswerving honesty, and even with these qualifications, if they did not possess complete and accurate knowledge of the present values of property, and had not the

courage and backbone to assess them upon a basis of strict equality, they would do no better than the present or past boards have done: and I believe that they have acted honestly and to the best of their ability while in office. In seeking for a remedy to elevate the standard and increase the efficiency and favor of this department I would look to a judiciously selected board of well qualified men chosen in some manner that would insure a wise and proper selection, and that they be paid an ample salary for the work they are called upon to perform. So long as the present method of assessment is pursued, so long will inequalities and injustice continue."

In the light of events that have since taken place I think I am justified in again urging upon the attention of the Manchester members of the incoming legislature the imperative necessity of securing legislation that will thoroughly revise present methods and afford the city a more equitable and efficient system. The subject of the assessment of taxes has been altogether too lightly considered in the past, but the time has now come when the great mass of the people are prepared to welcome a change in the old and unsatisfactory methods still in vogue; and, further than this, I believe they demand it.

What position the council will take in shaping a financial policy for the year 1899 I cannot say, but I sincerely hope that it will not attempt to alter the one that has been in operation the past two years. That practice, as most of you are aware, has been opposed to the issuance of bonds and the borrowing of money for any purpose whatever unless demanded by an emergency, and it is this kind of a policy, I am satisfied, that is the wise one for the future. Current expenses should be met by current receipts alone unless great necessity arises for different financial action. It costs a great deal of money to cover the necessary expenses of a city like Manchester and meet the public demand for permanent improvements, and an experience of four years as executive officer has convinced me that they cannot be met under a "pay as you go" policy by a tax rate much below two per cent, certainly not under the present valuation of property; while on the other hand a tax rate exceeding two per cent should be discountenanced.

I know that economy is never agreeable, either to the individual or to the municipality, but it is generally salutary in its effect upon both. Yet, view this as you may, the plain, unvarnished truth is that even with strict economy you will be no more than able to make both ends meet at the end of the year.

Following is the official statement of the city auditor after an examination of the accounts of the city treasurer for the year ending December 31, 1898:

Net cash on hand January 1, 1898	\$122,052.37
Receipts during the year	1,270,845.91
Total	\$1,392,898.28

Amount of drafts during the year	\$1,277,690.80
Net cash on hand December 31, 1898	115,207.48
Total	<u>\$1,392,898.28</u>

Cash balance taken December 31, 1898:

Deposited in Suffolk National Bank	\$20,874.00
Deposited in Amoskeag National Bank	10,040.02
Deposited in Manchester National Bank	12,470.00
Deposited in office safe	<u>85,035.60</u>

Gross amount of cash on hand	\$128,419.71
Deduct amount of bills unpaid	<u>13,212.23</u>

Net cash on hand December 31, 1898	\$115,207.48
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During the past two years the sinking fund deposits of the city have nearly doubled, the fund for the liquidation of water-works bonds having increased from \$59,422.59 to \$104,821.64, while the fund for the liquidation of city improvement bonds has increased from \$35,222.65 to \$79,040.15. The total sinking fund to the credit of the city now amounts to \$184,156.75.

Aside from the public demand for a continuance of the good roads movement that has been so favorably indorsed during the past two years, I am not now informed of any special demands for large expenditures of money during the year 1899. The work of repaving Elm street should be prosecuted this year and every year until it is completed and such other permanent paving laid in the most traveled business streets as our means will allow. The demand for new sewers is annually a large one, and as the public health is one of vital concern to all a liberal appropriation will be required for this class of work. The efficiency of the public schools and the fire department should be maintained, and as these, together with the street and park department, are the sources of the greatest expenditures, it is these and their requirements that the new financial agents of the city will need to most thoroughly investigate. The police department is under the management of a board of commissioners appointed by the governor and council, and aside from appropriating money for its maintenance, neither branch of the city councils has any jurisdiction over it. The compensation of the members of the department, under a special act passed by the last New Hampshire legislature, will hereafter be established by the commission and not by the city councils, as formerly. The force now numbers thirty-three regular officers and ten special officers and is a great credit to the city. The receipts of the department for 1898 were \$55,387.74, or \$8,712.74 in excess of its appropriation for the year.

The report against the city in the suit of the Amoskeag Company for an abatement of \$41,357.53 of its taxes for the year 1897, with interest from December 1, 1897, probably places a new financial burden

upon the city that may have to be provided for this year, and if so it is for the council to say how this shall be done. A similar ease covering the taxes of the company for 1898 is now in the courts.

The litigation to which the city is now a party is mainly divided into three classes: (1) Water-works cases which are in the control of the board of water commissioners; (2) the two cases of the Amoskeag Manufacturing Company for abatement of a part of its taxes for the years 1897 and 1898; (3) and a number of cases for damages for personal injuries received by employees of the board of street and park commissioners, in which it is believed the court will hold that the city is not liable. Aside from these there are but few cases, mostly for damages to real estate by change of grade of highways, and petitions for new highways which the board of mayor and aldermen have refused to lay out.

In each of my previous inaugural addresses I have urged upon the city councils the importance of appointing a building inspector, under new and judiciously established regulations, and such an amendment to the ordinances should, in my opinion, be prepared and introduced as will at once give the city the services of a competent and trustworthy official, who shall be required to devote his entire time and attention to the duties of his office at a fixed salary. This I believe to be one of the pressing needs of the hour.

Another urgent need at this time is a new edition of the City Ordinances. Since 1892, when the last revision was made, many changes have arisen, not only in the ordinances themselves, but in the public statutes upon which they are based, until now with the adoption of a new city charter the edition in use is practically worthless. This work should be carefully and accurately conducted, and I would suggest to the council that in making up the appropriations for the year 1899, it set aside a sufficient sum of money to secure a thorough compilation, and that such a number of copies be printed as are requisite for the use of the city.

During the year the city has been brought face to face, as it never has been before, with the problem of garbage disposal, and the opening of a new year finds the problem still unsolved. Much instructive information has been acquired by those whose duty it became to investigate the methods employed in other cities, where the nuisances of public dumps have been succeeded by some one of the modern processes of incineration or reduction for the handling of garbage in large quantities. So far as my own observations go I am led to believe that while much progress has been made during the past few years in the various processes of garbage disposal, the work is to some extent still in the experimental stage. Even in the most successful plants the operators admit that improvements and alterations are necessary. But whatever process is employed the fact remains that the handling of garbage in large quantities is attended by certain objectionable features, chiefly the production of offensive and unsanitary odors. This

precludes the concentration of any considerable amount of garbage, either for shipment or treatment, in the vicinity of human habitations. Yet while authorities differ in the opinions they hold relative to the comparative merits of the numerous systems now in use, it is generally admitted that the most practical method is to collect the garbage and general refuse at one time and ashes at another. "The ideal system of collection and disposal," says Dr. Woodward, health officer of the District of Columbia, "will probably be the collecting in a cart body and transporting by rail outside the city, and until the chemist and the engineer have improved present methods I do not believe anybody will make a fortune out of garbage reduction." It is not improper to state that the local board of health favors the process of simple cremation. At all events the subject is a most important one, and whatever steps the city may take in the future in regard to it should be on very conservative lines. If the time has come when Manchester must build a crematory to take care of its refuse and garbage, in order to protect the public health, none but the most successful and satisfactory as well as the most economical system should be adopted. I am informed that the board of street and park commissioners will ask the common council for an appropriation for installing a garbage disposal plant this year.

In a general way I can say that the public buildings owned by the city are, in the main, in good condition and in need of no more than ordinary attention. There have been erected during my two terms as mayor, to meet the urgent demands for additional public school accommodations, five new school buildings, yet so great is the increase of children seeking an education in our public schools that the school board informs this city government that there is occasion for still another schoolhouse in the Lincoln school district. The attendance at nearly all of the schools is in advance of any former years and some of the buildings are today overcrowded. Since the new high school building was opened in September, 1897, the attendance has increased from 328 to 447, a gain of 119 in one year and one term, while six extra teachers have been added to its corps. The total attendance in all of the public schools of the city is fully 6,000, an increase of nearly 2,000 since 1890, when free text-books were first placed in the schools.

The city library building is, perhaps, the most poorly adapted for the uses to which it is put of any that the city has under its supervision, yet it seems to me that it would be a waste of money to attempt any large outlays in improving or enlarging the present structure. Manchester has few calls for public improvements as strong as that for a new public library building, modern in all respects, with a commodious reading-room that should be kept open on Sundays as well as upon week days, and located upon a site where the best of light is afforded, as is far from being the case at the old building. Here, indeed, is an object worthy of the consideration of citizens of large means and broad public spirit who can afford to employ their wealth for the betterment of the whole community.

There is one matter that has been strongly impressed upon my attention during my experience in the mayor's office as calling for a reform, and that is the matter of the buying of horses for the use of the city. The present method is all wrong, as every intelligent citizen conversant with it is aware. There should be a general purchasing agent of horses for all of the city departments, and the buying of horses should be under his sole direction. As it is now and always has been, green horses, as a rule, have been bought and placed in service in the fire department before they were properly acclimated and fit for duty. Many a good and valuable horse has been ruined under this practice. In my judgment no horse should be assigned to active fire duty until he has been fully acclimated and conditioned by steady work in some of the other city departments. There should be several emergency horses always on hand ready to be transferred at immediate notice from either the street department or the city farm to the fire department, and such authority should be lodged in one responsible head, and that head should be the purchasing agent. Money is annually thrown away by the city of Manchester under the present system of horse buying for the fire department, and it always will be until horses are seasoned and hardened by moderate work outside the department before they are put into the rapid, exacting labor of running to fires. And wherever horses are assigned they should remain until the judgment of the authority that placed them there sees fit to change them. It does not seem to me necessary to go outside of official circles to secure a purchasing agent, or that the selection of one should cause any additional expense to the city.

In entering upon the duties of mayor for a third term I am more deeply impressed than ever before with the large responsibilities and exactions upon the time and consideration of the executive, and I can only say that whatever I may have gained by experience and knowledge of municipal management during the past four years will be as faithfully and conscientiously applied to the work of the future as my ability and strength will permit. I am profoundly grateful for the renewed confidence of the people in my stewardship, and sincerely trust that I may prove worthy of the uncommon honor that has been conferred upon me. I would like to see the coming two years the best two years in its history for the welfare of our beloved city, and I beseech your able and cordial co-operation in helping to make them so, in so far, at least, as the municipal life of the community is concerned. We are at all times the servants of the whole people, and it is their interests that we should carefully and steadfastly guard despite anything else that may arise to sway our opinions or judgment. Before our term of office expires the nineteenth century will have passed into history and the twentieth century will have begun. May we all unite our best and truest efforts to make the advent of so memorable an epoch one of credit and honor for the city of Manchester, and may her fair name stand untarnished through any official acts of ours when we have finished our work.

WILLIAM C. CLARKE,

Mayor.

REPORT
OF THE
BOARD OF WATER COMMISSIONERS.

BOARD OF WATER COMMISSIONERS, 1899.

WILLIAM C. CLARKE, *Mayor, ex officio.*

ALPHEUS GAY, term expires January, 1905.

FRANK DOWST, term expires January, 1906.

HARRY E. PARKER, term expires January, 1903.

HENRY CHANDLER, term expires January, 1904.

CHARLES H. MANNING, term expires January, 1901.

CHARLES T. MEANS, term expires January, 1902.

OFFICERS.

ALPHEUS GAY, *President.*

HENRY CHANDLER, *Clerk.*

CHARLES K. WALKER, *Superintendent.*

ARTHUR E. STEARNS, *Registrar.*

JOSIAH LASELLE, *Engineer at Low Service Pumping Station.*

H. A. DONAWAY, *Engineer at High Service Pumping Station.*

REPORT OF THE BOARD OF WATER COMMISSIONERS.

To the Honorable the City Councils of the City of Manchester, N. H.:

GENTLEMEN,—The Manchester Water Board herewith present their twenty-eighth annual report for the year ending December 31, 1899, with the detailed report of the superintendent during the same period.

FINANCIAL CONDITION.

Receipts and expenditures for the year have been as follows:

Balance unexpended December 31, 1898.....	\$33,928.08
Received from water rentals, etc.....	115,336.41
Received from hydrant rentals.....	18,100.00
Total	<u>\$167,364.49</u>
Amount paid for current expenses.....	\$30,263.07
Construction	20,396.06
Interest on bonds, 1899.....	39,551.00
Hydrant rentals set aside for sinking fund.....	18,100.00
Set aside for sinking fund, for payment of water bonds, state law	5,000.00
	<u>113,310.13</u>
Amount on hand December 31, 1899.....	<u>\$54,054.36</u>

Respectfully submitted.

WILLIAM C. CLARKE, *ex officio*,
ALPHIEUS GAY,
CHARLES H. MANNING,
CHARLES T. MEANS,
HARRY E. PARKER,
FRANK DOWST,
HENRY CHANDLER,

Water Commissioners.

SUPERINTENDENT'S REPORT.

To the Honorable Board of Water Commissioners of the City of Manchester, N. H.:

GENTLEMEN,—The following is the report of your superintendent for the year 1899:

MASSABESIC LAKE.

The amount of water in the lake was very much below the normal this fall, and is very low at the present time, much more so than it has ever been since the present superintendent has had charge. Thirty-three and one half inches below the dam was the lowest point ever reached, and today it stands at thirty-three and one quarter inches below.

The low condition of the water in the lake has so affected the canal that the banks are mostly out of water, and an examination warrants the belief that the banks are in such firm condition that they will last for many years.

No repairs of any amount were made at the dam. Screens were constructed by the fish commissioners to prevent the fish from escaping from the lake into the brook at high water.

OLD PUMPING STATION.

No serious trouble has been experienced at the old pumping station so far as the working of the pumps is concerned. The arms to the bevel gear broke on February 8, but were replaced with a new gear and a new spider. Fortunately we had one on hand, which the Amoskeag Company fitted up and put onto the jackshaft at an expense of about \$75.

We have been short of power for pumping at this station since October 17. In the month of November, the power was sufficient to pump but a little over one half enough for the low service, and the balance was pumped by steam at the high-service station. In the month of December more was pumped by steam than by water-power.

HIGH-SERVICE STATION.

Quite an outlay was made at this place for painting. The dwelling-house, barn, and sheds were given two coats and the engine house was painted on the inside. The Hunter house, which is in connection with

AMOUNT PUMPED AT LOW SERVICE STATION.

MONTHS.	Kind of pump.	No. hours work.	No. strokes.	No. strokes per min. etc.	No. gallons pumped by Davidson.	No. gallons pumped by Wood.	Total.	Daily average.
January.....	Davidson.....	hrs. min. 422 15	523,954	20 67	79,641,008	.....	79,641,008	2,569,065
February.....	".....	369 00	450,893	20 25	68,535,736	.....	.....	.....
".....	R. D. Wood.....	50 10	67,736	22 25	.....	8,941,152	77,476,888	2,767,031
March.....	Davidson.....	407 15	507,436	20 76	77,136,272	.....	77,136,272	2,488,073
April.....	".....	378 15	476,237	20 48	72,388,024	.....	72,388,024	2,411,267
May.....	".....	418 45	521,262	20 73	79,231,824	.....	79,231,824	2,555,865
June.....	".....	464 40	571,737	20 48	86,904,024	.....	86,904,024	2,896,800
July.....	".....	490 40	577,782	20 01	87,822,864	.....	87,822,864	2,833,968
August.....	".....	494 45	575,310	19 54	87,451,680	.....	87,451,680	2,821,022
September.....	".....	464 35	523,730	18 80	79,606,960	.....	79,606,960	2,653,565
October.....	".....	403 05	417,646	17 41	63,482,192	.....	.....	.....
".....	R. D. Wood.....	14 00	17,819	20 61	.....	2,352,108	65,834,300	2,155,622
November.....	Davidson.....	282 00	257,891	15 19	39,199,432	.....	39,199,432	1,306,638
December.....	.....	217 05	206,048	15 22	31,319,296	.....	31,319,296	1,010,269
		4,876 20	5,695,511	20 99	852,713,312	1,393,260	854,006,562	2,985,577

this property, was given two coats of paint on the outside. A new ventilator was also constructed in the engine room, at an expense of \$246, to carry off the surplus heat from the pumping room.

The last of November, while the pumps were pumping into the low and high service, one of them stopped working. Realizing the necessity for immediate action, it was deemed advisable to send to the Worthington people, who manufactured the pumps, for an expert to make an examination, which they did. He immediately located the difficulty and it was repaired in two days. The old air pump having become impaired, a new one was substituted and the old one sent to New York for repairs. The Worthington expert pronounced the pumps to be in good condition and to have been well cared for.

In order to provide for any contingency which may possibly arise, why would it not be well to consider putting in a new pump, as our only dependence has been on the steam pumps since the 17th of October? It is true we have pumped about one half the water from the old pumping station, but that would not be enough to keep the reservoir full and protect the city in case of fire.

In connection with the low water, a coal famine seemed imminent at one time, but we were fortunate in getting enough to last temporarily, by paying a double price over that paid one year ago.

RESERVOIR.

*The repairs at the old reservoir were as follows: Relaying part of the paving at the south end, top-dressing the banks, painting one half mile of fence, and repairing the screens, at a total expense of about \$500. No repairs were made at the high-service reservoir.

A telegraph line was constructed from the high-service reservoir to the high-service pumping station, and a recording gauge put in, to tell the height of the water in the reservoir at any time without going to it. This gauge was made by the inventor; Mr. George E. Winslow of Waltham, Mass. The poles were taken from the Haselton land, north of Deer Neck, being cut and delivered for setting at \$1.00 per pole. The line was put in by E. M. Bryant & Co., the whole outfit costing \$1,050. This will obviate the necessity of the engineer's going to the reservoir, except occasionally, either in summer or winter. The working of this system fully meets the requirements which were expected of it.

The force mains required about the same amount of attention, each having about twelve leaks repaired.

DISTRIBUTION PIPES.

Pipes were laid in the following streets: Central, Cilley road, Cypress, Douglas, Dix, Falls avenue, Hanover, West Hancock, Oakland avenue, Mystic, Riley, Longwood avenue, Revere, and Merrimack, covering 1.12 miles of extensions. Pipes were relaid in Auburn, Beech, Elm, Cedar, Amherst, Brook, Blodget, Depot, Central, Concord, Merrimack, Man-

PUMPING RECORD, HIGH SERVICE, 1899.

MONTHS.	No. days pump- ing.	TOTAL PUMPING TIME PER MONTH.		Total number of strokes.	Average num- ber per min.	COAL IN POUNDS.				No. of gallons pumped.	Gallons pump'd per pound of coal.	Dynamic head.
		Hours.	Min.			Raising steam and banking.	Pump- ing.	Ashes and clinkers.	Total coal.			
January	16	139	00	352,975	42.3	16,491	45,307	5,329	61,798	19,501,972	430	270
February	14	128	30	325,657	42.2	15,487	41,793	4,897	57,280	17,997,636	431	270
March	15	133	30	340,780	42.6	16,282	43,084	5,126	59,306	18,824,777	437	269
April	16	123	00	310,621	42.1	13,448	39,794	5,021	53,242	17,155,659	431	269
May	17	144	33	364,122	42.0	10,492	47,392	5,708	57,884	20,139,497	425	270
June	17	158	00	396,735	41.9	10,714	50,702	5,978	61,416	21,891,172	431	270
July	17	152	30	386,308	42.2	10,630	49,314	5,945	59,914	21,381,562	434	271
August	16	142	05	357,868	41.8	9,948	45,746	5,488	55,694	19,753,746	432	272
September	17	159	00	391,559	41.8	10,574	51,601	5,981	61,575	21,682,907	425	273
October	15	132	00	331,096	40.0	8,958	42,942	5,014	51,900	18,320,280	428	274
November	15	128	40	309,199	40.0	8,184	41,392	4,817	49,486	17,044,000	413	274
December	16	132	00	304,552	38.5	9,014	41,625	4,835	50,639	16,735,069	404	274
	192	1,672	48	4,171,152	.....	140,222	540,002	64,089	680,224	230,406,277	.....	.....

340 tons of coal were used in pumping; 150.5 gallons of oil; 382 pounds of waste; 4,600 pounds of wood.

WATER PUMPED INTO LOW SERVICE OCT. 17 TO DEC. 31, 1899.

MONTHS.	No. days pump- ing.	TOTAL PUMPING TIME PER MONTH.		Total number of strokes.	Average num- ber per min.	COAL IN POUNDS.				No. of gallons pumped.	Gallons pump'd per pound of coal.	Dynamic head.
		Hours.	Min.			Raising steam and bank'g.	Pump- ing.	Ashes and clinkers.	Total coal.			
October.....	8	76	25	212,210	46.3	4,220	15,313	1,839	19,533	11,777,652	772	147
November.....	15	211	50	570,426	44.9	8,238	41,596	4,755	43,834	31,646,287	759	147
December.....	15	316	16	760,940	40.1	14,804	61,220	7,210	76,024	42,037,432	689	182
	38	604	31	1,543,576	.....	27,262	118,129	13,804	145,391	85,461,371	.....	.....

72½ tons of coal were used in pumping; 50 gallons of oil; 88 pounds of waste; 2,070 pounds of wood.

chester, Hanover, Laurel, and Spruce streets, in all, 5,887 feet. There were laid over this year in Elm street 1,961 feet of 14-inch cast-iron, so that Elm street is now all relaid with cast-iron pipe, and in Beech street 2,948 feet of 12-inch pipe. There are today about five miles of cement pipe, nearly four miles of it on the supply and force main, which is 20-inch pipe. It will cost to relay this with cast-iron \$60,000 or more. This year's supply of pipe was bought before the rise and the advance has since been about \$8.00 per ton. The contract price this year was \$19.80 per ton for 12 and 14-inch pipe, and \$20.45 per ton of 2,240 pounds for 6-inch pipe.

A bad break occurred on Chestnut street, corner of Hanover, on March 27, causing damage to the ten-footers, which cost the water-works nearly \$500 to settle for and make repairs. The break was in a piece of 4-inch cement pipe on Chestnut street, and the ground was frozen so hard the water did not come up in the street but found its way into cellars underneath the frozen ground. Fortunately, the leak was discovered and the water shut off before reaching the cellars on Elm street.

As a whole, very little trouble has been had with the distribution pipe. There are about ninety miles of cast-iron pipe, which means about 45,000 lead joints, where leaks are most liable to occur, besides the services, which cause occasional trouble.

As it will be twenty-five years next March since your present superintendent took charge of the water-works, perhaps it will be well to state the condition of the works at that time, and the changes that have since taken place.

When I was elected, March 1, 1875, I appeared before the water commissioners, of whom there remains only the president, Hon. Alpheus Gay, and was told by them that the income of the water-works should be spent on extensions and keeping the works in repair, and that the city would take care of the interest. The next year, 1876, we paid \$24,000 towards the interest, and from that time on have paid most of the interest, in addition to making the pipe extensions, improvements, and all repairs, without calling on the taxpayers for a single dollar.

After having an introduction to Mr. J. T. Fanning, who was then the engineer, I was taken to the pumping station, where Mr. C. C. Cole was in charge. He was then pumping into the present reservoir and also letting water into the Amoskeag Company's reservoir, which was supplied by the city until the month of October, 1875; this being in compensation for water used by the city from the Amoskeag Company's reservoir.

In 1875 the water pipes were laid to Piscataquog village. There were pumped that year 1,100,000 gallons every twenty-four hours, and until 1886 the average daily pumpage was not over 1,200,000 gallons. In the year 1886, we began to increase to 1,500,000 gallons daily, and in 1898 to 2,500,000, in addition to 500,000 pumped daily into the high-service reservoir, making the daily average 3,000,000 gallons, which has been maintained during the year 1899.

In 1875, Colias avenue was graded and there was no fence around the present reservoir.

In that year we had 215 hydrants for which \$60 per year was credited by the city to the water-works, amounting to \$12,900. There were 675 services and 23 miles of distribution pipes. These 215 hydrants were the source of as much trouble as we have had with our hydrants in any year since. In the winter of 1874-75, which was an unusually cold winter, service pipes laid five feet deep were frozen and it cost about \$1,100 to thaw them out.

Today we have a little over ninety-five miles of distribution pipes, 5,427 services, and 737 hydrants.

In the year 1880 the water in Massabesic lake was so low that the flow was insufficient to keep the reservoir full and the channel was lowered at the outlet enough to draw the lake down one foot. This lowering of the channel was supposed to be sufficient to give a continuous flow from the lake forever after, but the unexpected has happened and we are now confronted with the fact that water will not pass out from the lake in sufficient quantity to run the pumps and supply the needs at the old reservoir.

In 1876 we began to lay cast-iron pipe. We had at that time a little over twenty-seven miles of wrought iron and cement pipe. Today we have about five miles of cement pipe, having replaced about twenty-two miles of cement pipe with cast-iron pipe.

In 1881 water pipes were laid to Amoskeag. The water rates were revised in 1885. Hydrant rates were reduced to fifty dollars per hydrant and meter rates from twenty cents to fifteen cents per one hundred cubic feet. In 1888 hydrant rates were reduced to forty dollars per year. Since 1893 the city has credited the water-works with twenty-five dollars for each hydrant, which amount has been credited to the sinking fund for the redemption of water bonds at maturity.

The pumps first put in by the water-works were made by the R. D. Wood Company, and used exclusively until 1886, when a new Davidson pump was added as supplementary power in case the Wood pump should become disabled. Both pumps are now in good condition and doing good service, when there is sufficient water flowing in the canal to furnish power. You are aware that when there is a full head of water in the lake it requires about seven gallons to pump one into the reservoir. Under the present low state of the water, it requires about twelve gallons to force one into the reservoir.

In the year 1893 work was begun in the establishment of a high-service plant, which was completed in September, 1894, at which time water was pumped into the new high-service reservoir on Oak Hill and also into the old low-service reservoir, that being the year of limited waterfall, and the steam pumps saved the city from a water famine.

Land bordering on the lake has been purchased at various times so that today the city owns about sixty-five per cent of the shore.

The above is a condensed statement of the water-works from 1875 to the present time. The various yearly reports show in full what has been done.

Your superintendent is pleased to say that in all the years that have passed since his connection with this office he has had the undivided support of the commissioners, for which he is most thankful, and it will ever be remembered as one of the pleasant recollections in his connection with the water-works.

RAINFALL AT HIGH SERVICE STATION, 1899.

DAY.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	*.67	*.02							1.45		.80	
2					.79				4.38		.09	.11
3			*.47						.05			
4		*.38	*.14						.07		.44	.07
5			.68					.08				
6	*.51						.03					
7		*.14	*.48			.26	.31			.03		
8		*.39		*.73			.77		.12			.01
9			*.02	.02			.53			.27		
10							.02	.71				
11					.08			.32				
12		*.03	.21	*.09							.73	.21
13		*.77	.10				.11		.12			
14	*.88		*.02	.17	.11	.02						
15			*.78			.36					.06	.57
16			.10	*.51		.15	.71					
17	.60					.15						
18					*.02		.06			.56		.02
19		.33	.98		.11	.02						.07
20			*.18	.05		.52			1.24	.23		
21					.14	.17			.56			
22		.03	*.37						.02		.13	
23			*.82					.06		.03		.12
24	.22							.03	.01			.06
25	*.44					.15	.22					.21
26			*.20	.31			.85		.16			
27		*.29										
28					.33	.51				.10		
29			.38		.07	.43	.05			.07		
30							.29		.12			
31			*.06							.02		
	3.32	2.38	5.99	1.88	1.65	2.59	3.95	1.20	8.30	1.31	2.25	1.45

Total rainfall for year, 36.27 inches.

* Snow melted.

1895. Total rainfall, 42.06 inches.

1896. Total rainfall, 38.41 inches.

1897. Total rainfall, 49.78 inches.

1898. Total rainfall, 47.15 inches.

1899. Total rainfall, 36.27 inches.

The income from the sale of water for 1899 has been as follows:

Received for water by rate.....	\$28,063.34
for water by meter.....	85,764.80

Received for building purposes.....	\$246.80	
from fines	363.80	
		<u>\$114,438.74</u>
Received for old cement pipe.....	\$141.00	
for labor and pipe sold.....	86.82	
from Manchester Mills, 6-inch pipe....	106.50	
from Suncook Water Co., stop boxes...	9.20	
from Chadwick Lead Co. (freight bill)	6.97	
Manchester Street Railway, repairing hydrant	21.85	
from St. Marie church, service pipe, 2-in	28.25	
		<u>400.59</u>
Received from sale of bananas (from water break)	\$45.50	
from N. H. Ins. Co., returned premium	11.25	
from Asa Haselton, rent of farm.....	50.00	
from S. F. McDonald, rent.....	84.00	
from Massabesic Grange, rent.....	8.33	
from V. Rosen, Currier & Cox building	35.00	
from sale of two sheds.....	1.00	
from sale of Gooden shed.....	2.00	
from S. G. Prescott, two buildings....	210.00	
from Sarah Gilbert, rent of land.....	2.00	
from F. Brown, lease.....	1.00	
from G. G. Griffin, lease.....	1.00	
from H. A. Boone, hay and building...	15.00	
from Charles Spofford, hay and apples	16.00	
from Charles Spofford, hay on Canfield farm	15.00	
		<u>497.08</u>
		<u>\$115,336.41</u>
Received from hydrant rentals.....		18,100.00
Total received		<u>\$133,436.41</u>
Abatements, \$1,032.53.		
Amount on hand December 31, 1898.....	\$33,928.08	
received for water, etc.....	115,336.41	
received from hydrant rentals.....	18,100.00	
		<u>\$167,364.49</u>
Amount paid for current expenses.....	\$30,263.07	
paid for construction expenses.....	20,396.06	
Interest on bonds, 1899.....	39,551.00	
Hydrant rentals set aside for sinking fund.....	18,100.00	
State Law, 1897, bonds set aside for sinking fund	5,000.00	
		<u>113,310.13</u>
Amount on hand December 31, 1899.....		<u>\$54,054.36</u>

CLASSIFICATION OF ACCOUNTS FOR 1899.

Superintendence, repairs, and renewals.....	\$20,943.03	
Stationery and printing.....	224.93	
Office and incidental expenses.....	531.58	
Pumping expenses, low-service.....	1,902.63	
Pumping expenses, high-service.....	4,482.23	
Repairs to dam, canal, and reservoir.....	771.94	
Repairs to buildings	1,406.73	
Total current expenses, 1899.....		\$30,263.07
Service pipes	\$1,926.38	
Distribution pipes	13,033.76	
Fire hydrants and valves.....	1,145.66	
Meters	1,469.02	
Lands	1,625.00	
Pumping machinery and buildings.....	1,196.24	
		20,396.06
Total expenses, 1899.....		\$50,659.13
Sinking fund, fire hydrants.....	\$18,100.00	
Sinking fund, water bonds.....	5,000.00	
		23,100.00
		\$73,759.13

Construction Expenses.

Land and water rights.....	\$150,409.00
Dam, canal, penstock, and races.....	101,399.16
Pumping machinery, pump house, and buildings	177,568.43
Distribution reservoir	117,697.90
Force and supply mains.....	89,769.02
Distribution pipe	608,187.19
Fire hydrants and valves.....	61,583.78
Meters and fixtures.....	57,766.32
Service pipes	76,059.07
Grading and fencing.....	17,470.39
Tools and fixtures	10,649.35
Boarding and store houses.....	919.36
Roads and culverts.....	4,405.20
Supplies	550.39
Engineering	22,176.19
Livery and traveling expenses.....	2,856.64
Legal expenses	563.79
Total	\$1,500,031.18

Current Expenses.

Superintendence, collecting, and repairs.....	\$349,310.51
Stationery and printing.....	7,696.34

Office and incidental expenses.....	\$33,955.91	
Pumping expenses at low-service.....	57,827.57	
Pumping expenses at high-service.....	23,082.19	
Repairs to buildings	5,614.86	
Repairs to dam, canal, and reservoir.....	6,201.89	
Total		\$483,689.27
Interest	\$40,678.51	
Highway expenditures	14,000.53	
		<u>54,679.04</u>
Total amount of bills approved to date.....		\$2,038,399.49
Interest, discount, and labor performed on high- way, transferred, and tools and materials sold	\$71,007.99	
Current expenses to December 31, 1899.....	483,689.27	
		<u>554,697.26</u>
Total cost exclusive of interest and current expenses		\$1,483,702.23
Interest and discount to December 31, 1898....	\$922,997.01	
Interest for 1899.....	39,551.00	
		<u>\$962,548.01</u>
Total to December 31, 1899.....		\$962,548.01

AMOUNT OF WATER BONDS ISSUED TO DECEMBER 31, 1899.

Issued January 1, 1872, rate 6 per cent, due January 1, 1902	\$100,000.00
January 1, 1887, rate 4 per cent, due January 1, 1907	100,000.00
July 1, 1890, rate 4 per cent, due July 1, 1910.....	100,000.00
January 1, 1892, rate 4 per cent, due January 1, 1912	100,000.00
August 1, 1893, rate 5 per cent, due August 1, 1913..	100,000.00
November 1, 1893, rate 4½ per cent, due November 1, 1913	100,000.00
October 1, 1894, rate 4 per cent, due October 1, 1914	50,000.00
July 1, 1895, rate 4 per cent, due July 1, 1915.....	100,000.00
December 16, 1895, rate 4 per cent, due December 16, 1915	50,000.00
January 1, 1897, rate 4 per cent, due January 1, 1917	100,000.00
	<u>\$900,000.00</u>

SINKING FUND.

1893	\$12,750.00
1894	13,925.00
1895	15,800.00
1896	16,800.00
1897	17,175.00
1898	17,675.00
1898	5,000.00
1899	5,000.00
1899	18,100.00
Total	<u>\$122,225.00</u>

STATEMENT OF RECEIPTS.

Year.	Total.	Hydrant rent.	Water by rate.	Water by meter.	Received for building purposes.	Fines.	Labor, pipe, and mate- rial sold.	Rentals and buildings sold.	Number of meters.
1872	\$573.61	.....	.....	.....	.....	.....	\$573.61	.....	.....
1873	2,097.60	{	\$1,692.69	\$190.84	.....	\$14.00	200.07	.....	8
1874	32,154.07	{ \$22,425.00	7,987.27	1,436.56	\$119.10	104.18	699.85	.....	98
1875	29,223.60	13,095.00	10,292.13	3,348.11	122.13	120.59	2,245.64	.....	160
1876	39,028.47	16,320.00	15,900.63	6,305.81	72.32	180.16	249.55	.....	166
1877	43,823.30	17,475.00	18,064.51	7,783.09	136.10	233.04	131.56	.....	202
1878	48,874.26	17,970.00	20,255.97	10,090.25	83.60	232.82	241.62	.....	226
1879	53,143.17	18,165.00	21,610.13	12,732.93	81.60	240.64	303.87	.....	251
1880	57,655.25	18,300.00	23,795.96	14,794.34	79.59	210.39	465.06	\$10.00	280
1881	60,215.62	18,780.00	25,336.18	15,554.98	105.60	223.99	203.87	11.00	310
1882	67,630.13	20,130.00	26,803.06	19,898.69	146.65	197.49	443.24	11.00	371
1883	73,458.20	20,520.00	28,838.24	23,431.20	314.65	208.04	125.07	21.00	404
1884	75,580.08	21,350.00	31,724.07	21,329.75	195.10	231.96	738.20	11.00	446
1885	80,404.12	18,900.00	33,597.02	27,425.35	102.57	186.80	181.45	11.00	486
1886	75,129.99	19,750.00	33,062.11	21,573.45	287.40	130.80	320.23	6.00	615
1887	80,518.17	20,437.50	33,497.21	25,277.09	351.70	119.20	819.47	16.00	739
1888	85,643.82	21,000.00	33,864.78	29,838.82	543.50	149.80	243.62	3.00	842
1889	86,700.46	18,240.00	34,140.99	33,596.05	361.95	153.20	155.27	53.00	951
1890	90,463.37	19,880.00	32,431.10	37,009.80	649.90	151.80	298.77	42.00	1,135
1891	76,605.23	4,590.00	30,588.79	40,479.25	494.80	160.40	200.99	91.00	1,313
1892	83,474.79	5,000.00	31,344.24	46,139.35	416.00	168.40	139.80	267.00	1,608
1893	104,170.08	12,750.00	32,603.59	58,103.20	1,033.75	159.60	339.38	180.56	1,895
1894	110,210.29	13,925.00	32,176.28	62,501.35	697.80	227.40	334.82	347.64	2,182
1895	118,374.50	15,800.00	32,903.99	67,465.90	808.20	330.40	768.17	327.84	2,520
1896	128,907.03	16,800.00	32,540.03	77,610.10	638.48	302.80	440.12	575.50	2,865
1897	125,719.17	17,175.00	30,647.17	76,148.60	331.85	321.80	627.08	467.67	3,134
1898	131,184.08	17,675.00	29,409.58	80,643.30	187.00	359.80	441.90	2,467.50	3,340
1899	133,436.41	18,100.00	28,063.34	85,764.80	246.80	363.80	400.59	497.08	3,502

1878, meter rate was changed. 1884, hydrant rates reduced. 1886, meter and other rates reduced. 1889, hydrant rates reduced. 1891 and 1892, received only part of hydrant rent, and nothing from water-troughs or street sprinklers. 1893, hydrant rent and water-closets rate reduced.

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

1872, supplies and materials sold.....	\$573.61
1873, supplies and materials sold.....	177.07
accrued interest on water bonds sold.....	193.26
accrued interest on state bonds sold.....	146.00
water rents	1,920.53
1874, supplies and materials sold.....	607.89
March 12, highway expenditures transferred from water account	14,000.53
March 17, interest and discount transferred from water account	12,347.25
September 1, interest and discount transferred from water account	22,361.74
water and hydrant rent.....	30,233.54
December 29, interest transferred.....	4,566.25
1875, water and hydrant rent.....	27,119.15
sundry items	2,104.45
1876, water and hydrant rent.....	38,879.47
sundry items	149.00
1877, water and hydrant rent.....	43,691.74
sundry items	131.56
1878, water and hydrant rent.....	48,632.64
sundry items	241.62
1879, water and hydrant rent.....	52,839.30
sundry items	303.87
1880, water and hydrant rent.....	57,180.19
sundry items	475.06
1881, water and hydrant rent.....	60,000.75
sundry items	214.87
1882, water and hydrant rent.....	67,175.89
sundry items	454.24
1883, water and hydrant rent.....	73,312.13
sundry items	146.07
1884, water and hydrant rent.....	74,830.58
sundry items	749.20
1885, water and hydrant rent.....	80,211.67
sundry items	192.45
1886, water and hydrant rent.....	74,803.76
sundry items	326.23
1887, water and hydrant rent.....	79,682.70
sundry items	835.47
1888, water and hydrant rent.....	85,397.20
sundry items	246.62
1889, water and hydrant rent.....	86,492.19
sundry items	208.27

1890, water and hydrant rent.....	90,122.60
sundry items	340.77
1891, water and hydrant rent.....	76,313.24
sundry items	291.99
1892, water and hydrant rent.....	83,067.99
sundry items	406.80
1893, water rents	90,900.14
sundry items	519.94
1894, water rents	95,602.83
sundry items	682.46
1895, water rents	101,478.49
sundry items	1,096.01
1896, water rents	111,091.41
sundry items	1,015.62
1897, water rents	107,449.42
sundry items	1,094.75
premiums on bonds.....	6,248.00
1898, water rents	110,599.68
sundry items	2,909.40
1899, water rents	114,438.74
sundry items	897.67
	<hr/>
	\$2,040,724.26

METERS.

The number of meters set during the year has been one hundred sixty-two (162).

Total number of meters now in use, thirty-five hundred two (3,502).

The number of applications for water has been one hundred (100).

Total number of applications to date, fifty-five hundred seventy-three (5,573).

SERVICE PIPES.

One hundred two (102) service pipes have been laid this year, as follows:

101 1-inch diameter.....	2,451.0 feet
1 1½-inch diameter.....	32.5 "
102	<hr/>
	2,483.5 feet

SERVICE PIPES RELAID.

3 ½-inch diameter	56.3 feet to 1-inch diameter.....	55.0 feet
93 ¾-inch diameter	2,567.9 " to 1-inch diameter.....	2,487.2 "
18 1-inch diameter	673.0 " to 1-inch diameter.....	654.3 "
1 1-inch diameter	17.5 " to 2-inch diameter.....	18.0 "
1 1¼-inch diameter	17.5 " to 2-inch diameter.....	17.5 "
1 1¼-inch diameter	58.3 " to 1-inch diameter.....	61.0 "
1 4-inch diameter	61.0 " to 6-inch diameter.....	108.0 "
117	<hr/>	<hr/>
	3,451.5 feet	3,401.0 feet

Fifty-four hundred sixteen (5,416) service pipes have been laid to December 31, 1899, as follows:

20 ½-inch diameter.....	412.6 feet
1,333 ¾-inch diameter.....	33,725.3 "
3,921 1-inch diameter.....	99,878.3 "
19 1¼-inch diameter.....	800.2 "
26 1½-inch diameter.....	837.5 "
71 2-inch diameter.....	2,249.0 "
2 2½-inch diameter.....	63.0 "
5 3-inch diameter.....	89.8 "
11 4-inch diameter.....	244.5 "
8 6-inch diameter.....	

5,416

138,300.2 feet

26.2 miles of service pipe.

The following streets are where cement-lined pipe was taken out and relaid with cast-iron:

STREET.	LENGTH IN FEET.				GATES.	LOCATION.
	14 in.	12 in.	8 in.	6 in.	6 in.	
Amherst				46	2	Corner Beech.
Auburn				57	1	Corner Elm.
Beech		2,948	37	8		Lowell to Auburn.
Brook				97	1	Corner Elm.
Blodget				37	1	Corner Elm.
Cedar				45	1	Corner Elm.
Cedar						
Central					2	Corner Beech.
Concord				47	2	Corner Beech.
Depot	277			22		Corner Elm.
Elm	1,951					Depot to Valley.
Granite				57		Corner Elm.
Hanover				67	1	Corner Beech.
Laurel				40	2	Corner Beech.
Manchester				47	2	Corner Beech.
Manchester				37		Corner Pine.
Merrimack				57	1	Corner Beech.
Spruce					2	Corner Beech.
Spruce				10		Corner Elm.
	2,228	2,948	37	674	18	

Total, 5,887 feet, or 1.11 miles.

300 feet 6-inch relaid with 8-inch cast-iron.

374 feet 6-inch relaid with 6-inch cast-iron.

PIPES LAID AND GATES AND HYDRANTS SET IN 1899.

STREET.	PIPE LAID; NO. FEET.		GATES SET.				Hydrants.	LOCATION.
	2 in.	6 in.	14 in.	12 in.	8 in.	6 in.		
Beech.....				3				South side Manchester, north and south side Lake ave.
Central		206						East of Beacon.
Cilley	763				1			West of Mammoth (3-inch connection).
Cypress		404				1	1	South of Lake ave.
Dix		254				1		East of Taylor.
Douglas		83				1	1	Corner Turner.
Elm			1					North side Auburn.
Hancock, West.....		109				1	1	East of shoe shop.
Hanover.....		641				1	1	East of Merrimack.
Longwood		933				1	1	West of Woodbine.
Laurel		8					1	Corner Belmont.
Merrimack		286				2	1	East of No. 538.
Merrimack		259					1	West of Hanover.
Mystic		289				1		West of Beech.
Oakland		590				1	1	West of Revere.
Old Falls avenue		338				1	2	North of Old Falls road.
Orange						1		West of Belmont.
Revere		313				1		Oakland to Longwood.
Riley.....		182					1	Southward.
Spruce.....		9					1	Corner Cypress.
Turner.....					1			Opposite new Print Works.
Valley		29						Corner Elm.
Woodbine		15						North to Longwood.
Garden, bet. Laurel and Merrimack		250				2		
	763	5,158	1	3	2	15	13	

Total feet laid, 5,921, or 1.12 miles.

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1899.

STREETS.	Length and size of cement-lined pipe laid.						Length and size of cast-iron pipe laid.						Gates set.						Air Valves.	Hydrants.			
	20 in. 14 in. 12 in. 8 in. 6 in. 4 in.						20 in. 14 in. 12 in. 10 in. 8 in. 6 in. 4 in.						20 in. 14 in. 12 in. 10 in. 8 in. 6 in. 4 in.										
	20 in.	14 in.	12 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.			6 in.	4 in.	
Pumping station*..							4216			153		43		2				2		2	2		2
Force main, C. I. J.	1226						133			1226				2									
Force main, C. J....	6738				63		324					75		2						3		2	3
Supply main †	8049				126		361			28				1				1		5		1	3
Adams, north.....												1308								3			
Appleton												1694								3			4
Amberst.....											1010	4394						2		8			13
Arlington												1765								3			4
Ash												750	954							3	2		1
Ashland										2264										3			
Auburn.....											1010	3743							1	7			13
Baker.....												2624								5			5
Bay												1496								5			1
Beacon												1785							1	1			1
Bedford.....					24							768								4			3
Beech.....					10					9347		5103	63				14		6	2	1		8
Belmont.....												1111	6121							2	10		8
Bell												883								3			3

Birch	25	.....	.....	.....	476	.....	.....	.....	2	.....	2	.....	2
Budget.....		.....	.....	.....	1534	.....	.....	.....	2	.....	2	.....	4
Bridge .....		.....	.....	.....	5482	.....	.....	.....	10	.....	10	.....	21
Bridge (old).....		.....	.....	.....	282	.....	.....	.....	2	.....	2	.....	1
Brook .....		.....	.....	.....	3725	.....	.....	.....	7	.....	7	.....	9
Brown avenue .....		.....	.....	.....	2892	.....	.....	.....	3	.....	3	.....	3
Buzzell .....		.....	.....	.....	156	.....	.....	.....	1	.....	1	.....	.....
Byron .....		.....	.....	.....	1018	.....	.....	.....	2	.....	2	.....	2
Calef road.....		.....	.....	.....	2056	.....	.....	.....	1	2	.....	.....	2
Canal.....	154	.....	.....	46	4620	.....	.....	.....	7	.....	7	.....	2
Candia road.....		.....	.....	7201	2873	.....	.....	.....	3	.....	3	.....	2
Canton .....		.....	.....	.....	771	.....	.....	.....	1	.....	1	.....	1
Carpenter .....		.....	.....	.....	1404	.....	.....	.....	2	.....	2	.....	1
Cass .....		.....	.....	.....	495	.....	.....	.....	2	.....	2	.....	.....
Clarke .....		.....	.....	.....	1949	.....	.....	.....	3	.....	3	.....	4
Clay .....		.....	.....	.....	1349	.....	.....	.....	2	.....	2	.....	4
Cedar.....		.....	.....	.....	1010	3556	.....	.....	1	7	.....	.....	12
Central	72	.....	.....	.....	1120	5408	.....	.....	2	9	.....	.....	15
Chestnut.....	115	.....	.....	.....	1527	3642	1809	.....	6	12	8	.....	8
Concord .....		.....	.....	.....	1010	4396	.....	.....	1	8	.....	.....	14
Church .....		.....	.....	.....	147	.....	.....	.....	.....	.....	.....	.....	.....
Cilley .....		.....	.....	.....	763	.....	.....	.....	1	.....	1	.....	.....
Cypress.....		.....	.....	.....	1716	.....	.....	.....	4	.....	4	.....	3

* Fletcher's Crossing. † From old reservoir by Mammoth road and Massabesic street to Lake avenue.

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1899.—Continued.

STREETS.	Length and size of cement-lined pipe laid.					Length and size of cast-iron pipe laid.					Gates set.					Air valves.	Hydrants.
	20 in.	14 in.	12 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.				
Dean												284				2	2
Dearborn												670				1	1
Depot.....							835					29		1		2	2
Derry.....												147					
Dix												254				1	
Dutton.....												471					1
Elm							12642	4134				347		17	4	10	1
East High.....												2834				4	6
Elm avenue												384					
Everett.....												385				1	
Foster avenue												248				1	
Franklin												1130				4	1
Glenwood												931				3	2
Gore												1910				5	4
Granite	370			127			186				290	770		2		3	4
Green.....												920				3	2
Grove, M. corp												231					
Grove, E. Man												1735				5	4

Hall.....	1446					3	2
Hall road.....	1118					1	....
Hancock.....	1181					1	3
Hanover.....	131 1010				1 3	11	16
Hanover road	2214				1	1	2
Harrison	4682					10	11
Harvard	2148					4	3
Hayes avenue.....	472					1	1
Hayward	5887					8	11
Hazel	434					1	....
High	858					3	....
Higland Park.....	1040					1	1
Hollis.....	756					3	3
Hosley.....	532					1	....
Jane	418						....
Jewett	1701 527				2	2	3
Jones.....	471					1	....
Josselyn	539					1	1
Kidder.....	750					3	3
Kidder's court.....	57 185					3	1
Lake avenue	3170			3		8	1 11
Langdon	460					2	2
Laurel.....	5748					10	13
Liberty	657					1	1

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1899.—Continued.

STREETS.	Length and size of cement-lined pipe laid.					Length and size of cast-iron pipe laid.					Gates set.					Air valves.	Hydrants.	
	20 in.	14 in.	12 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.					
Longwood.....												933					1	1
Lovering												364						.....
Lowell.....			3448	32	45				4122			49			7		10	1
Malvern.....																	3	.....
Mammoth road							7724					95				4	7	4
Mammoth rd., new												60						1
Manchester												1010					2	8
Maple					20												3	1
Market									1437			1006						.....
Massabesic.....												962					3	3
Mead							915					250			2			.....
Mechanic.....												362					1	.....
Merrimack												788					2	3
Merrim'k to Laurel												5785				2	13	19
Middle.....												250					2	.....
Mitchell												768					2	2
Monroe												318					1	.....
Morrison.....												421					1	1
												370						.....

Myrtle						938	4319				1	9	13
Mystie							289					1	
Nashua	57							477				1	
Nelson							578					2	2
Norfolk							105					1	
North						1486	81		1			1	4
North River road							2939	1380			3	1	6
Nutt road							800	547			1	1	1
Oakland								590				1	1
Old Falls road								488					1
Old Falls avenue								338				1	2
Orange							930	4039			1	9	13
Orchard avenue								375				1	1
Page								1653				2	4
Pennacook								1570				2	4
Pearl							1012	4076			2	9	14
Pine							7516	2089			13	5	6
Pleasant								1076				3	4
Porter								364				1	
Prescott								318				1	1
Prospect								4640			1	9	13
Prout avenue								300				1	
Ray								484				1	2
Revere								313				1	

			3641	1923	2086		246		1	1	2	7	11
Valley							39	340				2	1
Vine							682					1	1
Vinton							3100	1092				6	5
Walnut	14	30						351				2	
Washington							736					2	2
Water							3338					6	8
Webster							10	292				1	
Welch avenue							529					2	
Weston							10				11	1	1
Wilson					5623							2	
Willow								550				1	
Woodbine							419					1	1
Woodland avenue							1212						3
Young							1879					2	2
WEST SIDE RIVER													
A							836					1	3
Abbott							133						
Adams							410					1	2
Alsace							801					3	
Amoskeag road					2922	14	10				2	1	1
Amory (north)							27					2	3
Amory (south)							47					4	7
Avon							420					1	1
B							606					1	

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1899. — *Continued.*

STREETS.	Length and size of cement-lined pipe laid.				Length and size of cast-iron pipe laid.								Gates set.				Air valves.	Hydrants.			
	20 in	14 in.	12 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.			10 in.	8 in.	6 in.
Barr														260						1	
Bartlett.....												1801	1							1	
Bath													517							1	2
Beaumont													3579							4	
Bedel													326								
Bennington													48							1	1
Bismarck.....													1036							1	1
Blaine													1573							3	3
Bowman													835	623						2	1
Boynton road												2739	2287							1	2
Bridge.....													580							1	
Brock.....													242							1	
C													30							1	1
Carroll.....													882							1	1
Cartier.....													3288							4	2
Charlestown ave													530							1	1
Cleveland.....													1482							2	1
Clinton													563							2	2

[illegible]

Omega						643		1	1
Parker					5	1048			2
Piscataquog river			477					2	1
Prince.....					598			1	2
Putnam.....					658			2	2
Quiney.....						260			1
Riddle.					945			1	1
Rhannon					1975			4	...
Rockland.....					2727			4	2
School.....					995			2	3
Second.....					3379			5	5
Schiller.....					566			1	1
Schnyder.....					215			1	1
Sheridan.....					758			1	1
Sherman.....					429			1	1
Shirley Hill road					654			1	...
Sullivan.....					361	399		2	1
Third					442	357		2	1
Thornton.....					892			1	2
Tilton.....						300			1
Turner.....			1217		12	240		3	1
Varnum					80			1	1
Walker.....					1299			2	3
Warner.....					950			2	1

DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1899.

Size of pipe.	Cement-lined pipe.	Cast iron pipe.	Gates.
20-inch diameter	20,367 feet.	24,679 feet.	18
14-inch diameter	524 "	15,632 "	21
12-inch diameter	4,408 "	26,713 "	36
10-inch diameter .....	.....	27,214 "	40
8-inch diameter	104 feet.	68,282 "	98
6-inch diameter	633 "	292,869 "	620
4-inch diameter	202 "	20,140 "	60
	26,238 feet.	475,529 feet.	893

Cement-lined pipe 4.97 miles

Cast-iron pipe 90.06 "

Total pipe 95.03 miles

737 hydrants.

893 gates.

12 air valves.

LOCATION OF HYDRANTS SET IN 1899.

Cypress street, corner Cedar.

Douglas street, corner Turner.

West Hancock street, near Harvey road.

Hanover street, near 685 Hanover.

Laurel street, corner Belmont.

Longwood avenue, corner Revere.

Merrimack street, corner Hanover.

Merrimack street, near 567 Merrimack.

Oakland avenue, corner Revere.

Old Falls avenue, corner Old Falls road.

Old Falls avenue.

Riley street.

Spruce street, corner Cypress.

Uses for which water is supplied.

WATER FIXTURES, ETC.

11,991 Families, 129 boarding-houses, 15,365 faucets, 4,441 wash-bowls, 3,835 bath-tubs, 11,350 water-closets, 736 set tubs, 213 urinals, 4,001 sill-cocks, 2,771 horses, 173 cattle, 737 hydrants, 30 watering-troughs, 8 drinking fountains, 51 standpipes, 2 public urinals.

PUBLIC BUILDINGS.

1 Jail, 30 churches, 1 court house, 10 hose companies, 6 fire engines, 2 hook-and-ladder, 3 opera houses, 4 convents, 4 city hospitals, 4 cemeteries, 1 orphanage, 1 post-office, 1 city library, 6 banks, 9 hotels, 1 Masonic hall, 1 Odd Fellows' hall, 3 halls, Children's Home.

SHOPS.

58 Barber, 10 wheelwright, 20 blacksmith, 10 carpenter, 2 tinsmith, 1 copper, 3 currying, 20 plumber and gas and water pipe, 14 paint, 3 gunsmith.

STORES.

4 Auction, 35 drug, 22 jewelry, 1 fur, 3 house-furnishing goods, 20 fancy goods, 1 wholesale paper, 5 wholesale produce, 24 dry goods, 12 candy, 1 cloak, 16 millinery, 3 tea, 9 furniture, 1 wholesale grocer, 107 grocery, 6 meal, 3 hardware, 34 boot and shoe, 11 stove, 17 gents' furnishing goods, 7 book, 1 leather and shoe-finders, 3 music, 3 upholstery, 9 undertakers, 5 sewing-machine, 1 feather-cleaner, 1 rubber.

SALOONS.

16 Dining, 7 billiard, 47 liquor.

MISCELLANEOUS.

6 Clubrooms, 3 bleacheries, 35 laundries, 4 ice-houses, 10 photographers, 1 Mercy Home, 2 old ladies' homes, 1 soldiers' monument, 1 Turner hall, 4 fountains, 2 trust companies, 1 city farm, 3 depots, 9 greenhouses, 2 bandrooms, 26 bakeries, 2 waste, 2 business colleges, 34 schoolhouses, 1 battery building, 1 kitchen, 3 ward-rooms, 1 gymnasium, 2 police stations.

MANUFACTURING ESTABLISHMENTS.

1 Hosiery mill, 1 silver-plating, 2 iron foundries, 2 dye-houses, 5 machine shops, 6 clothing manufactories, 9 harness shops, 1 cornice works, 1 brush shop, 9 carriage shops, 12 cigar factories, 1 brass and copper foundry, 1 locomotive works, 1 grist-mill, 1 silk-mill, 3 granite works, 1 electric light station, 4 sash and blind shops, 1 brewery, 7 shoe shops, 1 gas works, 4 slaughter-houses, 1 soap factory, 4 needle manufactories, 6 beer-bottling, 3 book-binderies, 1 paper-mill, 2 box-makers, 1 paper-box manufactory.

MARKETS.

5 Fish, 12 meat and fish, 4 meat wholesale.

STABLES.

22 Livery, 1 electric railroad, 1,164 private.

OFFICES.

21 Dentists, 1 telephone, 2 telegraph, 17 coal, 1 gas, 2 express, 19 printing.

Material on Hand.

PIPE.

24 feet 24-inch, 9,504 feet 20-inch, 720 feet 14-inch, 7,224 feet 12-inch, 2,160 feet 10-inch, 1,250 feet 8-inch, 10,230 feet 6-inch, 360 feet 4-inch.

GATES.

5 12-inch, 4 10-inch bell, 18 6-inch spigot, 1 14-inch, 5 8-inch bell, 1 4-inch bell.

BRANCHES.

1 single 4 on 10, 10 single 6 on 6, 11 single 6 on 8, 15 single 6 on 10, 8 single 6 on 12, 23 single 8 on 8, 1 single 8 on 10, 2 single 10 on 10, 2 single 14 on 14, 2 single 10 on 20, 5 double 4 on 4, 1 double 6 on 6, 7 double 8 on 8, 1 double 12 on 12, 20 double 8 on 6, 1 double 14 on 8, 7 double 10 on 6, 5 double 12 on 6, 1 double 14 on 6, 1 double 20 on 6.

PLUGS.

32 4-inch, 19 6-inch, 35 8-inch, 20 10-inch, 20 12-inch, 4 14-inch.

CLAMP SLEEVES.

8 4-inch, 130 6-inch, 36 8-inch, 9 14-inch, 123 10-inch, 18 12-inch.

SLEEVES.

18 4-inch, 8 6-inch, 4 8-inch, 7 10-inch, 6 12-inch, 8 14-inch, 2 20-inch.

REDUCERS.

1 20-inch to 14-inch, 2 14-inch to 10-inch, 2 14-inch to 12-inch, 2 12-inch to 6-inch, 2 10-inch to 6-inch, 8 8-inch to 6-inch, 6 10-inch to 8-inch, 2 6-inch to 4-inch.

TURNS.

3 20-inch Y's + 1 12-inch turn, 2 10-inch offsets, 7 8-inch offsets, 11 6-inch offsets, 1 12-inch crook, 1 20-inch crook, 1 6-inch crook, 1 4-inch 1-4, 2 6-inch 1-4.

255 pigs of lead.

172 curb boxes.

2,100 feet 1-inch lead-lined pipe.



REPORT
OF THE
STREET AND PARK COMMISSIONERS.



SEVENTH ANNUAL REPORT OF THE STREET AND PARK COMMISSIONERS.

To His Honor the Mayor and City Councils of the City of Manchester, N. H.:

GENTLEMEN,—The seventh annual report of the Board of Street and Park Commissioners is herewith submitted, showing the work of this department during the year 1899.

OFFICE.

The usual amount of work has been done in the office. The following gives the receipts and expenditures for the year 1899:

Receipts.

Received from sundry sources.....	\$290.07
Deposited with city treasurer.....	\$280.02
Cash paid for express, etc.....	10.05
Total	\$290.07
Appropriation	\$3,500.00

Expenditures.

Commissioners' salaries	\$1,800.00
Clerical services	988.00
Carriage allowance	450.00
Office supplies, books, etc.....	102.30
Telephone	36.90
Incidentals	44.80
Total	\$3,422.00
Transferred to reserve fund.....	78.00
	\$3,500.00

Inventory of City Property.

Office, including typewriter, furniture, etc.....	\$331.30
Division No. 2, including horses, dumpcarts, sprinklers, crushers, tools, etc.....	29,651.56
City stables, storage shed, shops.....	15,950.00
Lot of land on Franklin street.....	89,312.00

Pipe on hand.....	\$1,622.08
Division No. 4.....	3.95
Division No. 5.....	26.58
Division No. 6.....	22.23
Division No. 7.....	139.76
Division No. 8.....	39.60
Division No. 9.....	16.35
Division No. 10.....	1,730.69
Stable and lot in West Manchester.....	1,200.00
Commons	556.90
Total	<u>\$140,603.02</u>

List of Appropriations.

Street and park commission.....	\$3,500.00
Repairs of highways.....	21,000.00
New highways	4,500.00
Snow and ice.....	10,000.00
Watering streets	4,000.00
Paving streets	5,000.00
Macadamizing streets	10,000.00
Grade for concrete.....	5,000.00
Scavenger teams	17,500.00
City teams	7,000.00
Street sweeping	2,500.00
Bridges	2,500.00
New sewers	20,000.00
Repairs of sewers	5,000.00
Commons	4,000.00
Stark and Derryfield parks.....	1,500.00
South End playground.....	100.00
Total	<u>\$123,100.00</u>

Contracts.

Akron sewer pipe, Thomas A. Lane Company.
 Hoffman cement, Brown & Titus.
 Sewer brick, William F. Head & Son.
 Sewer and bridge plank, A. C. Wallace estate.
 Sewer castings, Hartwell Foundry Company.
 Paving blocks, Charles A. Bailey.
 Edgestones, cesspool stones, Warren Harvey.
 Concreting Hanover street, Robie Consolidated Concrete Company.
 Rebuilding bridges over Cohas brook, Head & Dowst Company.

Report of Division No. 2.

GEORGE W. CHENEY, AGENT.

SNOW AND ICE ACCOUNT.

Appropriation	\$10,000.00
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EXPENDITURES.

Labor, January	\$1,377.07
February	3,242.61
March	1,580.31
April	1,115.61
September	23.56
October	26.82
November	73.47
December	169.64
Supplies	118.54
Total	\$7,727.63
Transferred to reserve fund.....	2,272.37
	<hr/>
	\$10,000.00

STREETS AND ROADS.

The work done upon the streets and roads will be found in detail in the tables following.

The road machine has been used where such use would result in a saving to the city, and 147,078 feet, or about 28 miles, has been turnpiked in the several divisions of the city; 26,444 feet of streets and roads have been repaired with gravel or stone chips; 9,270 feet, or 1.75 miles, of new highways have been built during the season; 17,176 square yards of macadam roadways built; 18,779 feet of new side-walks have been graded for concrete; 7,696 square yards of cobble gutter paving has been laid; 5,733 feet of edgestones set and reset; 5,857 feet of fencing built along embankments in dangerous places.

There have been 154 new cesspools built in the different sections of the city and 8,144 feet, or 1.54 miles, of new sewers built.

STREETS TURNPIKED WITH ROAD MACHINE.

Beech, north and south	4,500 feet
Baker	800 "
Brown avenue	900 "
Byron	1,000 "
Clarke	400 "
Chestnut	2,200 "
Everett	350 "
Elm	1,900 "
Hooksett road	7,000 "

Hancock	1,000 feet
Liberty	500 "
Merrill	250 "
Nutt road	4,000 "
North	400 "
Pine	2,000 "
Pennacook	600 "
River road, north and south.....	5,000 "
Rowell	600 "
Sagamore	800 "
Salmon	1,000 "
Trenton	1,200 "
Titus avenue	500 "
Union, north and south.....	7,700 "
Walnut	1,500 "
Willow	400 "
Webster	1,200 "
Total	48,000 feet.

Total turnpiked, 48,000 feet, or 9.09 miles.

Labor charged to the appropriation for repairs of highways.

Repaired culvert on Old Bridge street; labor, \$25.

STREETS REPAIRED.

LOCATION.	Number of feet.	Number loads stone or gravel.
Auburn	400	20
Amherst	150	10
Byron.....	200	10
Baker.....	200	10
Beech	3,800	200
Carpenter	200	10
Elm, south	500	22
Franklin.....	300	20
Hancock.....	800	30
Hooksett road.....	200	10
Jane	400	20
Manchester	400	15
Market	150	5
Monroe	225	15
Pleasant.....	100	5
River road, north.....	500	20
Silver	800	25
Stark	100	5
Union	250	16
Totals.....	9,675	468

Labor charged to repairs of highways.

SIDEWALKS GRADED.

Auburn	300 feet
Beech	450 "

Brook	100 feet
Byron	800 "
Chestnut	75 "
Clarke	500 "
Elm, south	600 "
Hancock	400 "
Maple	100 "
Myrtle	200 "
Nutt road	150 "
Pine	50 "
River road, north	1,000 "
Silver	150 "
Union	250 "

Total 5,125 feet

Labor charged to repairs of highways.

FENCING.

Auburn, between Lincoln and Maple.....	350 feet
Ash, between Blodget and Salmon.....	470 "
Beech, between Sagamore and Webster.....	208 "
Elm, near railroad bridge.....	338 "
Kennard road	250 "
Lake avenue and Belmont.....	220 "
Merrimack and Hanover.....	254 "
Pennacook	550 "
River road, near cemetery.....	645 "
Webster, west of Smyth road.....	1,200 feet

Total 4,485 feet

Labor, \$174.60.

NEW HIGHWAYS.

LOCATION.	Length in feet.	Cut or fill.	Labor.
Ash, Brook to Blodget.....	500	Fill.	\$210.00
Auburn, Maple east	500	Both.	204.00
Albert, Harrison to Brook.....	300	"	138.00
Ash, Blodget to Salmon.....	700	"	150.00
Bay, between Carpenter and Clarke	300	"	74.00
Elm, south	300	"	282.20
Hall, Bridge north	300	Cut.	80.68
Harrison, between Russell and Oak	200	"	88.70
Merrimack, top of hill east	1,300	Both.	294.44
Mitchell, Calef road to Beech	1,600	"	173.00
Orange, east of Hall.....	150	Cut.	110.00
Salmon, Ash to Beech.....	300	Both.	105.00
Union, easterly *	400	Fill.	.....
Totals	6,850	.....	\$1,910.02

* Labor on this street charged to scavenger service.

MACADAMIZING.

LOCATION.	Length in feet.	Square yards.	Loads of crushed stone.	Labor.
Auburn, Franklin to Elm	250	888	80	\$130.00
Chestnut, Concord north	300	1,066	90	315.00
Chestnut, Merrimack to Central	500	1,889	300	582.50
Elm, south	1,100	3,178	550	1,351.25
Pearl, Chestnut to Union	850	3,400	480	1,338.38
Union, Valley to Spruce	1,900	6,755	650	2,257.03
Totals	4,900	17,176	2,150	\$5,974.16

MACADAMIZING REPAIRED.

LOCATION.	Loads of crushed stone.	Labor.
Maple, Amherst to Concord	168	\$130.50
Appleton, east of Adams	303	190.00
Merrimack, Maple to Lincoln	120	90.75
Concord, Pine to Walnut	70	90.00
Lincoln, Manchester to Merrimack	120	92.00
Maple, Bridge to East High.	250	225.00
Laurel, Maple to Lincoln		
Prospect, Chestnut to Union.		
Walnut, Amherst to Bridge.		
Myrtle, Chestnut to Walnut.		
Totals	1,031	\$818.25

* Expense for repairing these streets caused by the laying of water pipe by the Manchester Water-Works.

* SUMMARY, MACADAMIZING.

Labor on streets and running crusher	\$8,453.93
Manchester Water-Works, for water	70.00
Repairs on crusher, road roller, etc.	291.54
Incidentals	87.79
Forcite	672.02
Coal, coke, wood, etc.	471.06
Freight	6.17
Cement	179.55
Oil	79.53
Hanover-street roadway	1,076.16
Total	\$11,388.75

GRADE FOR CONCRETE.

LOCATION.	Length in feet.	Width in feet.	Cut or fill.	Labor.
Ashland, Amherst north.....	100	8	Fill.	\$6.00
Belmont and Laurel (ledge).....	100	6	Cut.	110 00
Blodget and Ash.....	150	8	Fill.	23.00
Elm, railroad bridge south.....	1,000	8	"	14.25
Elm, north of Clarke.....	75	12	Cut.	16.00
Elm and Valley.....	200	16	Both.	43.80
Elm, Trenton north.....	400	8	Fill.	17.50
Harrison and Maple.....	234	9	Cut.	32.50
Hanover and Hubbard.....	200	9	Fill.	16.50
Hall, south of Pearl.....	50	8	"	11.50
Lake avenue, east Canton.....	200	8	Cut.	50.00
Merrimack and Hanover.....	2,000	8	Both.	80.00
Orange, east of Hall.....	400	8	Cut.	27.50
Russell, south Blodget.....	60	8	"	6.00
Sagamore and Russell.....	500	8	Both.	50.50
Union and Carpenter.....	200	8	Cut.	81.60
Union, near North.....	60	8	Fill.	6.00
Totals.....	5,929			\$592.65

COBBLE GUTTER PAVING.

LOCATION.	Number loads of stone.	Square yards.	Labor.
Amherst, near Lincoln.....	1	9	\$1.50
Appleton, easterly.....	78	759	188 50
Adams and Clarke.....	8	77	24.00
Bay, between Salmon and Sagamore.....	4	34	6.50
Clark, Adams easterly.....	4	39	11.00
Carpenter.....	4	34	6.40
Elm, north of Clarke.....	3	25	8.50
Elm, south of Carpenter.....	4	39	12.80
Elm, near Hutchinson's.....	55	500	125.50
Harrison and Maple.....	10	76	35.00
Hall, Manchester to Hanover.....	8	67	20.40
Hall and Manchester.....	5	38	5.50
Jane.....	14	136	23 25
Lake avenue, Lincoln east.....	10	98	28.25
Lake avenue, between Cass and Canton.....	34	330	100.80
Maple, Concord to Amherst.....	24	233	56.80
Market and Franklin.....	4	34	7.00
Prospect, Elm to Chestnut.....	46	447	110.00
Pearl, Chestnut to Walnut.....	72	700	178.00
Salmon and Beech.....	6	51	39.00
Salmon and Bay.....	4	34	5.00
Sagamore, easterly.....	50	487	164.20
Union, near Carpenter.....	12	109	27.20
Union, Manchester to Merrimack.....	18	146	27.50
Total.....	478	4,502	\$1,212.60

PAVING HANOVER STREET.

A much-needed improvement was made in paving Hanover street from Chestnut to Pine street. After the old roadbed had been removed to a depth of twelve inches a bed of concrete consisting of one part

cement, two parts sand, and three parts crushed stone was then laid five inches deep, and a four-inch coat of concrete was laid under contract with Robie Consolidated Concrete Co., and guaranteed for a term of five years. The gutters were paved three and one half feet wide with granite block paving bedded in Portland cement.

The total cost was \$1,965, there being 1,156 square yards, including both concrete and block paving; average cost per square yard, \$1.70.

EDGE STONES SET.

Auburn, between Lincoln and Maple.....	50 feet
Amherst and Maple.....	21 "
Beech and Salmon.....	17 "
Blodget and Ash.....	20 "
Beech and Sagamore.....	237 "
Brook and Pine.....	20 "
Beech, near Blodget.....	58 "
Beech, between Blodget and Sagamore.....	60 "
Concord and Maple.....	93 "
Central, between Pine and Union.....	22 "
Chestnut and Myrtle.....	50 "
Concord, near Maple.....	200 "
Carpenter	120 "
Clarke and Elm.....	30 "
Chestnut and Orange.....	68 "
Chestnut and Central.....	105 "
Chestnut and North.....	50 "
Elm, north of Clarke.....	75 "
Elm, near Lake avenue.....	50 "
Elm and Granite.....	19 "
Elm and Readey.....	24 "
Franklin and Middle.....	19 "
Grove, between Beech and Union.....	50 "
Harrison and Maple.....	237 "
Harvard and Elm.....	40 "
Hanover, between Chestnut and Pine.....	100 "
Hall and Mead.....	20 "
Hanover, near Pine.....	40 "
Hall and Manchester.....	87 "
Liberty, between Webster and North.....	77 "
Lincoln and Manchester.....	19 "
Lincoln and Hanover.....	80 "
Maple and Hanover.....	74 "
Myrtle, between Linden and Hall.....	75 "
Maple and Brook.....	21 "
Manchester and Elm back street.....	17 "
Myrtle and Walnut.....	59 "

North and Walnut.....	21 feet
Pine and Concord.....	151 "
Prospect and Elm.....	21 "
Prospect and Chestnut.....	38 "
Pearl, east of Chestnut.....	237 "
Pearl, east of Union.....	16 "
Sagamore and Russell.....	17 "
Spruce, between Elm and Chestnut.....	50 "
Salmon and Ray.....	100 "
Spruce and Union.....	50 "
Union, near Carpenter.....	158 "
Union and Green.....	29 "
Union, between Manchester and Merrimack.....	17 "
Union and North.....	21 "
Valley and Elm.....	53 "
Wilson and Hanover.....	32 "
Waldo and Everett.....	20 "

Total	3,435 feet
Labor, \$130.40.	

EDGESTONES RESET.

Amherst, near Vine.....	75 feet
Auburn, near Beech.....	100 "
Concord, between Maple and Nashua.....	30 "
Hanover, between Pine and Chestnut.....	50 "
Maple and Concord.....	195 "
Myrtle and Elm.....	160 "
Market and Franklin.....	128 "
Prospect and Chestnut.....	100 "
Union and Pearl.....	160 "

Total	998 feet
Labor, \$56.40.	

SCAVENGER SERVICE.

This board is still using the old method for the disposal of the waste accumulation collected by the street department, by dumping the same in various parts of the city, outside the limits prohibited by the board of health. The same objection arises and more or less opposition is made to the new dumping-ground as was made when the old method was in use, by filling streets and low places in the central part of the city. Although everything possible is done, at large expense, to keep the "dump" covered with fresh sand daily, still the whole system is wrong, and some other means should be adopted for the disposal of the city garbage.

We hope the city council will make an appropriation sufficient to erect a building for the purpose of burning the city waste.

The following summary shows how the cost for scavenger service has been divided:

Labor	\$15,041.82
City farm	2,459.58
Repairs of carts and harnesses.....	131.89
Total	\$17,633.29

The following concrete work was by the Robie Consolidated Concrete Company:

NEW CROSSINGS.

LOCATION.	Price per yard.	Square yards.	Total cost.
Belmont and Lake avenue	\$0.75	30.13	\$22.59
Central, between Elm and Chestnut.....	.75	30.09	22.56
Chestnut and Orange .....	.75	29.69	22.27
Canton and Spruce.....	.85	23.11	19.64
Canton and Lake avenue .....	.85	24.27	20.63
Chestnut and Prospect.....	.85	28.58	24.29
Dover and Granite.....	.85	22.84	19.41
Elm and Prospect .....	.85	19.55	16.62
Elm and Myrtle .....	.85	18.98	16.13
Elm and Lake avenue .....	.75	30.22	22.66
Ferry and Third .....	.85	30.66	26.05
Granite and Barr .....	.65	24.11	15.68
Hanover and Lincoln .....	.75	117.02	87.76
Hall and Massabesic .....	.75	49.77	37.32
Manchester and Union.....	.75	25.66	19.24
Market and Franklin.....	.75	37.03	27.77
Myrtle and Chestnut .....	.75	35.03	26.27
Pearl and Chestnut.....	.85	25.52	21.68
South Main and Milford .....	.85	28.09	23.88
Third and Ferry .....	.85	31.11	26.45
Walnut and Salmon .....	.85	16.88	14.35
Totals		678.34	\$533.25

REPAIRED CROSSINGS.

LOCATION.	Price per yard.	Square yards.	Total cost.
Amherst and Beech	\$0.60	60.30	\$36.18
Amherst and Walnut.....	.60	25.64	15.38
Beech and Amherst .....	.35	13.61	4.76
Bell and Wilson.....	.85	7.11	6.04
East High .....	.25	9.43	2.35
Franklin and Granite .....	.50	17.11	8.55
Granite and Dover .....	.85	5.51	4.68
Hanover and Maple.....	.70	114.00	79.80
Massabesic and Hall .....	.35	73.68	25.79
Merrimack and Milton.....	.85	4.67	3.97
Orange and Chestnut.....	.50	88.92	44.46
Pine and Hanover .....	.75	17.61	13.21
Walnut and Myrtle .....	.85	38.49	32.72
West, north Douglas .....	.50	42.22	21.11
Totals		518.30	\$299.00

CONCRETE ROADWAYS REPAIRED.

LOCATION.	Price per yard.	Square yards.	Total cost.
Amherst, Beech to Union.....	\$0.60	1,446.67	\$868.00
Hanover, at postoffice.....	.75	17.06	12.79
Hanover and Chestnut.....	.60	68.94	41.36
Hanover and Chestnut.....	.40	31.65	12.66
North Main, opposite engine-house.....	.50	144.81	72.41
Union and Concord.....	.75	29.28	21.96
Union and Lake avenue.....	.50	151.51	75.75
Hanover, Chestnut, Merrimack, Union, Con- cord, sundry places.....			200.00
Totals.....		1,889.92	\$1,304.93

SIDEWALKS REPAIRED.

LOCATION.	Price per yard.	Square yards.	Total cost.
Amoskeag, near bridge.....	\$0.35	241.80	\$84.63
Chestnut and Myrtle.....	.45	.80	.36
Chestnut and Orange.....	.45	36.43	16.39
Dean avenue.....	.25	106.49	26.62
Elm and Merrimack.....	.25	51.04	12.76
Granite, near city stables.....	.50	40.06	20.03
Hanover, near Pine.....	.45	12.07	5.43
Hanover, near Pine.....	.75	20.28	15.21
Lake avenue and Elm.....	.45	1.09	.48
Massabesic and Cypress.....	.40	54.59	21.84
Pine and Hanover.....	.45	8.83	3.97
Prospect and Chestnut.....	.45	34.05	15.32
South Main and Milford.....	.45	2.84	1.28
Union and Manchester.....	.30	2.33	.70
Totals.....		612.70	\$225.02

REPAIRED CESSPOOLS.

LOCATION.	No.	Cost of material.	Labor.
Canal, near Central.....	1	\$5.20	\$6.00
Central and Canal.....	1	6.70	8.50
Chestnut and Appleton.....	1	4.92	4.00
Cedar south back.....	1	1.56	3.00
Green (sewer).....		3.90	48.00
Hanover and Chestnut.....	2	14.04	5.00
Hanover and Lincoln.....	1	3.96	2.75
Hanover, between Lincoln and Ashland.....	1	5.65	5.00
High and Union.....	1	5.16	7.50
Lake avenue, east Cass.....	2	2.44	5.00
Union, near Concord.....	2	11.55	4.00
Union and Pearl.....	2	23.16	10.50
Valley, near Willow.....	1	1.44	2.00
Walnut, Christian brook.....	1	3.97	3.50
Totals.....	17	\$93.65	\$114.75

NEW CESSPOOLS.

LOCATION.	No.	Cost of material.	Labor.
Appleton and Union.....	1	\$15.99	\$7.50
Appleton and Elm.....	1	15.27	10.25
Adams and Clarke.....	1	15.99	9.50
Auburn north back.....	1	19.96	7.00
Blodget and Oak.....	1	15.09	8.00
Bridge, between Maple and Nashua.....	1	15.00	8.50
Blodget and Ash.....	1	21.45	7.50
Beech and Blodget.....	1	20.32	7.50
Brook, near Union.....	1	17.26	13.50
Church and Washington.....	1	13.29	7.50
Clarke and North River road.....	1	17.61	10.80
Carpenter and Union.....	1	15.27	22.00
Chestnut and Blodget north back.....	1	15.99	7.50
Clarke and Elm.....	2	35.27	21.70
Central north back, near Wilson.....	1	13.93	6.50
Dean and Elm.....	1	16.35	8.50
Elm west back, south Bridge.....	1	19.96	6.50
Elm east back, between Concord and Amherst.....	1	20.19	6.50
Elm avenue.....	2	30.36	15.00
Franklin.....	1	13.29	6.50
Grove and Pine.....	2	36.59	15.00
Harrison and Maple.....	2	29.90	24.50
Hanover, east of Chestnut.....	4	94.73	42.60
Hanover and Maple.....	1	14.73	7.00
Harvard and Beech.....	2	24.78	28.00
High and Pine.....	1	15.99	9.00
Lake avenue, east Cass.....	3	47.97	28.00
Lincoln and Central.....	2	32.93	14.50
Lake avenue, near Belmont.....	1	20.14	7.50
Lake avenue and Cypress.....	1	15.09	10.20
Merrimack and Chestnut.....	1	20.19	8.75
Manchester and Elm.....	1	9.35	9.50
Market and Franklin.....	3	30.76	28.50
Merrimack, east of Beacon.....	2	29.28	10.00
Pearl, between Pine and Union.....	3	51.21	29.50
Pearl and Chestnut.....	2	27.12	18.50
Pearl and Morrison.....	1	14.55	8.50
Pearl and Union.....	1	13.83	9.50
Somerville and Beech.....	3	48.99	15.00
Sagamore.....	7	106.41	56.40
Spruce, between Lincoln and Wilson.....	2	31.26	15.50
Sagamore and Maple.....	2	28.38	21.00
Union, between Auburn and Grove.....	8	136.16	86.80
Union and Concord.....	2	27.38	10.00
Valley, near Elm.....	3	46.62	18.75
Walnut and Orange.....	1	14.55	6.50
Walnut and North.....	1	17.43	8.50
Wilson, between Laurel and Central.....	1	15.45	6.50
Webster, near Ray.....	1	16.35	9.00
Webster and Union.....	2	34.32	18.50
Totals.....	88	\$1,420.37	\$786.75

NEW SEWERS.

It is impossible for this board to satisfy the demand for new sewers with the appropriation given for building new sewers.

The section in East Manchester, known as the Spruce-street sewer, is not large enough to carry off the sewage running into it from the Old Falls road, Massabesic street, Belmont street, and Wilson street. The size of the sewer should be increased to at least three times its

present size, which is now only a 20-inch pipe, its entire distance of upwards of four thousand feet, from Lincoln to Pine streets.

There should be an appropriation of \$10,000 made to relieve the village of Amoskeag, while the older section of the city is without sewerage of any kind.

The Massabesic-street sewer should be extended to accommodate that part of the city, which is rapidly increasing in population.

The following important sewers have been built the past year: The River-road sewer, north from Wheeler street to Cloyde street, a distance of 257 feet, nearly all ledge, at a cost of \$5.275 per linear foot; Massabesic-street sewer, from Jewett street easterly 498 feet, at a cost of \$6.426 per linear foot. This sewer was cut through ledge its entire length, from six to twelve feet in depth, the average cut being on an average of eighteen and one half feet deep of sand and ledge. Blodget street, from Maple to Oak street, 560 feet; Granite street, from Franklin easterly to Spruce, and Elm east back street to Central south back, a distance of 940 feet at a cost of \$4.67 per foot; Cypress south of East Spruce street, 600 feet; Jewett to Cypress, 523 feet; Cleveland, Merri-mack river to Second street, 598 feet; Rimmon east back, from Kelley northerly 542 feet; Sylvester, from Milford westerly 202 feet, and Williams street, from Milford northerly 448 feet. At the present time some seven miles of sewers are ordered built by the city government, the building of which has not yet been commenced.

The following table gives the street, location, material, price of sewers, length in feet, manholes, lampholes, Y's, total cost, average cost per foot, average cut in feet, and nature of excavation of each sewer constructed:

SEWERS BUILT

STREET.	LOCATION.	Material	Size in inches.	Length in feet, new.
Ash east back.....	Concord southerly.....	Akron.	8	194
Beech.....	North of Blodget northerly	"	10	81
Blodget.....	Maple to Oak.....	"	10	360
Central	Beacon easterly	"	10	182
Clay	Wilson easterly.....	"	10	272
Concord	Union westerly	"	10	230
Concord	East of Hall easterly.....	"	10	114
Cypress.....	East Spruce to south of Auburn	"	12	600
Elm.....	Granite to Spruce	"	24	108
Elm east back	Spruce to Central south back	"	24	148
Granite	West of Franklin to Elm	"	24	304
Green south back....	Beech westerly	"	10	.....
Hanover.....	Chestnut easterly.....	"	8	176
Hayes avenue.....	East of Massabesic easterly.....	"	12	56
Massabesic.....	West of Jewett to east of Jewett	"	24	304
Merrimack	East of Beacon easterly.....	"	12	124
Oak	Blodget southerly.....	"	8	252
River road	Wheeler to Cloyde	"	15	251
Russell	North of Harrison northerly	"	8	50
Spruce	Elm to Elm east back.....	"	24	110
Wilson	Somerville to Clay	"	20	250
Young	Belmont to Mitchell avenue	"	10	170
Young	Jewett to Cypress	"	12	523
				4,859

IN 1899.—EAST SIDE.

Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	Average cut in feet.	Nature of excavation.
.....	1	1	1	1	\$109.21	\$0.563	3.0	Sand.
.....	1	...	3	...	150.52	1.871	8.0	Gravel and boulders.
.....	2	...	12	1	451.41	1.254	8.5	Stony gravel.
.....	1	...	10	...	528.00	2.901	7.0	Sand and ledge.
.....	1	...	3	2	260.69	0.958	11.0	Hard gravel and boulders.
.....	1	...	2	2	173.83	0.756	8.0	Sand.
.....	1	...	4	...	97.17	0.852	6.5	Sand and gravel.
.....	3	...	20	2	654.82	1.091	10.0	Sand and boulders.
.....	.....	.....	.....	.....	505.00	4.715	16.0	Gravel and clay.
270	2	...	15	1	1,953.50	4.669	16.0	Sand and clay.
.....	4	...	3	...	1,422.00	4.677	14.0	Sand and clay.
100	.....	.....	.....	.....	57.00	0.570	7.0	Street scrapings.
.....	2	.....	.....	3	113.84	0.647	6.0	Sand.
.....	1	.....	2	.....	100.14	1.788	10.0	Gravel and boulders.
194	2	...	5	3	3,200.00	6.426	18.5	Ledge and sand.
.....	.....	.....	3	2	128.72	1.035	5.5	Gravel.
.....	1	.....	4	.....	239.36	0.950	10.0	Stony gravel.
.....	2	1	10	.....	1,323.98	5.275	9.7	Ledge and gravel.
.....	.....	1	1	.....	24.42	0.488	2.0	Gravel.
.....	2	...	2	.....	514.50	4.677	16.0	Gravel and clay.
.....	1	.....	6	.....	455.70	1.823	10.5	Hard gravel.
.....	1	.....	2	.....	129.21	0.784	7.5	Sand.
.....	2	...	13	.....	608.98	1.164	7.0	Gravel and ledge.
564	31	3	121	17	\$13,202.00			

SEWERS BUILT

STREET.	LOCATION.	Material	Size in inches.	Length in feet, new.
Amory south back...	McGregor westerly.....	Akron.	8	.....
Cleveland.....	Merrimack river to Second	Iron.	10	24
Cleveland	Merrimack river to Second	Akron.	12	574
Columbus	Amory southerly.....	"	10	172
Douglas	West westerly.....	"	12	.....
Milford	Bismarck easterly.....	"	20	56
Rimmon east back...	Kelly northerly	"	10	542
School south back...	Turner westerly.....	"	8	172
Second.....	Cleveland to Blaine	"	10	243
Sylvester.....	Milford westerly	"	18	202
Walker	East of Main easterly	"	10	142
Williams.....	Milford northerly	"	10	448
				2,575

Length of sewers, east side, division No. 2.....	3,054 feet
Length of sewers, east side, division No. 7.....	2,369 "
Length of sewers, west side, division No. 10.....	2,721 "

Total 8,144 feet

Cost of sewers, east side, division No. 2.....	\$7,792.46
Cost of sewers, east side, division No. 7.....	5,409.54
Cost of sewers, west side, division No. 10.....	3,481.39

Total \$16,683.39

Average cost per foot, east side, division No. 2.....	\$2.551
Average cost per foot, east side, division No. 7.....	2.283
Average cost per foot, west side, division No. 10.....	1.280

Average total cost per foot, \$2.048.

IN 1899.—WEST SIDE.

Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	Average cut in feet.	Nature of excavation.
52	....	1	2	....	\$62.87	\$1.210	8.0	Clayey loam.
.....	2	....	20	2 {	.....	12.5		Sand.
.....	1	1	6	2	884.10	1.478	12.5	Sand.
.....	1	1	6	2	64.72	0.376	8.0	Sand.
94	.....		2	2	116.80	1.242	9.5	Clayey gravel.
.....	1	....	1	1	132.00	2.357	8.0	Stony gravel.
.....	2	....	21	....	923.88	1.704	12.5	Sand.
.....				2	98.81	0.576	5.5	Clayey loam.
.....	2	....	7	2	403.86	1.661	9.5	Sand.
.....	2	....	7	1	348.60	1.725	8.0	Stony gravel.
.....	1	....	6	....	189.00	1.331	9.0	Stony gravel.
.....	1	....	15	4	256.75	0.573	7.0	Sand.
146	12	2	87	16	\$3,481.39			

SUMMARY.

Total appropriation for new sewers.....	\$20,000.00
To transfer from reserve fund.....	416.66
Total	\$20,416.66
Expended new sewers, east side.....	\$13,202.00
new sewers, west side.....	3,481.39
new cesspools	1,069.89
On hand, supplies at city yard.....	2,663.38
Total	20,416.66

The following table shows how the cost of new sewers has been divided:

COST OF SEWERS, 1899.

MONTHS.	Labor.	Castings, repairs, black-smithing.	Pipe.	Incidentals.	Cement.	Freight charges.	Lumber.	Hardware.	Brick.	Total cost.
January	\$33.13	.....	.....	.....	.....	.....	.....	.....	.....	\$33.13
February .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	12.50	.....	.....	.....	.....	.....	.....	.....	.....	12.50
May	1,283.07	\$151.59	\$241.99	\$143.50	\$136.52	.....	.....	\$29.11	\$71.40	2,057.18
June	1,378.96	338.48	291.10	5.13	143.90	\$532.40	\$604.27	277.73	257.55	3,829.52
July	734.69	33.05	440.24	21.65	129.39	472.33	187.20	86.88	35.70	2,141.14
August	3,316.76	326.75	392.71	73.97	127.35	236.85	.....	70.05	214.20	4,758.64
September	2,910.37	65.70	33.84	9.20	254.69	105.88	12.36	71.41	.....	3,463.45
October	1,162.87	143.24	91.53	7.19	.....	69.98	.....	7.12	.....	1,481.93
November	687.91	414.96	289.20	.....	.....	238.65	.....	3.95	178.50	1,813.17
December	636.84	.....	38.43	.....	.....	115.86	.....	34.87	.....	826.00
Totals	\$12,157.10	\$1,473.77	\$1,819.04	\$260.65	\$791.85	\$1,771.95	\$803.83	\$581.12	\$757.35	\$20,416.66

BRIDGES.

Quite extensive repairs should be made to the Amoskeag bridge the coming season. The roof needs to be reshingled, and a portion of the roadway replanked.

The McGregor bridge will have to be replanked its entire length. Owing to the large amount of travel over this bridge it is necessary to remove the top course each year, while the bottom course needs renewing every three years. The annual cost of the maintenance is \$2,000.

Granite-street bridge is in good condition and not one dollar has been expended in repairs since its completion in 1896.

Two new wooden bridges have been built over Cohas brook, one on the Derry road and one on the Mammoth road, to replace two old bridges considered dangerous to the public travel, at a cost of \$415 and \$472.90, respectively.

Steps have already been taken to replace the old wooden bridge over the Portsmouth & Lawrence Railroad, at the south end of Elm street, with a new steel bridge thirty feet wider than the old bridge, which has a roadway only thirty feet in width. The new structure, when completed, will better accommodate the increased travel in that section of the city.

Report of Division No. 10.

GEORGE P. AMES, AGENT.

GENERAL REPAIRS.

The following streets have been patched with gravel or stone chips: Amory, A, Amherst road, Amoskeag, Bartlett, Blaine, Beauport, Cartier, Conant, Dubuque, Eddy hill, Goffstown road, Granite, Gates, Hevey, Jones hill, Joliette, Rimmon, South Main, Winter.

Labor	\$402.33
Top-dressed sidewalks on Dover and Green streets, labor..	4.00
Whitewashed tree boxes, fences, etc., labor.....	38.20
Cut trees on Granite, Green, Douglas, South Main, Turner, and Dover streets, labor.....	218.12
Replanked bridge on Parker street with 3,591 feet plank, labor	17.25
Cleaned gutters, scraped crossings, etc.....	267.00
Total	<hr/> \$946.90

CULVERTS.

LOCATION.	Length in feet.	Labor.
Goffstown road, wood	36	\$5.75
Hooksett road, "	32	10.50
Rockland avenue, "	32	6.50
Front street, "	59	9.10
Goffstown road, "	32	3.60
Front street, repaired		5.12
Totals	191	\$40.57

FENCING.

Amory street	56 feet
Colby street	48 "
Hooksett road	676 "
Goffstown road	128 "
Log street	320 "
Total	1,228 feet
Labor, \$85.25.	

STREETS TURNPIKED WITH ROAD MACHINE.

Alsace	320 feet
A	728 "
Adams	490 "
Amory	1,820 "
Beauport	3,620 "
Bowman	644 "
Boynton	518 "
Barr	250 "
Conant	925 "
Dunbarton road	10,630 "
Dartmouth	980 "
Douglas	1,035 "
Dubuque	560 "
Dover	280 "
Eddy road	4,494 "
Ferry	500 "
Fourth	420 "
Front	1,750 "
Green	250 "
Granite	1,470 "
Hooksett road	12,014 "
Hancock	1,200 "
Kelly	4,208 "
Monmouth	280 "

North Main	1,880 feet
Parker	938 "
Quincy	350 "
Rimmon	1,060 "
South Main	8,716 "
Second	6,790 "
Straw road	6,300 "
Third	1,470 "
Turner	2,280 "
Walker	1,120 "
West	700 "
Wilton	168 "
Winter	560 "

Total 81,918 feet

Total, 81,918 feet, or 15.51 miles.

In some cases the road machine has been used twice during the season on the above streets. Labor, \$387.02.

STREETS TOP-DRESSED.

LOCATION.	Number of feet.	Labor.
Beauport.....	775	\$124.87
Boynton	175	25.75
Bath	200	55.25
Cartier	260	60.25
Douglas	294	56.50
Dubuque*.....	550	
Front	1,100	423.97
Granite	833	185.75
Hackett Hill.....	040	97.25
North Main	896	56.12
Second	506	96.50
Totals	6,629	\$1,182.21

* Labor charged to appropriation for new highways.

NEW HIGHWAYS.

LOCATION.	Length in feet.	Labor.
Bartlett	150	\$12.95
Dubuque	1,650	334.75
Green	150	17.00
Kelly	350	82.67
Rimmon back street	120	4.48
Totals	2,420	\$451.85

COBBLE GUTTER PAVING.

LOCATION.	Length in feet.	Loads of stone.	Labor.
Barr	200	11	\$21.50
Beauport	500	13	49.63
Bowman	310	11	68.30
Bath	220	12	31.21
Cartier	355	16	54.25
Douglas	500	19	91.00
Green	100	4	15.00
Granite	1,700	36	189.00
Rinmon	250	10	35.13
Totals	4,135	132	\$555.02

PAVING RELAID.

LOCATION.	Length in feet.	Labor.
Amory	100	\$5.00
Coolidge avenue	210	10.35
Conant		2.37
Clinton	83	6.87
Dover	70	8.87
Eddy road	52	3.50
Front (rim rows)	140	8.25
Granite	90	12.50
Hancock		2.00
Milford	125	13.75
North Main	100	5.37
Parker		3.62
Putnam		1.87
Second		3.75
South Main	270	\$3.13
Totals	1,240	\$171.20

GRADE FOR CONCRETE.

LOCATION.	Cut or fill.	Number of feet.	Labor.
Amory	Cut.	100	\$5.75
Barr	Fill.	200	4.00
Bowman	"	135	7.20
Bath	"	200	7.80
Cartier	Cut.	100	7.50
Douglas	Fill.	400	9.12
Dubuque	Cut.	110	5.50
Front and Amoskeng	Fill.	4,360	11.74
Granite	"	200	7.15
Green	Cut.	135	13.62
Maat road	Fill.	125	3.50
Williams	"	100	3.00
Totals		6,165	\$115.88

REPAIRS ON SOUTH MAIN STREET.

477 feet x 14 feet, new paving.

100 feet x 14½ feet, relaid paving.

Used 2,840 blocks of paving, labor, \$433.37.

EDGE STONES SET.

Barr and Douglas.....	136 feet
Beauport and Wayne.....	263 "
Cartier and Conant	28 "
Dover and Granite.....	34 "
Douglas and Green.....	18 "
Dover and Granite.....	40 "
Granite and Barr.....	100 "
Granite and Main.....	27 "
Marion	69 "
Quiney and Douglas.....	36 "
South Main	193 "
Sullivan and Cartier.....	19 "
West and Granite.....	72 "
Total	1,035 feet
Labor, \$147.94.	

NEW CESSPOOLS.

LOCATION.	Number.	Cost of material.	Labor.
Barr and Douglas	2	\$24.31	\$13.37
Barr	1	17.56	12.50
Bath	1	16.29	21.00
Cartier	2	28.90	14.75
Cartier and Conant.....	1	14.25	6.25
Dover and Granite	2	29.69	14.12
Douglas and Quiney	2	29.36	20.00
Douglas and Green.....	1	9.87	10.00
Dartmouth.....	1	17.20	10.75
Granite and Dover	2	28.51	12.50
Granite.....	5	77.09	52.95
North Main	1	12.16	16.00
Quiney	1	9.39	8.88
South Main	1	19.71	6.75
Second	1	14.32	6.25
Wayne and Beauport	1	14.42	7.12
Williams	1	12.16	5.25
West and Granite	3	39.01	29.00
Totals	29	\$414.20	\$267.44

REPAIRED CESSPOOLS.

LOCATION.	Cost of materials.	Labor.
Beaumont east back	\$1.10	\$1.75
Cartier back street	10.50	1.62
Douglas and Quincy	8.29	4.25
Douglas .....	.30	1.75
Green and Douglas	5.60	8.75
Granite .....	.89	2.00
Green	1.94	2.00
Granite		1.62
Granite and Barr	2.30	6.24
North Main	2.28	3.75
Second .....	.29	1.62
Wayne and Beaumont .....	.84	2.00
Winter	2.12	3.50
Joliette (flushed sewer)		48.60
Walker (flushed sewer)		4.75
Cleaned cesspools		330.37
Totals	\$36.45	\$424.57

NEW SEWERS.

LOCATION.	Length in feet.	Total cost.
Amory south back, McGregor westerly	52	\$62.87
Cleveland, Merrimack river to Second	598	884.10
Columbus, Amory southerly	172	64.72
Douglas, West westerly	94	116.80
Milford, Bismarek easterly	36	132.00
Rimmon east back, Kelly northerly	542	923.88
School south back, Turner westerly	172	98.81
Second, Cleveland to Blaine	243	403.86
Sylvester, Milford westerly	202	348.60
Walker, east of Main easterly	142	189.00
Williams, Milford northerly	448	256.75
Totals	2,721	\$3,481.39

For further details on sewers, see sewer table.

REPORTS FROM HIGHWAY DIVISIONS.

Division No. 4.

BYRON E. MOORE, AGENT.

The roads being in good condition in this division little work has been done upon them during the past year. Three hundred rods of new roads have been built, and about 350 rods repaired with gravel, etc. Bushes have been cut throughout the division and all roads broken out after snowstorms.

Total amount expended for labor during the year, \$456.

Division No. 5.

MARK E. HARVEY, AGENT.

Number of feet of roads graveled, 3,450.

Turnpiked with road machine, $3\frac{1}{4}$ miles.

Number of feet of fence built at dangerous places, 144.

Weston road widened 15 feet for 118 feet in length, 301 cubic yards.

Weston road graded by cut, 325 cubic yards.

Laid 110 feet 10-inch Akron pipe as a side culvert in front of school-house.

Replanked one half of bridge over Cohas brook on Mill road and the bridge over Coburn brook on the South road.

Cut bushes on two miles of roads.

Removed small stones from all roads several times during the season.

All roads broken out after snowstorms and kept in condition for public travel.

Total amount expended for labor during the year, \$614.62.

Division No. 6.

SAMUEL WEBSTER, AGENT.

The usual amount of work has been done upon the roads in this division during the year. Four culverts were taken up, cleaned, and relaid, and three culverts repaired. Built 144 feet of new fencing on Island Pond road, and dug 69 rods of ditch on Cohas avenue. The bridge on Island Pond road was replanked, 45 feet x 18 feet. Small stones have been removed from all roads once a month, and the roads throughout the division have been broken out after snowstorms.

Total amount expended for labor during the year, \$323.35.

Division No. 7.

CHARLES FRANCIS, AGENT.

NEW HIGHWAYS.

Belmont, Valley to 175 feet south of Young road.

Candia road, widened.

Cypress, Lake avenue to Spruce.

Foster avenue.

Falls road.

Hayward, Valley easterly.

Mammoth road, Lake avenue to railroad.

GRAVELED.

Belmont, Lake avenue to Spruce.....	400 feet
Foster avenue	490 "
Silver, Wilson to Hall.....	450 "
Summer, Belmont to Hall.....	400 "
Total	1,740 feet

EDGE STONES SET.

Belmont and Hayward.....	14 feet
Belmont and Spruce.....	41 "
Falls road and Spruce.....	25 "
Hayward and Riley.....	22 "
Hall and Silver.....	21 "
Harvard	44 "
Lake avenue and Canton.....	20 "
Lake avenue and Belmont.....	18 "
Spruce and Canton.....	20 "
Wilson and Silver.....	40 "
Total	265 feet

GRADE FOR CONCRETE.

Belmont, Lake avenue to Spruce.....	200 feet
Dearborn	60 "
Jewett	50 "
Spruce, west of Cypress.....	150 "
Spruce and Beacon.....	200 "
Silver, Wilson to Hall.....	450 "
Somerville, Wilson to Hall.....	450 "
Total	1,560 feet

GUTTERS PAVED.

Belmont, from Valley south.....	1,638 feet
Belmont, Lake avenue to Spruce.....	470 "
Falls road	965 "
Hayward, east of Belmont.....	175 "
Lake avenue, east of Canton.....	50 "
Spruce, east of Canton.....	100 "
Spruce, east of Falls road.....	350 "
Spruce, Massabesic to Belmont.....	100 "
Silver, Wilson to Hall.....	900 "
Massabesic and Jewett repaired.	
Total	4,748 feet

Built new sidewalks on Hospital road, from Massabesic street easterly.

Turnpiked Belmont, Clay to Dix (new street).

Turnpiked Clay, Wilson to Hall (new street).

Used road machine on all outside roads; cleaned out gutters and cess-pools; kept roads and walks in passable condition during the winter months.

NEW CESSPOOLS.

LOCATION.	No.	Cost of materials.	Labor.
Belmont and Somerville.....	1	\$16.81	\$12.50
Cypress and Lake avenue.....	2	37.44	24.00
Jewett and Somerville.....	1	17.84	10.00
Jewett at Flint's.....	1	18.07	12.00
Lake avenue and Canton, repaired.....	2	10.42	10.00
Spruce and Canton.....	1	17.48	12.50
Spruce and Falls road.....	2	35.46	20.00
Spruce and Beacon, repaired.....	1	9.47	5.00
Spruce and Belmont.....	2	40.02	20.00
Summer and Belmont.....	3	51.58	33.00
Valley and Belmont.....	2	23.18	15.00
Wilson and Silver.....	2	37.16	20.00
Totals.....	20	\$314.93	\$194.00

NEW SEWERS.

LOCATION.	Length in feet.	Total cost.
Clay, Wilson easterly.....	272	\$260.69
Cypress, East Spruce to south of Auburn.....	600	654.82
Hayes avenue, east Massabesic easterly.....	56	100.14
Massabesic, west of Jewett.....	498	3,200.00
Wilson, Somerville to Clay.....	250	455.70
Young, Belmont to Mitchell avenue.....	170	129.21
Young, Jewett to Cypress.....	523	608.98
Totals.....	2,369	\$5,409.54

For further details on sewers see sewer table.

Division No. 8.

STEARNS SMITH, AGENT.

Graveled Hanover street, using 820 loads of gravel.

Graveled Candia road, using 340 loads of gravel.

Graveled Proctor road, using 20 loads of gravel.

Graded sidewalks on Candia road.

Cleaned out culvert and relaid 120 feet on Candia road, also 20-foot culvert on Lake Shore road relaid.

Built a 14-foot plank culvert on Morse road.

Built a driveway on Hanover street, using 12 feet of iron pipe.

Built a driveway on Candia road, using 12 feet of iron pipe.

All the roads in this division have been broken out after snowstorms and kept in good condition for public travel.

Total amount expended for labor during the year, \$1,416.22.

Division No. 9.

LESTER C. PAIGE, AGENT.

The road machine was used on the following roads: Derry road, Cohas avenue, Webster road, Paige road, Mammoth road, and Dickey road.

Derry road was plowed and turnpiked 15 rods and graveled 115. Moorsville road was widened and filled a distance of 3 rods, using fifteen loads of cobblestone and twelve loads of gravel. The culvert on South road was taken up, cleaned, and relaid, and one on Derry road was lengthened and relaid. Forty-eight loads of sand were used on this road for widening and filling. Derry road, near Cohas brook, was widened for a distance of 10 rods and a covered ditch laid on the south side to accommodate the water which continually overflowed the road during the winter and spring months. The large culvert on Mammoth road was lengthened four feet and a retaining wall built on the west side.

The three bridges on the Little Cohas brook were replanked and new stringers put in on two. One of the abutment walls which was in a dangerous condition was taken down entirely and relaid; railings were repaired and 234 feet of new fencing put up. All general repairs have been attended to, and all the roads have been broken out and kept in a passable condition during the winter months.

Amount expended for labor during the year, \$634.

Division No. 12.

EUGENE G. LIBBY, AGENT.

The roads throughout the division have been graded with stone and gravel. About three hundred feet of fence has been built on Bald Hill road, in narrow and dangerous places, the road machine has been used over the entire length of this road, stones taken out and low places filled. Mammoth road has been widened for two hundred feet in the swamp near the Smyth road, which is a great improvement and gives teams a chance to pass each other.

Bridge-street extension has been graveled and is in good repair for the winter months. The hill in front of the Fogg house requires a good

deal of attention on account of the water that washes from Bridge street and the Mammoth road. The J. Hall road, on the hill near Hanover street, has been widened by plowing out the center of the road and filling in with stones from the sides of the highway. The Rob. Neil road, so called, has had the usual amount of work and is in good repair.

Culverts have been cleaned and ditches kept open, and I consider that the highway in division No. 12 will compare favorably with any of the outlying divisions in the city.

Amount expended for labor during the year, \$461.27.

Parks and Commons.

JOHN FULLERTON, AGENT.

The public squares of the city have received the usual amount of careful attention. The same number of flower beds were set out as last season, and several trees planted to replace those that were found dead. Much-needed improvements were made in recovering old worn-out walks, and new concrete walks were laid on the east side of Merri-mack square and on the east side of Park square at a cost of \$637.94 for repairing and building the new walks. Seven new cesspools and two hundred feet of Akron pipe were put in to drain the low places. Owing to the low state of the water-supply the flooding of the squares for skating purposes was dispensed with. The appropriation of \$1,500 for the care of Stark and Derryfield parks was not sufficient for the board to make any extensive permanent improvements. About eight acres of rough and unproductive land in Derryfield park was plowed up and sowed down to grass. About thirty tons of hay was cut on the parks, which was used at the city stables. There should be an appropriation made for a building for the storage of hay on both of the parks.

The Weston Observatory was open from April to November. This is quite an expense to the city and should be considered by the city councils when the appropriations are made.

The board has sought to make the money appropriated for the purpose go as far as possible in securing that which would make the pleasure grounds attractive and comfortable.

We believe the money has been wisely spent, and hope the city councils will be liberal as well as just in the appropriations for parks and commons for the coming year.

SUMMARY COMMONS.

Labor	\$2,551.67
Water-works	350.00
Grass-seed, fertilizers, etc.....	142.17
Concrete walks	637.94
Incidentals	206.01
Shrubs, flowers	298.00
Lumber	64.98
Hardware	71.82
Lights	36.00
Total	<hr/> \$4,358.59

SUMMARY STARK AND DERRYFIELD PARKS.

Labor, Derryfield park	\$931.86
Labor, Stark park	463.00
Hardware	67.63
Water-works	40.50
Incidentals	24.33
Shrubs	12.00
Horseshoing	8.00
Insurance	5.00
Total	<hr/> \$1,552.32

SUMMARY SOUTH END PLAYGROUND.

Labor	\$70.99
Swings, etc.....	42.82
Total	<hr/> \$113.81

* CONCRETE WORK ON COMMONS.—SIDEWALKS.

LOCATION.	Price per yd.	Square yards.	Total cost.
Concord common	\$0.25	324.94	\$81.24
Hanover common .....	.25	420.08	105.02
Hanover common .....	.40	554.68	142.90
Hanover common .....	.45	30.60	13.77
Merrimack common .....	.25	909.54	227.38
Merrimack common .....	.45	585.00	263.25
Pine, north side of Park common .....	.45	329.73	148.38
Park common .....	.25	619.30	154.82
Tremont common .....	.40	76.15	30.46
Tremont common .....	.25	5.89	1.47
Totals .....	.....	3,855.91	\$1,168 69

* \$530.75 of the expense carried forward to the January draft, 1900.

TOTAL COST OF ALL WORK DONE

	January.	February.	March.	April.	May.
Street and park commiss'ners	\$120.27	\$132.50	\$572.50	\$126.50	\$185.55
Repairs on highways.....	32.55	.30	1.00	729.31	3,823.75
New highways	107.20	74.43	29.25	41.00	96.07
Snow and ice.....	1,386.07	3,242.61	1,580.31	1,115.61	.....
Watering streets ...	12.56	160.00	84.62	34.85	810.89
Paving streets .	.....	.....	.....	24.00	595.49
Macadamizing streets ...	.....	26.51	126.51	64.37	488.96
Grade for concrete .....	.....	.....	26.49	.....	603.67
Scavenger teams	1,164.72	1,444.68	1,177.90	1,973.18	2,206.15
City teams.....	393.44	626.41	514.78	537.12	876.66
Street sweeping .....	.....	.....	.....	145.19	337.28
Repairs of bridges.....	.....	69.61	.....	.....	25 88
New sewers.....	33.13	.....	.....	12.50	2,057.18
Repairs of sewers	29.12	72.60	12.73	158.27	620.19
Commons	350.91	300.78	244.10	194 45	374.37
Stark park .....	.....	.....	.....	24 50	104.50
Derryfield park.....	29.25	12.50	5.00	6.50	409.42
South End playground.....	.....	.....	.....	5.75	.....
Total.....	.....	.....	.....	.....	.....

DURING THE YEAR 1899.

June.	July.	August.	September.	October.	November.	December.	Total.
\$575.27	\$113.50	\$132.50	\$579.80	\$113.65	\$190.76	\$579.20	\$3,422.00
4,523.33	2,746.91	3,010.76	1,581.99	2,114.58	2,129.48	1,452.63	22,146.59
1,022.63	956.62	928.82	581.68	287.47	1,021.78	415.71	5,562.66
3.33	.....	.....	23.56	26.82	164.10	185.22	7,727.63
713.49	582.04	693.13	382.50	102.41	26.33	111.13	3,713.95
1,253.97	454.93	241.79	1,414 00	79.63	764.10	509.73	5,837.64
1,974.07	1,969.71	2,433.90	12.50	1,787.28	1,681.21	822.73	11,387.75
268.90	216.31	519.36	69.88	406.65	611.29	391.17	3,113.72
1,380.53	1 330.10	1,513.11	1,381.62	1,110.47	1,716.32	1,234.51	17,633.29
469.18	550.26	802.64	1,240.37	271.90	760.73	309.27	7,352.76
272.31	265.74	302.29	210.99	274.13	241.98	200 51	2,250.42
747.99	1,145.22	357.94	60.46	47.55	70.12	2.50	2,527.27
3,829.52	2,141.14	4,758.64	3,463.45	1,481.93	1,813.17	826 00	20,416.66
470.13	355.60	290.74	265.04	1,072.66	725.69	404.77	4,477.54
486.04	209.23	560.10	172.81	279.19	582.52	604.09	4,358.59
67.50	72.38	127.77	51.86	18.60	52.00	.....	518 51
159.20	131.02	105.00	82.12	43.18	47.62	3.00	1,033.81
.....	77.07	6.87	.....	.....	21.87	2.25	113.81
.....	.....	.....	.....	.....	.....	.....	\$123,094.60

In closing we desire to thank His Honor the Mayor and each member of the city government, as well as the city engineer and assistants, and all persons whatever their station, for the willing and hearty co-operation in carrying out the work of the department.

Respectfully submitted.

HORACE P. SIMPSON,
GEORGE H. STEARNS,
BYRON WORTHEN,

Board of Street and Park Commissioners.

JANUARY 1, 1900.

REPORT
OF THE
ENGINEER'S DEPARTMENT.

REPORT OF THE ENGINEER'S DEPARTMENT.

OFFICE OF THE CITY ENGINEER,

MANCHESTER, N. H., December 30, 1899.

To the Honorable Mayor and City Councils:

GENTLEMEN,—The twenty-first annual report of the City Engineer is herewith submitted, showing the expenditures and operations of the engineer's department for the year ending December 31, 1899.

OFFICE.

Five assistants have been employed in this department during the year 1899: Harrie M. Young, George W. Wales, Harry J. Briggs, Alfred T. Dodge; Ella Barker Davis, stenographer and typewriter.

FINANCIAL.

E. G. SOLTSMANN, NEW YORK.

1899.

April 4.	To 1 Buck 100-foot tape and reel.....	\$13.50	
	50-yard roll blue print cloth.....	11.25	
	50-yard roll blue print paper.....	2.50	
	24-yard roll par. ex. cloth.....	5.35	
	1 stick india ink.....	1.67	
	2 par. en. rubbers @ 30c.....	.60	
	express on goods returned.....	.60	
		<hr/>	
		\$35.47	
	By value of goods returned.....	13.20	
		<hr/>	\$22.27
May 5.	To 1 T. A. protractor in case.....	\$30.75	
	1 curve tracer	1.44	
	1 border pen	2.40	
	1 bottle cryst. ink.....	.15	
	1 T. A. railroad pen.....	3.15	
	1 case victor pens.....	3.50	
	1 set cryst. lettering angles.....	1.80	
	2 horn centers @ 40c.....	.80	
	1 section liner	7.50	
	1 rod level	3.00	
	express .....	.71	
		<hr/>	\$55.20

June 3.	To 1 plumb bob and 3 steel straight edges cleaned and nickel plated	\$6.25
Oct. 13.	20-yard roll 42-inch coronet paper....	\$2.48
	20-yard roll 42-inch tracing paper.....	1.20
	50-yard roll 40-inch detail paper.....	2.40
	6 dozen kohinoor pencils.....	5.00
	1 little, victoria tape.....	3.95
	3 par. ex. pencil holders @ 10c.....	.30
	1 cryst. angle, 30° — 60°, 15-inch.....	1.56
	1 cryst. angle, 30° — 60°, 11-inch.....	.67
	1 cryst. angle, 30° — 60°, 8-inch.....	.45
	1 cryst. angle, 45°, 12-inch.....	1.32
	½ dozen imperial crayons.....	.38
	2 bottles Higgins ink @ 25c.....	.50
	3 Alteneder pens @ \$1.58, \$1.80, \$2.03..	5.41
		<hr/>
		\$25.62
By 3 victor pens, @ \$1, 85c., 75c., returned.....		2.60
		<hr/>
		\$23.02

MORGAN, CROSSMAN & CO., SPRINGFIELD, MASS.

April 8.	To 1 facsimile stamp from cut, Buck's patent.....	\$1.25
Sept. 12.	repairing Bates numbering machine and 1 No. 1 bottle ink.....	\$2.50
	1 No. 8 ex. pad.....	.50
	4 ounces ink (black).....	.50
		<hr/>
		\$3.50

KIMBALL CARRIAGE COMPANY.

1898.		
Nov. 2.	To repairing blanket.....	\$0.75
1899.		
Dec. 2.	To repairing blanket.....	.50

C. H. WOOD.

July 19.	To varnishing tripod 3 coats.....	\$0.50
Sept. 11.	staining and varnishing 1 spline and weight box	.75

UNION MANUFACTURING COMPANY.

May 5.	To 28 dozen 1½-inch nickel figures @ 50c.....	\$14.00
Sept. 21.	24 dozen 1½-inch nickel figures @ 50c.....	12.00
Dec. 23.	38 dozen 1½-inch nickel figures @ 50c.....	19.00

W. F. HUBBARD.

Aug. 1.	To 5,000 grade stakes 2 feet long.....	\$30.00
Sept. 30.	250 grade stakes 4 feet long, 2-inch x 2-inch..	12.50

W. P. GOODMAN.

Mar. 2.	To 1 box 20-pound typewriter paper.....	\$1.00
May 25.	1 box typewriter paper, 16-pound....	\$0.90
	1 box typewriter paper, 12-pound....	.75
		<hr/>
Oct. 3.	3 memorandum books.....	\$1.65
Nov. 16.	1 box typewriter paper.....	.24
Dec. 13.	2 boxes typewriter paper @ \$1.....	.90
	1 box typewriter paper @ 75c.....	\$2.00
		.75
		<hr/>
		\$2.75

THE JOHN B. CLARKE COMPANY.

May 16.	To printing 150 reports, 46 pages and cover, @ 40c.	\$18.80
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JOHN B. VARICK COMPANY.

Sept 27.	To 1 dozen French ven. crayons.....	\$0.42
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MANCHESTER HARDWARE COMPANY.

Mar. 30.	To 1 pound paraffine wax.....	\$0.12
April 25.	1 paper copper tacks, 1-inch.....	.30
Sept. 21.	1½ pounds flour of emery @ 10c.....	.15
Dec. 2.	1 ax	\$0.75
	1 ax	1.00
		<hr/>
		\$1.75

PIKE & HEALD COMPANY.

1898.		
Nov. 25.	To bench marks on 50 hydrants @ 20c.....	\$10.00
1899.		
Dec. 12.	To 102 ¼-inch plugs.....	\$0.82
	28 hours' labor, Tangney, @ 33½c.....	9.33
		<hr/>
		\$10.15
23.	putting plugs in hydrants as per contract....	79.85

E. R. COBURN COMPANY.

Feb. 10.	To erasers	\$0.50
April 7.	1 typewriter ribbon, blue Underwood.....	1.00
12.	1 note book .....	.50
20.	1 memorandum.....	.10
May 11.	100 envelopes .....	.30
12.	25 envelopes .....	.08
June 14.	1 thousand envelopes printed.....	3.10
16.	3 pencils @ 10c.....	.30
July 26.	1 set knives for pencil pointer.....	.50
Dec. 18.	6 erasers .....	.50
23.	1 thousand envelopes.....	3.10
26.	6 erasers .....	.43

KEUFFEL & ESSER COMPANY, NEW YORK CITY.

May 15.	To 1 only slide rule, 1749-2.....	\$10.00
Aug. 7.	1 set splines and spline weights, 2190	\$10.00
	1 only adjustable curve ruler, 2176, "	
	repaired .....	.60
	express charges from Manchester....	.30
	expressage .....	.65
		<hr/>
		\$11.55
Dec. 5.	1 only leveling rod, No. 6256.....	15.00
26.	1 set paragon scales.....	11.00

J. G. JONES.

May 12.	To filing cabinet, freight.....	\$0.18
	advance charges .....	.50
	express charges .....	.25
		<hr/>
		\$0.93

TREWORGY INK MANUFACTURING CO., HOLYOKE, MASS.

Sept. 5.	To 2 bottles ink @ 75c.....	\$1.50
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DODGE & STRAW.

Nov. 4.	To 1 pair storm king boots.....	\$3.75
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JOHN WILEY & SONS, NEW YORK CITY.

Dec. 23.	To 1 Johnson stadia table 50 1/2.....	\$0.40
	postage04
		<hr/>
		\$0.44

YAWMAN & ERBE MANUFACTURING CO., ROCHESTER, N. Y.

May 9.	To 1 15-drawer Shannon cabinet, oak, 3 x	
	5, with acme lock.....	\$30.50
	1 S. & G. lock on private drawer.....	.50
		<hr/>
		\$31.00
12.	By freight and cartage.....	.93
		<hr/>
		\$30.07

G. W. DODGE SHOE COMPANY.

Nov. 1.	To 1 pair men's rubber boots.....	\$3.50
Dec. 6.	1 pair men's rubber boots.....	3.50

R. K. HORNE.

Sept. 21.	To 1 refrigerator pan.....	\$0.38
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THE LYON PLATINUM PEN CO., NEW YORK CITY.

Aug. 9.	To 4 gross platinum pens @ \$1.50.....	\$6.00
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THE CARTER'S INK COMPANY, BOSTON, MASS.

Oct. 11.	To 1/2 dozen coupon book No. 4867, good for 6 ideal	
	ribbons	\$4.50

TEMPLE & FARRINGTON COMPANY.

Mar. 6.	To 50 sheets paper, 8 x 10½.....	\$1.40	
9.	151 sheets parchment deed, 19 x 24.....	11.25	
20.	1 bottle Higgins drawing ink... ..	\$0.25	
	500 sheets typewriter paper.....	.75	
		<hr/>	\$1.00
May 11.	1 quire paper.....	.38	
July 26.	12 blank books No. 5549.....	9.00	
Dec. 26.	binding 1 lot plans.....	\$3.00	
	making 1 folio for plans.....	4.00	
	making 2 folios for plans @ \$2.50.....	5.00	
		<hr/>	\$12.00

W. & L. E. GURLEY, TROY, N. Y.

April 8.	To 1 No. 376 20-inch Y level and extension tripod	\$115.00	
	By old transit and tripod in ex- change	\$32.00	
	old level and tripod in ex- change	28.00	
		<hr/>	60.00
			\$55.00
July 1.	To express on level, June 15.....	\$0.70	
	express on tripod, June 29.....	.40	
	repairing and readjusting level, re- pairing spindle and socket, tangent, slides, pinions, and Y's, box and new strap	20.00	
	repolishing and bronzing.....	12.00	
	prepaid express .....	.90	
		<hr/>	\$34.00

AMERICAN EXPRESS COMPANY.

April 10.	To express on two boxes from Troy, N. Y.....	\$1.15	
May 16.	express on bundle from New York City.....	.40	
June 5.	transportation of bundle from New York.....	.40	
Sept. 13.	express on bundle from Springfield..	\$0.25	
	express on package to Springfield....	.25	
		<hr/>	.50
Oct. 14.	express on package from New York.....	.70	
Dec. 6.	express on bundle from New York.....	.55	

HARRIE M. YOUNG.

Sept. 16.	To carfare to Nashua and return.....	\$0.78	
	dinner at Nashua.....	.75	
		<hr/>	\$1.53

NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY.

Dec. 30.	To rent of telephone for 1 year.....	\$44.47	
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GEORGE W. WALES.

Dec. 30.	To 325 days 6 $\frac{1}{8}$ hours service @ \$2.75 per day	\$895.99	
	By 16 $\frac{3}{4}$ days service @ \$2.75 per day (Dorr's pond survey) deducted.....	46.06	\$849.93
			<hr/>

HARRIE M. YOUNG.

Dec. 30.	To 273 days 3 $\frac{1}{4}$ hours service @ \$2.75 per day	\$751.92	
	By 4 days 3 $\frac{3}{4}$ hours service @ \$2.75 per day (Dorr's pond survey) deducted	12.37	\$739.55
			<hr/>

HARRY J. BRIGGS.

Dec. 30.	To 325 days 1 $\frac{1}{8}$ hours service @ \$2.50 per day	\$812.95	
	By 15 $\frac{1}{2}$ days service @ \$2.50 per day (Dorr's pond survey) deducted.....	38.75	\$774.20
			<hr/>

ALFRED T. DODGE.

Dec. 30.	To 317 days 2 $\frac{1}{4}$ hours service @ \$2 per day	\$634.61	
	By 5 $\frac{1}{2}$ days service @ \$2 per day (Dorr's pond survey) deducted.....	11.00	\$623.61
			<hr/>

ELLA B. DAVIS.

Dec. 30.	To 78 days service @ \$1.25 per day.....	\$97.50	
	228 days service @ \$1.60 per day.....	336.24	\$463.74
			<hr/>

SAMUEL J. LORD.

Dec. 30.	To first quarter's salary.....	\$300.00	
	second quarter's salary.....	300.00	
	third quarter's salary.....	300.00	
	fourth quarter's salary	337.50	
		<hr/>	\$1,237.50
	By 14 $\frac{1}{2}$ days service on Dorr's pond survey, deducted on the basis of \$1,350 per year, 30 days per month, \$3.75 per day	54.38	\$1,183.12
			<hr/>
	Total expense engineer's department for 1899.....		\$5,249.98

SUMMARY.

• Appropriated to the engineer's department for year 1899	\$5,400.00	
Expense of engineer's department for year 1899....		\$5,249.98
Balance unexpended		150.02
	<hr/>	<hr/>
	\$5,400.00	\$5,400.00

During a part of the month of December, 1899, this department was engaged surveying a tract of land surrounding Dorr's pond to ascertain if said section was desirable for a fair-ground site. Upon completion of the field work claims were made that the department had not the right to charge the expense of the work to the city. Accordingly the time was deducted (as set forth in the foregoing financial report), which is as follows:

Dec. 30. To G. W. Wales, 16 $\frac{3}{4}$ days at \$2.75 per day.....	\$46.06
H. M. Young, 4 $\frac{1}{2}$ days at \$2.75 per day.....	12.37 $\frac{1}{2}$
H. J. Briggs, 15 $\frac{1}{2}$ days at \$2.50 per day.....	38.75
A. T. Dodge, 5 $\frac{1}{2}$ days at \$2 per day.....	11.00
S. J. Lord, 14 $\frac{1}{2}$ days at \$3.75 per day.....	54.37 $\frac{1}{2}$

Total	\$162.56
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The above sum of \$162.56 was paid by Mayor William C. Clarke, January 1, 1900.

ORDERS.

Number of orders for:

Surveys, street lines, and grades.....	267
Sewer grades	49
Paving grades	4
Street railway grades	5
Gutter grades	77
Curb grades	78
Pine Grove cemetery grades.....	41
Valley cemetery grades	2
Profile levels	61
Petitions	124
Crematory committee	6
Sewers and drains committee.....	6
Street committee	6
Road hearings	12
Board of aldermen.....	6
Board of examiners of plumbers.....	13
Setting stone bounds.....	89
Total number of orders.....	855

FIELD WORK.

Levels for profiles for establishing grades (length in feet)...	123,600
for sewer profiles (length in feet).....	14,562
for establishing new bench marks (length in feet)...	142,600
Other levels (length in feet).....	17,523
Total length of levels in feet.....	298,285
Cross section levels, Pine Grove cemetery (area in sq. ft.)....	47,200
city farm for proposed fair-ground.....	3,600,000
Total area of cross section levels in square feet.....	3,647,200

Surveys of streets and street lines (length in feet).....	55,000
for street numbers (length in feet).....	11,604
miscellaneous (length in feet).....	5,580
Total length of surveys in feet.....	72,184
Street lines marked on ground (length in feet).....	31,770
Lot and avenue lines, Pine Grove cemetery (length in feet)..	7,074
Lot and avenue lines, Valley cemetery (length in feet).....	238
Lines for gutters (length in feet).....	21,665
Lines for curbs (length in feet).....	5,119
Lines for sewers (length in feet).....	8,705
Lines for street railroad (length in feet).....	2,227
Other lines (length in feet).....	7,080
Total length of lines in feet marked on the ground.....	83,878
Grades set for sidewalks (length in feet).....	46,348
gutters (length in feet).....	21,665
curbs (length in feet).....	5,119
sewers (length in feet).....	8,705
street railway (length in feet).....	1,934
paving streets (length in feet).....	520
building streets (length in feet).....	18,482
Pine Grove cemetery (length in feet).....	4,060
other purposes (length in feet).....	2,830
Total length in feet of grades set.....	109,663
Number of old lots restaked in Pine Grove cemetery.....	22
New lots laid out in Pine Grove cemetery.....	105
Old lots restaked in Valley cemetery.....	3
Total number of cemetery lots staked out.....	130
Soundings taken for sewer trench (length in feet).....	3,673
Stone bounds set.....	85

OFFICE WORK.

PLANS AND PROFILES MADE FOR SIDEWALK GRADES.

High, Chestnut to Union.

SEWER PLANS AND PROFILES.

Beech, Hayward to Somerville.

Beech east back, Amherst to Hanover.

Elm east back, Orange to Myrtle south back.

Foster avenue, Valley to Hayward.

Hanover, Elm to Chestnut.

Harvard, Beech to Lincoln.

Hayes avenue, Old Falls road to Chase avenue.

Laurel south back, Beech to Maple.

Lowell, Belmont to Beacon.

Myrtle south back, Elm east back to Union.
 Old Falls road, Spruce to Hayes avenue.
 Orange, Elm to Elm east back.
 Riley avenue, Hayward to Young.
 River road, Clarke to north of Thayer.
 Somerville, Union to Maple.
 Taylor, Valley to Grove.
 Union, Harvard to Somerville.
 Total sewer plans and profiles, 17.

NUMBERING PLANS.

Derryfield lane, Nutfield lane to Pine.
 Gore (changed to Blodget). Two plans.
 Knowlton, Young to Hayward.
 Mast road, Mast street to north of D.
 Porter, Cilley road to Massabesic. Two plans.
 Waldo, Elm to Everett.
 Woodbine avenue, Candia road to Concord & Portsmouth Railroad.
 Two plans.
 Total numbering plans, 10.

MISCELLANEOUS PLANS.

Amoskeag lot book, 14 full sheets, 9 part sheets. Copy.
 Avon, Clement, Mast, and Ingalls, land of Adam Dickey. Copy.
 Baker and Calef road, land of Waterman Smith. Copy.
 Bridge-street extension, land of H. M. Tarbell. Copy.
 Bridge, East High, and Beacon, land of G. W. Butterfield. Copy.
 Calef road and Manchester & Lawrence Railroad, land of Manchester Gas Company. Copy.
 Dix, Howe, Shasta, Lincoln, Wilson, Hall, Harvard, Silver, Somerville, and Clay, land of F. M. Hoyt and Greeley Company. Copy.
 Harvard and Beech, land of Murphy and Collins. Copy.
 Holly avenue and Taylor, land of Cynthia C. Kennedy. Copy.
 Kennard and Smyth roads, land of H. B. Sawyer. Copy.
 Lowell, East High, Ashland, and Malvern, land of William Stark heirs. Copy.
 Massabesic, Taylor, and Dearborn, land of M. C. Paige. Copy.
 Old and New Mast roads, land of Charles Blood. Copy.
 Pine Grove cemetery, city treasurer's book, 2 sheets. Copy.
 Railroad, land of C. C. Koehler. Copy.
 Taylor and Valley, land of S. G. Fletcher. Copy.
 Wilson, Hall, Central, and Laurel, land of Mary Wilson. Copy.
 Total miscellaneous plans, 40.

WORKING PLANS.

Albert, Harrison to Brook. Profile.
 Amherst, Mammoth road to Salisbury. Profile.

- Ash, Sagamore to Salmon. Profile.
Ash, Blodget to Sagamore. Profile.
Ash east back, Concord southerly. Profile.
Ashland, Hanover to Amherst. Profile.
Auburn, Maple to Wilson. Profile.
Beech, Blodget to Salmon. Profile.
Beech, Pearl to Orange. Profile.
Belmont, Lake avenue to Spruce. Profile.
Blodget, Maple to east of Oak. Profile.
Brook, Elm to Chestnut. Profile.
Cartier, Kelley to Coolidge avenue. Profile.
Chestnut, Concord to Lowell. Profile.
City farm, cross section for proposed fair grounds.
Clay, Taylor to Jewett. Profile.
Cleveland, Third to Merrimack river. Sewer profile.
Colby, West Hancock to Log. Profile.
Columbus, Amory southerly. Profile.
Concord, Chestnut to Pine. Profile.
Cypress, Clay to Howe. Profile.
Cypress, Howe to Cilley road. Profile.
Depot, Elm to west of Franklin. Profile.
Dix, Taylor to Cypress. Profile.
Dix, Cypress to Jewett. Profile.
Elm east back, Spruce and Granite. Three sewer profiles.
Foster avenue, Valley to Hayward. Profile.
Garmon, Hanover to Amherst. Profile.
Gertrude, Hanover to Amherst. Profile.
Granite, Dover to Barr. Profile.
Granite, Barr to Quiney. Profile.
Granite bounds. Detail plan.
Hall, Harvard to Clay. Profile.
Hanover, Maple to Wilson. Profile.
Hanover, Mammoth road to east of Salisbury. Profile.
Hanover, Chestnut to Pine. Profile.
Hanover, Pine to Union. Profile.
Harrison, Hall to Belmont. Profile.
Harrison, Elm to Chestnut. Profile.
Harrison, Maple to Oak. Profile.
Hayes avenue, Old Falls road to Chase avenue. Profile.
Hiram, Blaine to Cleveland. Sewer profile.
Howe, Taylor to Cypress. Profile.
Jane, Lowell to Nashua. Profile.
Manchester south back, Elm east back to east of Chestnut. Profile.
Maple, Prospect to Harrison. Profile.
Massabesie, Jewett to Mammoth road. Two sewer profiles.
Merrill, Jewett easterly. Profile.
Mitchell, Beech to Calef road. Profile.

Myrtle, Union to Walnut. Two profiles.
 North, Union to Beech. Profile.
 Oak, Prospect to Blodget. Profile.
 Oakland avenue, Mammoth road to Revere avenue. Profile.
 Old Falls road, Spruce to Massabesic. Profile.
 Oneida, South Main to Harriman. Profile.
 Orange, Walnut to Beech. Profile.
 Pearl, Chestnut to Walnut. Profile.
 Pine Grove cemetery, Linden, Cedar, and Walnut avenue. Three profiles.
 Porter, Massabesic to Maynard avenue. Two profiles.
 Prospect, Elm to Chestnut. Profile.
 Readey, Elm to River road. Profile.
 River road, Cloyde street, Whitney lot, and Stark park. Sewer profile.
 Russell, Blodget to Sagamore. Profile.
 Salisbury, Hanover to Amherst. Profile.
 Salmon, Beech to Maple. Profile.
 Second, Cleveland to Walker. Profile.
 Silver, Wilson to Hall. Profile.
 Somerville, Wilson to Cypress. Two profiles.
 South Main, Manchester & North Weare Railroad to bridge.
 Taylor, Somerville to Cilley road. Profile.
 Union, Manchester to Merrimack. Profile.
 Union, Clarke to Trenton. Two profiles.
 Walnut, Myrtle to Prospect. Profile.
 Walnut, Pearl to Orange. Profile.
 West Appleton, Elm westerly. Profile.
 William, Mast to Milford. Profile.
 Total working plans, 85.

TRACINGS.

Detail plan of granite bounds.
 Glenwood, with additions.
 Goffstown village. Two plans.
 Manchester and Auburn town line.
 Manchester, west of Elm street.
 Manchester, east of Elm street.
 Manchester, east of Merrimack river.
 Manchester, west of Merrimack river.
 Manchester, north of Clarke.
 Manchester Street Railway, showing lines.
 Mast road, South Main to New Hampshire Central House.
 Proposed track to the Cheney Paper Mill.
 Title, sewerage system, east and west. Two plans.
 Title, electric street lights.
 Title, Manchester, N. H., west of Elm street, for Boston & Maine office.

Title, city of Manchester, map.
Whittemore land (west side).
Total tracings, 19.

BLUE PRINTS.

Currier section. Two prints.
Detail plan granite bounds. Nine prints.
Manchester and Auburn town line. One print.
Manchester, west of Elm street. Eleven prints.
Manchester, east of Elm street. Five prints.
Manchester, north of Clarke. Six prints.
Manchester Heights. Eleven prints.
Mast road, South Main to Goffstown village, for street railway.
Osborn's map, showing New Hampshire mountains. Three prints.
Pine Grove cemetery, Chapel lawn. Four prints.
Pine Grove cemetery, Pine lawn. Four prints.
Title, electric street lights. Two prints.
Title, city of Manchester, map. Seven prints.
Total blue prints, 66.
104 sheets have been made for the new sewer books and 17 plans in the city clerk's book of records.
Total of plans made, 359.
Six tracings and six blue prints showing city sewers have been brought up to date.
Maps brought up to date, 5.
Plans brought up to date, 56.
Numbering sheets brought up to date, 10.
Plans made for establishing of grade on laid out streets, 61,210 feet.
Plans made for establishing of grade on streets not laid out, 5,070 feet.
Total, 82,371 feet.
Lot owners looked up, 79,778 feet.

SEWER LICENSES.

At a meeting of the board of mayor and aldermen, November 19, 1897, the city engineer was instructed "to examine the books in his office and present to said board a list of property owners who had neglected to pay the license fee required by the city laws and ordinances for entrance to the city sewers."

The records were examined and a list compiled giving the name of the property owner, the location of the lot, the street frontage, and the license fee due upon each and every piece of occupied property within one hundred feet of a public sewer.

The said list was given in hand to the city clerk, as clerk of the board of mayor and aldermen.

The list comprised 1,017 names and a notice was sent each one by the city clerk. A summarized statement of the ground covered to January 1, 1900, follows, viz.:

Number of names January 1, 1898.....	1,017	
Paid during 1898.....	277	
Granted free during 1898.....	76	
Paid prior to 1898, located during year.....	121	
Paid during 1899.....	24	
Granted free during 1899.....	12	
Not connected	1	
Paid prior to 1898, not located.....	60	
Paid previously	3	
Paid in part.....	1	
Covered by old permit.....	1	
Not recorded paid, receipts shown.....	5	
Recorded paid, no record of cash received.....	2	
Claims to have been paid, no record.....	1	
Licenses taken out, not paid.....	18	
Not heard from.....	415	

Total number not settled January 1, 1900..... 506

1,017 1,017

Number of licenses granted delinquent sewer enterers during 1899	24	
Number of free licenses granted delinquent sewer enterers during 1899	12	
Number of licenses granted new sewer enterers during 1899....	80	
Number of free licenses granted new sewer enterers during 1899	3	

Total number of licenses granted during 1899..... 119

Amount of money recorded as collected from twenty-four , delinquent sewer enterers.....	\$366.00	
Amount of money recorded as collected from new sewer enterers during 1899.....	1,172.98	
Amount of money recorded as collected on note due in 1898..	15.00	

Total amount of money recorded as collected during 1899 \$1,553.98

All moneys are collected by the city clerk.

STREET SIGNS.

Street signs on hand January 1, 1899.....	39	
Street signs (metal) ordered during 1899.....	12	
Street signs (black, white letters) ordered during 1899	6	
Street signs (white, black letters) ordered during 1899	31	
Street signs put up during 1899.....	68	
Street signs on hand January 1, 1900.....	40	
	108	108
Street signboards ordered during 1899.....	64	
Old signboards used over during 1899.....	5	
Signboards ordered painted during 1899.....	69	
	69	69

COST OF STREET SIGNS.

L. M. Aldrich & Company.

1899.		
April 18.	To 12 street signboards @ 6¼c.....	\$0.75

Harry A. Piper.

May 19.	To 50 street signboards @ 7c.....	\$3.50
Aug. 19.	2 street signboards @ 7½c.....	.15
Oct. 7.	sign hooks .....	.80
	4½ hours' labor.....	1.93

Metal Stamping Company.

April 15.	To 12 street signs (metal) @ 23c.....	\$2.76
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Manchester Hardware Company.

Jan. 21.	To nails for putting up street signs.....	\$0.25
Sept. 12.	nails for putting up street signs.....	.38

George W. Reed.

1898.		
Dec. 2, 3.	To use of pung in putting up street signs.....	\$1.50

Charles H. Wood.

1899.		
May 15.	To painting 12 street signboards @ 10c.....	\$1.20
May 27.	painting 3 street signs @ 35c.....	1.05
July 19.	painting 3 street signs @ 35c.....	1.05
Sept. 8.	painting 12 street signs @ 35c.....	4.20
Sept. 13.	painting 4 street signs (black, w. letters) @ 55c.	2.20
Oct. 13.	painting 2 street signs (black, w. letters) @ 55c.	1.10
	painting 2 street signs @ 35c.....	.70
Nov. 25.	painting 31 street signs @ 35c.....	10.85

Total cost of street signs for year 1899.....	\$34.37
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The expense of street signs is charged to the appropriation for incidental expenses. The bills are certified to by this department.

STREET NUMBERS.

Figures on hand January 1, 1899.....	276	
Figures ordered during year 1899.....	1,080	
Figures used during 1899.....		715
Figures on hand January 1, 1900.....		641
	<hr/>	<hr/>
	1,356	1,356
Street numbers replaced during 1899.....		60
Street numbers given out during 1899.....		196
		<hr/>
Total numbers used during 1899.....		256

The expense of street numbers is charged to the appropriation for the Engineer's Department. (See Union Manufacturing Company's financial report.)

STONE BOUNDS.

Stone bounds ordered during year 1899.....	110	
Stone bounds set during year 1899.....	85	
Stone bounds on hand January 1, 1900.....	25	
	<hr/>	<hr/>
	110	110

COST OF STONE BOUNDS.

Frank S. Bodwell.

June 1.	To 50 stone bounds @ \$1.65.....	\$82.50
Oct. 19.	60 stone bounds @ \$1.40.....	84.00

Marime Guillemette.

Dec. 23.	To 4 days labor (setting bounds) @ \$1.63.....	\$6.52
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Total cost stone bounds for 1899.....	\$173.02
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The expense of stone bounds is charged to the appropriation for incidental expenses. The bills are certified to by this department.

COAL-TAR CONCRETE WORK.

Following is a tabulated statement, giving the location, number of square yards, price per square yard, total cost, and date when measured of all coal-tar concrete work, as follows: Table No. 1, street crossings (new); Table No. 2, street crossings (repairs); Table No. 3, sidewalks (new); Table No. 4, sidewalks (repairs); Table No. 5, driveways (new and repairs); Table No. 6, street paving (new); Table No. 7, street paving (repairs); Table No. 8, street crossings (new); Table No. 9, summary of Tables Nos. 1, 2, 3, 4, 5, 6, 7, and 8. All bills are made out and certified to by this department. The work in Tables Nos. 1, 2, 3, 4, 5, 6, and 7 was done by the Robie Consolidated Concrete Company, and that in Table No. 8 by the Manchester Concrete Company.

TABLE No. 1.
STREET CROSSINGS (New).—ROBIE CONSOLIDATED CONCRETE CO.

STREET.	LOCATION.	Square yards.	g Square yard.	Total cost.	Measured.
Belmont	Lake avenue (south side)	30.133	\$0.75	\$22 589	Dec. 14, 1899
Canal	Cedar street (north side)	48.179	.75	36 134	Nov. 25, 1899
Canton	Spruce street (north side)	23.111	.85	19 644	May 25, 1899
"	Lake avenue (south side)	24.996	.85	20 636	June 24, 1899
Central	Half way between Elm and Chestnut	30.090	.75	22 567	Nov. 17, 1899
Chestnut	Orange street (north side)	32.688	.75	22 266	" 17, 1899
Elm	Granite street	92.814	.85	19 417	June 24, 1899
"	Prospect street	19.555	.85	16 621	" 24, 1899
"	Myrtle street (south side)	18.983	.85	16 135	" 24, 1899
"	Lake avenue (north side)	16.968	.75	12 726	Sept. 23, 1899
"	" (south side)	13.253	.75	9 939	" 23, 1899
Granite	Barr street (east side)	24.111	.65	15 672	" 23, 1899
"	Canal, northeast corner to southwest corner	49.777	.75	37 322	Nov. 25, 1899
Hall	Massabesic street (southwest side)	29.666	.75	21 790	Dec. 14, 1899
Hanover	Lincoln street (east side)	29.155	.75	21 866	" 14, 1899
"	" (west side)	29.555	.75	22 166	" 14, 1899
Lincoln	Hanover street (north side)	29.314	.75	21 933	" 14, 1899
"	" (south side)	25.666	.75	19 249	Sept. 23, 1899
Manchester south back	Union street (east side)	37.033	.75	27 774	Oct. 17, 1899
Market	Franklin street (east side)	47.289	.75	35 495	Dec. 1, 1899
Massabesic	Summer street (north side)	17.037	.75	12 777	Nov. 17, 1899
Myrtle south back	Chestnut street (east side)	17.994	.75	13 495	" 17, 1899
"	" (west side)	28.989	.85	23 875	June 24, 1899
South Main	Milford street (south side)	16.888	.85	14 354	May 25, 1899
Walnut east back	Salmon street (north side)				
		725.751	.....	\$557 255	

TABLE No. 2.

STREET CROSSINGS (Repairs).—ROBIE CONSOLIDATED CONCRETE CO.

STREET.	LOCATION.	Square yards.	§ Square yard.	Total cost.	Measured.
Amherst.....	Beech street (west side).....	33,566	\$0.60	\$20,139	June 24, 1899
Beech east back.....	Amherst street (south side).....	13,611	.35	4,763	Oct. 17, 1899
" west back.....	" (north side).....	26,799	.60	16,037	June 24, 1899
Bell.....	Wilson street (east side).....	7,111	.85	6,044	May 25, 1899
Chestnut.....	Pearl street (south side).....	6,844	.85	5,817	June 24, 1899
"	" (north side).....	7,866	.85	6,686	" 24, 1899
"	Prospect street (north side).....	6,666	.85	5,696	" 24, 1899
"	Orange street (south side).....	31,390	.50	15,680	Nov. 17, 1899
Franklin west back.....	Granite street (north side).....	17,111	.50	8,555	May 25, 1899
Granite.....	Dover street (west side).....	5,505	.85	4,679	June 24, 1899
Hanover.....	Maple street (east side).....	27,511	.70	19,257	Dec. 14, 1899
"	" (west side).....	29,492	.70	20,595	" 14, 1899
"	" (west side).....	27,640	.70	19,320	" 14, 1899
High.....	Pine street (east side).....	1,833	.25	458	Nov. 17, 1899
"	Between Pine and Union.....	7,600	.25	1,900	" 17, 1899
Maple.....	Hanover street (north side).....	29,406	.70	20,626	Dec. 14, 1899
Massabesic and Hall.....	Lake avenue (south side).....	13,688	.85	25,793	" 14, 1899
Merrimack.....	Milton street (east side).....	4,667	.85	3,966	June 24, 1899
Myrtle.....	Walnut street (west side).....	10,361	.85	8,806	May 25, 1899
"	" (east side).....	5,977	.85	5,080	" 25, 1899
Orange.....	Chestnut street (east side).....	28,800	.50	14,400	Nov. 17, 1899
"	" (west side).....	28,755	.50	14,377	" 17, 1899
Pearl.....	" (east side).....	11,822	.85	10,048	June 24, 1899
Pine.....	Hanover street (north side).....	7,840	.75	5,880	Oct. 17, 1899
"	" (south side).....	9,777	.75	7,832	" 17, 1899
Prospect.....	Chestnut street (west side).....	14,044	.85	11,937	June 24, 1899
Walnut.....	Myrtle street (north side).....	17,177	.85	14,601	May 25, 1899
"	" (south side).....	4,977	.85	4,230	" 25, 1899
"	Amherst street (north side).....	25,644	.60	15,386	June 24, 1899
		530,174	.....	\$323,872	

TABLE No. 3.
SIDEWALKS (New).—ROBIE CONSOLIDATED CONCRETE CO.

LOCATION.	LIMITS.	Square yards.	@ Square yard.	Total cost.	Measured.
Chestnut street (west side).....	Merrimack to Central	287.798	\$0.45	\$129,509	Nov. 17, 1899
North Main street	North Main street schoolhouse	19,246	.45	5,510	Sept. 23, 1899
Pine street (west side).....	Cedar to Lake avenue	329,728	.45	148,377	Dec. 1, 1899
		629,772	.....	\$283,396	

TABLE No. 4.
SIDEWALKS (Repairs).—ROBIE CONSOLIDATED CONCRETE CO.

LOCATION.	LIMITS.	Square yards.	@ Square yard.	Total cost.	Measured.
Anherst street	At Hanover square.....	526,476	\$0.25	\$131,619	Nov. 17, 1899
"	"	30,698	.45	13,769	" 17, 1899
Beech street (west side).....	Beech street (west side).....	3,680	.25	770	" 17, 1899
Central street (north side).....	Anherst to Hanover	28,200	.40	11,280	" 17, 1899
Chestnut street (west side).....	Chestnut street (west side)	23,475	.25	5,868	" 17, 1899
"	Merrimack street to Central	30,350	.25	7,587	" 17, 1899
"	Orange street (north side)	9,473	.45	4,262	" 17, 1899
"	"	13,171	.45	5,926	" 17, 1899
"	" (south side).....	8,823	.45	3,970	" 17, 1899
"	"	4,962	.45	2,232	" 17, 1899
"	Prospect street (north side).....	18,588	.45	8,364	" 24, 1899
"	" (south side).....	15,462	.45	6,957	" 24, 1899
"	Lake avenue to Cedar.....	102,824	.45	46,270	Nov. 25, 1899
"	"	63,855	.25	22,349	" 25, 1899
"	"	226,237	.25	56,559	" 25, 1899

City yard.....	Basement of wagon shed.....	523.320	.65	340.158	Dec.	18, 1899
Dean avenue.....	Hampshire lane to Franklin.....	96.128	.25	24.047	July	14, 1899
Elm street.....	Elm to Hampshire lane.....	106.433	.25	26.623	Nov.	25, 1899
"	At South Manchester hose house.....	129.436	.35	45.302	July	14, 1899
"	"	13.211	.45	5.944	"	14, 1899
"	At southeast corner Merrimack.....	51.040	.25	12.760	Sept.	23, 1899
Elm east back street.....	Central street (north side).....	25.975	.45	11.688	Nov.	25, 1899
Franklin street.....	Lake avenue.....	1.088	.45	.489	Sept.	23, 1899
"	At city library (inside walk).....	98.833	.25	7.208	July	14, 1899
"	At Franklin-street school.....	50.567	.50	15.283	Sept.	23, 1899
"	"	6.560	.45	2.947	"	23, 1899
"	" basement.....	11.555	.40	4.622	"	23, 1899
"	At city library (basement).....	9.050	.35	3.167	Oct.	17, 1899
Granite street.....	Alongside of city wagon sheds.....	19.872	.25	4.968	"	17, 1899
Hanover street.....	At Welch's livery stable.....	29.111	.50	14.555	May	25, 1899
"	Union to Beech.....	12.072	.45	5.432	Oct.	17, 1899
"	Union street (east side).....	415.218	.25	103.804	Nov.	17, 1899
Lincoln street.....	At Lincoln-street school.....	1.777	.25	.444	"	17, 1899
"	"	146.359	.35	51.225	July	14, 1899
Lowell street.....	At Lowell-street school.....	116.064	.40	46.425	Sept.	23, 1899
Massachusetts street.....	Cypress street (south side).....	78.659	.30	23.597	Dec.	21, 1899
Mast street.....	At Varney school.....	54.505	.40	21.838	Sept.	23, 1899
Merrimack street.....	At Training school.....	7.797	.35	2.728	"	23, 1899
"	"	31.600	.30	9.480	"	23, 1899
"	"	7.970	.45	3.586	"	23, 1899
" (south side).....	Elm to Chestnut.....	486.828	.25	121.707	Nov.	17, 1899
Merrimack square.....	From northwest corner to northeast corner.....	17.860	.25	4.465	"	25, 1899
"	"	23.040	.45	10.368	"	25, 1899
"	From northeast corner to monument.....	175.816	.25	43.954	"	25, 1899
"	From monument to east side.....	11.707	.25	2.925	"	25, 1899
"	Southeast corner of square.....	20.800	.45	9.360	"	25, 1899
"	From south side to monument.....	46.366	.25	11.591	"	25, 1899
"	"	94.414	.45	42.485	"	25, 1899
"	Around monument.....	22.540	.25	5.647	"	25, 1899
"	Northwest corner to monument.....	7.777	.25	1.944	"	25, 1899
"	Southwest.....	86.771	.25	21.692	"	25, 1899
"	"	158.947	.45	71.526	"	25, 1899
Myrtle south back (north side).....	Chestnut street (east side).....	80.800	.45	30.725	July	14, 1899
North Main street.....	At North Main-street school.....	102.411	.30	20.651	Sept.	23, 1899
"	" basement.....	82.607	.25	5.205	"	23, 1899
"	"	820	.25	69.492	"	1, 1899
Park square.....	East Spruce to northwest corner.....	277.971	.25	5.366	Dec.	1, 1899
"	Spruce to East Spruce.....	21.465	.25	32.140	"	1, 1899
"	Center to northeast corner.....	128.562	.25	47.825	"	1, 1899
"	Northeast corner to Spruce.....	191.302	.25	1.994	"	1, 1899
"	Cedar street (north side).....	7.977	.25	1.994	"	1, 1899
Pine street (west side).....	Hanover street.....	7.003	.45	3.191	Oct.	17, 1899

TABLE No. 4.—*Continued.*

LOCATION.	LIMITS.	Square yards.	@ Square yard.	Total cost.	Measured.
Pine street.....	Hanover street (south side).....	1,744	\$0.45	\$0.784	Oct. 17, 1899
".....	".....	73,950	.40	29,580	Nov. 17, 1899
".....	At Tremont square (inside walks).....	3,813	.25	.953	" 17, 1899
".....	High street (north side).....	2,084	.25	.521	" 17, 1899
".....	Between Bridge and High.....	.888	.40	.355	" 17, 1899
Pine and Chestnut.....	At Concord square.....	324,938	.25	81,234	July 17, 1899
Pine Grove cemetery.....	At superintendent's house.....	63,059	.40	25,223	24, 1899
Rimmon street.....	At Fulton engine house.....	7,496	.35	2,623	Dec. 21, 1899
".....	".....basement.....	.444	.25	.111	" 21, 1899
Salmon street (south side).....	At west end Amos-keng bridge.....	241,801	.35	84,630	Nov. 23, 1899
Silver street.....	Lincoln, easterly, at Kimball Carriage Co. s.....	15,888	.45	7,149	Dec. 1, 1899
South Main street.....	Milford street (south side).....	2,844	.45	1,279	June 24, 1899
Union street.....	Manchester south back street, southeast corner.....	2,333	.30	.700	Sept. 23, 1899
".....(west side).....	Bridge street (south side).....	1,320	.40	.528	Nov. 17, 1899
Webster street.....	At Webster-street school.....	98,700	.35	34,545	July 14, 1899
".....	At Webster-street engine house.....	9,616	.45	4,327	" 14, 1899
".....	".....	4,111	.35	1,438	Dec. 31, 1899
		5,888,927	.....	\$1,951,695	

TABLE No. 5.

DRIVEWAYS (New and repairs).—ROBIE CONSOLIDATED CONCRETE CO.

LOCATION.	LIMITS.	Square yards.	@ Square yard.	Total cost.	Measured.
Elm street.....	At South Manchester hose house.....	29,966	\$0.65	\$19,477	July 14, 1899
Granite street.....	Westerly entrance to city stable.....	10,951	.50	5,475	May 25, 1899
Hanover street.....	At postoffice.....	17,066	.75	12,799	Oct. 17, 1899
".....	At Welch's stable.....	20,283	.75	15,212	" 17, 1899
Pine Grove cemetery.....	Front of office.....	77,311	.35	27,058	June 24, 1899
		155,577	.....	\$80,021	

TABLE No. 6.
STREET PAVING (New).—ROBIE CONSOLIDATED CONCRETE CO.

LOCATION.	LIMITS.	Square yards.	@ Square yard.	Total cost.	Measured.
Hanover street	Chestnut to Pine.....	955.797	\$1.15	\$1,076.166	Oct. 17, 1899
		955.797	.....	\$1,076.166	

TABLE No. 7.
STREET PAVING (Repairs).—ROBIE CONSOLIDATED CONCRETE CO.

LOCATION.	LIMITS.	Square yards.	@ Square yard.	Total cost.	Measured.
Amherst street.....	Union to Beech.....	1,416.666	\$0.60	\$867.999	June 24, 1899
Chessom avenue.....	At Pine Grove cemetery	117.991	.35	41.296	" 24, 1899
Hanover street.....	At Chestnut.....	68.944	.60	41.366	Oct. 17, 1899
		31.655	.40	12.662	" 17, 1899
North Main street.....	At Fire King engine house.....	144.811	.50	72.405	May 25, 1899
Union street.....	At Lake avenue	151.517	.50	75.758	" 25, 1899
"	At Concord	29.280	.75	21.960	Oct. 17, 1899
West street	Douglas northerly	42.222	.50	21.111	June 24, 1899
		2,033.086	.....	\$1,154.557	

TABLE No. 8.
STREET CROSSINGS (New).—MANCHESTER CONCRETE CO.

STREET.	LOCATION.	Square yards.	@ Square yard.	Total cost.	Measured.
Ferry street	Third street (east side)	30.666	\$0.85	\$26.056	Apr. 26, 1899
Third street	Ferry street (south side)	31.111	.85	26.444	" 26, 1899
		61.777	.....	\$52.500	

TABLE No. 9.
SUMMARY OF TABLES Nos. 1, 2, 3, 4, 5, 6, 7, AND 8.

DESCRIPTION.	CONTRACTORS.	Table No.	Square yards.	Cost.
Driveways (new and repairs)	Robie Consolidated Concrete Co.	5	155.577	\$80.021
Street crossings (new)	Manchester Concrete Co.	8	61.777	52.500
" " (repairs)	Robie Consolidated Concrete Co.	1	725.751	557.255
Street paving (new)	" " " "	2	530.174	323.872
" " (repairs)	" " " "	6	935.797	1,076.167
Sidewalks (new)	" " " "	7	2,033.086	1,154.557
" " (repairs)	" " " "	3	629.772	283.396
	" " " "	4	5,888.927	1,951.695
Total paid by city of Manchester			10,960.861	\$5,479.462

SEWERAGE SYSTEM.

Table No. 10 gives the location, material, size, and length of sewers, together with the number of manholes, lampholes, house Y's, and cesspool Y's, built during the year 1899.

Table No. 11 gives the material, size, and length of all public sewers in the city of Manchester, January 1, 1900. This table further gives the total length (in feet) of each size of sewer and the number of manholes on each size, also the total length (in feet and miles) of each material.

Table No. 12 gives the location, size, material, and length of pipe removed, where sewers have been relaid during the year 1899.

Table No. 13 is a summary of the sewerage system by years, from January 1, 1880, to January 1, 1900. It gives the length in miles constructed and cost each year, also the average cost per mile for each year. The third column gives the number of miles constructed to date, each year. It will be noted that January 1, 1880, there were 17.06 miles constructed, the cost not being recorded. January 1, 1890, there were recorded 2,003 house connections. Beginning with this date, columns four and five give the number of connections recorded each year and the total number recorded to date each year.

TABLE No. 10.

SEWERS BUILT IN 1899.

LOCATION.	LIMITS.	Material.	Size in inches.	Length in feet, new.	Length in feet, re-laid.	Man- holes.	Lamp- holes.	House Y's.	Cess- pool Y's.
Amory south back street.	McGregor westerly.	Akron	8	.....	52	.....	1	2	.....
Ash east back street.	Concord southerly	"	8	194	.....	1	1	1	.....
Beech street.	North of Blodget northerly	"	10	81	.....	1	.....	3	.....
Blodget street.	Maple to Oak.	"	10	360	.....	.....	.....	12	1
Central street.	Beacon easterly	"	10	182	.....	1	.....	10	.....
Clay street.	Wilson easterly	"	10	272	.....	1	.....	3	2
Cleveland street.	Merrimack river to Second	"	12	574	.....	2	.....	20	2
"	"	Iron.	10	24	.....	.....	.....	.....	.....
Columbus street	Amory southerly	Akron.	10	172	.....	1	1	6	2
Concord street.	Union westerly.	"	10	230	.....	.....	.....	4	2
"	East of Hall easterly	"	10	114	.....	1	.....	20	.....
Cypress street.	East Spruce to south of Auburn.	"	12	600	.....	3	.....	2	2
Douglas street.	West westerly	"	12	.....	94	.....	.....	2	.....
Elm street.	Granite to Spruce	"	24	108	.....	.....	.....	.....	.....
Elm east back street.	Spruce to Central south back.	"	24	148	270	2	.....	15	1
Granite street.	West of Franklin to Elm	"	24	304	.....	4	.....	3	.....
Green south back street.	Beech westerly	"	10	.....	100	.....	.....	.....	.....
Hanover street.	Chestnut easterly.	"	8	176	.....	2	.....	.....	3
Hayes avenue.	East of Massabesic easterly.	"	12	56	.....	.....	.....	2	.....
Massabesic street.	West of Jewett to east of Jewett	"	24	304	194	2	.....	5	3
Merrimack street.	East of Beacon easterly.	"	12	124	.....	.....	.....	3	.....
Milford street.	Bismarck easterly	"	20	56	.....	1	.....	1	.....
Oak street.	Blodget southerly	"	8	252	.....	1	.....	4	.....
Kimmon east back street.	Kelley northerly	"	10	542	.....	2	.....	21	.....
River road.	Wheeler's to Cloyd street	"	15	251	.....	2	1	10	.....
Russell street.	North of Harrison southerly	"	8	50	.....	.....	1	1	.....
School south back street.	Turner westerly	"	8	172	.....	.....	.....	.....	2
Second street.	Cleveland to Blaine.	"	10	243	.....	2	.....	7	2
Spruce street.	Elm to Elm east back	"	24	110	.....	2	.....	2	.....
Styvester street	Milford westerly	"	18	262	.....	2	.....	2	1
Walker street.	East of Main easterly	"	10	112	.....	1	.....	6	.....
William street.	Milford northerly	"	10	448	.....	.....	.....	15	4
Wilson street.	Somerville to Clay	"	20	250	.....	1	.....	6	.....
Young street.	Belmont to Mitchell avenue.	"	10	170	.....	.....	.....	2	1
"	Jewett to Cypress	"	12	523	.....	2	.....	13	.....
				7,434	710	43	5	208	33

TABLE No. 11.
MATERIAL, SIZE, AND LENGTH OF SEWERS JANUARY 1, 1900.

SIZE IN INCHES.	Akron.	Portland (old).	Portland (new).	Cement.	Earthen.	Brick.	Cast iron.	Steel riveted.	Total feet.	Man- holes.
6	70	90					24		70	10
8	11,779			8,265					11,833	1
9			7,605		1,175		90		8,265	209
10	88,932	3,930	4,526	18,867	2,545		34		101,792	199
12	87,804						24		113,776	124
14									41,015	24
15	36,007		4,518	400					11,723	58
18	395	770		860		5,532	188		17,384	54
20	14,075		3,151				24	67	16,249	7
24	10,239		3,284	735		1,900			1,697	1
16 x 24				1,697					1,600	2
20							277.5	39	822.5	3
24									446	2
36						446			1,195	2
42									372	3
48						1,195		372	1,400	1
54									985	1
60									1,506	4
17 x 26									1,197	5
20 x 30									849	3
22 x 33									11,051	38
24 x 36									514	2
26 x 39									4,530	9
29 x 44									1,360	1
30 x 46									3,279	10
32 x 48									1,037	4
36 x 54									4,388	8
38 x 57									790	4
40 x 60									3,104	9
42 x 63									712	2
50 x 75										
Total feet.....	253,672	4,850	23,479	30,915	3,720	47,211	631.5	478	364,355.5	794
Total miles.....	47,930	0.919	4.447	5.855	0.704	8.941	0.120	0.090	69.006	

TABLE No. 12.

PIPE REMOVED WHERE SEWERS HAVE BEEN RELAID.

LOCATION.	LIMITS.	Material.	Size in inches.	Length in feet.
Amory south back.....	McGregor westerly	Akron. ..	8	52
Douglas	West westerly	"	12	94
Elm east back	Spruce to Lake avenue south back...	"	15	144
" "	Lake avenue to Central south back ..	Cement..	9	126
Green south back	Beech westerly.....	Akron ...	10	100
Massabesie.....	Jewett westerly.....	Portland.	20	194
				710

TABLE No. 13.

SUMMARY OF SEWERAGE SYSTEM SINCE 1880.

YEAR.	Miles con- structed during year.	Miles con- structed to date.	House con- nections recorded during year.	House con- nections recorded to date.	Cost of sewers.	Average cost per mile.
1880.....	1.62	18.66	.....	.....	\$19,919.40	\$12,295.92
1881.....	2 18	20.84	.....	.....	23,895.12	10,961.06
1882.....	3.37	24 21	.....	.....	24,148.13	7,165.65
1883.....	2.54	26.75	.....	.....	21,452.05	8,445.69
1884.....	1.73	28.48	.....	.....	21,548.60	12,445.84
1885.....	1.56	30.04	.....	.....	28,122.84	18,027.46
1886.....	2.15	32.19	.....	.....	44,479.15	20,687.97
1887.....	1.44	33.63	.....	.....	19,893.92	13,815.22
1888.....	1.73	35.36	.....	.....	31,154.19	18,008.20
1889.....	2.66	38.02	.....	2,003	27,513.73	10,343.51
1890.....	1.81	39 83	64	2,067	39,297.97	21,711.58
1891.....	3.08	42.91	153	2,220	55,409.73	17,990.17
1892.....	3.13	46 04	214	2,434	39,724.65	12,691.58
1893.....	3.31	49.35	191	2,625	51,322.15	15,526.33
1894.....	2.91	52.26	258	2,883	46,116.01	15,847.42
1895.....	3.98	56 24	255	3,138	71,859.36	18,055.11
1896.....	4.71	60.95	237	3,375	66,468.87	14,099.33
1897.....	*3.93	64.42	283	3,658	36,258.41	9,226 05
1898.....	*3.76	67.60	520	4,178	34,939.51	9,292.42
1899.....	*1.54	69.01	208	4,386	16,683.39	10,819.31
Total					\$720,217.18†	.....

* Includes old sewers relaid.

† Total cost for 19 years.

ABSTRACT REPORT OF THE COMMITTEE ON SEWERS AND DRAINS FOR THE YEAR 1899.

PERSONNEL OF THE COMMITTEE.

Alderman from ward 7, John F. Frost, chairman.

Alderman from ward 6, Samuel M. Couch.

Alderman from ward 8, Gillis Stark.

Alderman from ward 10, Eugene E. Reed.

Clerk of the committee, Samuel J. Lord.

The following tables have been compiled to be used in the annual report of the Engineer's Department in lieu of citing the records of the committee on sewers and drains in detail. The tables give all the necessary information pertaining to the petitions, orders for sewers passed by the city councils, sewers built and not built up to January 1, 1900.

Table I is a list of all the petitions that have been acted upon during the year, also the manner in which, and date when, each petition was acted upon and disposed of by the committee.

Table II is a list of sewers ordered in up to January 1, 1899, giving the distances built, distances built in excess of order, distances ordered that are unnecessary, and the distances remaining unbuilt up to January 1, 1900.

Table III is a list of sewers ordered built in 1899, giving the distances built, distances built in excess of order, distances ordered that are unnecessary, and the distances remaining unbuilt up to January 1, 1900.

Table IV is a list of sewers built in 1899, not ordered by the board of mayor and aldermen.

Table V is a list of sewers relaid, giving the distance removed and the distance relaid.

Table VI is a list of sewers ordered in, but not built up to January 1, 1900. This table is compiled from the first, second, fourth, and eighth columns of Tables II and III.

Table VII is a list of sewers ordered in up to January 1, 1900, giving the distances that are unnecessary to build.

Table VIII is a list of sewers built during 1898, pending the passage of orders in 1899, giving the distances built and date of order.

Table VII is not included in Table VI.

All distances are given in feet.

TABLE No. 1.

PETITIONS ACTED UPON BY THE COMMITTEE ON SEWERS AND DRAINS DURING THE YEAR 1899.

LOCATION.	LIMITS.	Dis- tance granted.	Dis- tance re- fused.	Petition of	Date of pe- tition.	Withdraw.	Granted.
Ash east back street.	Concord, southerly.	214	.....	William Corey.	June 6, 1899	.....	June 23
Amory street.	Essex to west of Morgan	.....	780	Harry H. Piper.	Jan. 6, 1896	Feb. 17	.....
Auburn street.	Cypress easterly.	300	.....	S. N. Bourne.	Sept. 14, 1898	.....	May 2
Bartlett street.	Wayne to south of Sullivan	.....	1,331	Albert Olivier.	June 26, 1894	Feb. 17	.....
Beecon street.	Bridge southerly.	200	.....	Aleide Provencher.	" 10, 1890	.....	Aug. 16
Beech street.	North of Gore to Sagamore	389	.....	John H. Maynard	July 29, 1898	.....	June 2
Blodgett street.	Maple to Oak.	350	.....	Fred C. Hale	May 15, 1890	.....	" 23
Boynton street.	C southerly, 1700 feet.	.....	1,700	H. H. Huntress.	Feb. 4, 1895	.....	.....
Bridge street.	Belmont to Beacon.	510	.....	Geo. W. Butterfield.	June 28, 1898	June 2	.....
Carroll street.	"	.....	355	C. A. Brooks	Jan. 15, 1895	Feb. 17	.....
Chestnut street.	Old Amherst road southerly.	500	.....	Geo. W. Chickering.	Sept. 3, 1898	.....	Feb. 17
Cleveland street.	Second to Merrimack river	598	.....	Chas. M. Hecker	June 3, 1899	.....	June 23
Columbus street.	Amory southerly.	300	.....	Martin Lyons	Mar. 24, 1899	.....	" 23
Concord street.	Pine east back to Union.	382	.....	Thos. Lawrence	June 10, 1899	.....	Aug. 16
Cypress street.	Spruce to Auburn	500	.....	S. N. Bourne	Sept. 14, 1898	.....	May 2
Dartmouth street.	Young southerly.	450	.....	Daniel F. Emerson.	April 3, 1890	.....	" 2
Hubbuck street.	North of Frederick to south of Frederick	306	.....	Reinhold Babel.	" 12, 1898	.....	Feb. 17
Hubbuck street.	Kelley to Bremer	.....	600	Jeremiah O'Connell	Mar. 7, 1899	June 2	.....
Elm east back street.	Central south back to Spruce.	414	.....	A. D. Gooden	May 2, 1899	.....	June 23
Frederick street.	Second easterly.	175	.....	Wilhelm Georgi.	June 3, 1899	.....	" 23
Garland avenue.	Cypress westerly.	.....	.....	M. V. B. Garland.	Sept. 20, 1898	June 2	.....
Granite street.	Elm to west of Franklin.	358	.....	A. D. Gooden	May 2, 1899	.....	June 23
Harrison street.	Maple to Oak.	350	.....	H. H. Huntress.	Feb. 4, 1895	Feb. 17	Aug. 16
Huntress street.	Prince southerly	.....	400	A. R. Phippen.	" 17, 1899	.....	.....
J. Hall road.	Nelson northerly	.....	400	A. T. Beaumier.	May 9, 1894	" 17	.....
Joliette street.	Kelley to Amory.	.....	562	The Union Mfg. Co.	Aug. 3, 1891	" 17	.....
Mammoth road.	Hevey east back to Joliette	.....	1,456	M. E. Clough	" 29, 1898	.....	Feb. 17
Maple street.	Massabesic to Nelson	1,166	.....	Ernest L. Lodge	June 10, 1899	.....	June 23
Massabesic street.	Northwest corner of Brook.	.....	.....	Susie G. Woodman.	Sept. 8, 1899	.....	Sept. 22
Massabesic street.	At No. 453.	.....	.....	Joseph Quirin.	Feb. 17, 1899	Feb. 17	.....
"	J. Hall to Mammoth road.	934	.....	M. E. Clough	Aug. 29, 1898	.....	Feb. 17

Mast road.....	1,800	J. F. Wymam.....	Feb. 17, 1899	Feb. 17	.....
McDuffie street.....	500	H. H. Huntress.....	" " 4, 1895	" 17	.....
Merrill street.....	300	Wm. E. Simpson.....	" " 17, 1899	" 17	.....
Merrill south back.....	500	Martin Britton.....	July 1, 1899	Aug. 16	.....
Morgan street.....	330	Harry H. Piper.....	Jan. 6, 1896	Feb. 17	.....
New Mast road.....	1,600	Jas. F. Wymam.....	April 9, 1897	" 17	.....
Oak street.....	320	Fred C. Hale.....	May 15, 1899	.....	June 23
Old Amherst road.....	248	C. A. Brooks.....	Jan. 15, 1895	Feb. 17	.....
Old Falls road †.....	703	Chas. C. Hayes.....	Sept. 15, 1898	Aug. 16	.....
Pine street.....	447	Lawrence Connor.....	June 28, 1899	" 16	.....
Pine east b'k street.....	160	Thos. Lawrence.....	" " 28, 1899	" 16	.....
Plummer street.....	510	Lawrence Connor.....	Feb. 4, 1895	Feb. 17	.....
South of Concord to Concord	600	R. E. Wheeler.....	May 1, 1899	June 23	.....
Pine to Union.....	.....	Edmund Kendall.....	July 31, 1899	.....	Aug. 16
Boynton to Huntress.....	770	Chas. E. Kyron.....	Feb. 17, 1899	Feb. 17	.....
At No. 522.....	320	Chas. M. Hecker.....	June 3, 1899	.....	June 23
230 feet south of Blodgett to Sagamore	243	Wilhelm Georgi.....	" " 2, 1899	" 23	.....
115 feet west of Linden easterly	118	A. D. Gooden.....	May 2, 1899	" 23	.....
Cleveland to Blaine.....	164	Levi W. Page.....	" " 25, 1899	Aug. 16	.....
North of Frederick to Frederick	512	Louis Keilger.....	Oct. 31, 1898	June 23	.....
Elm east back to Elm.....	748	S. G. Fletcher.....	Feb. 17, 1899	.....	Aug. 16
Willson to Hall.....	.....	H. W. Meader.....	Feb. 17, 1899	.....	Aug. 16
Milford to Avon.....	650	Martin Britton.....	July 1, 1899	.....	Aug. 16
Valley southerly.....	336	J. F. Wymam.....	Feb. 17, 1899	.....	Aug. 16
Silver to Clay.....	530	Daniel B. Emery.....	June 16, 1899	.....	Aug. 16
North of Prescott to Merrill south back	970	Daniel F. Emerson.....	April 3, 1899	.....	May 2
Mast road to Warner.....	503	.....	.....	.....	.....
Milford to Mast.....	.....	.....	.....	.....	.....
Jewett to Cypress.....	.....	.....	.....	.....	.....
Sumner south b'k ||||	14,564	.....	.....	.....	.....
Sylvester street.....	17,247	.....	.....	.....	.....
Taylor street.....	.....	.....	.....	.....	.....
Union street.....	.....	.....	.....	.....	.....
Wilkins street.....	.....	.....	.....	.....	.....
William street.....	.....	.....	.....	.....	.....
Young street.....	.....	.....	.....	.....	.....

* Laid over February 17.

† Laid over May 2 and June 2.

‡ To be relaid, no petition.

|| Dismissed by board of aldermen.

§ Request for free entrance, laid over June 2.

** Laid over February 17 and May 2.

†† Laid over May 2.

‡‡ Request for free entrance.

||| Laid over June 23.

§§ Request for free entrance, laid over February 17 and May 2.

SUMMARY.

Number of petitions acted upon.....	60	Number of feet petitioned for.....	31,811
Number of petitions granted leave to withdraw.....	28	Number of feet granted leave to withdraw.....	17,247
Number of petitions granted.....	32	Number of feet granted.....	14,564
.....	60	.....	31,811
.....	60	.....	31,811

TABLE No. II.

SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1899.				BUILT DURING 1899.		NOT NEEDED.		NOT BUILT.	
Location.	Limits.	Distance.	Date of order.	Distance.	Excess.	Distance.	Distance.	Distance.	Distance.
Amherst street.....	Union to Ashland	2,600	May 2, 1893	.....	.....	.....	.....	2,600	.....
Amory street.....	Alsace easterly	200	Sept. 7, 1897	.....	.....	.....	.....	200	.....
Auburn street.....	East of Canton easterly	90	Nov. 9, 1894	.....	.....	.....	.....	90	.....
" south back street	Hall easterly	150	Jan. 7, 1896	.....	.....	.....	.....	150	.....
Beacon street.....	Amherst to Concord.....	71	Nov. 10, 1896	.....	.....	.....	.....	71	.....
Beech street.....	Harvard to Hayward.....	272	Oct. 4, 1898	.....	.....	.....	.....	272	.....
Belmont street.....	Old Bridge to Bridge.....	200	Jan. 7, 1896	.....	.....	.....	.....	200	.....
Blaine street.....	Second to Hiram	400	Dec. 6, 1892	.....	.....	.....	.....	400	.....
Bremner north back street.....	Coolidge avenue west b'k to Rimmon	89	Oct. 4, 1898	.....	.....	.....	.....	89	.....
Cedar south back street.....	Beech westerly	175	May 5, 1896	.....	.....	.....	.....	175	.....
Central street.....	Belmont to Milton.....	242	Nov. 2, 1897	.....	.....	.....	.....	242	.....
"	Milton to Reacon.....	311	Sept. 6, 1898	.....	.....	.....	.....	311	.....
Chestnut street.....	Clarke northerly	750	Dec. 6, 1898	.....	.....	.....	.....	750	.....
Concord street.....	Hall easterly	200	Sept. " 6, 1887	114	.....	.....	.....	86	.....
Dover street	Clinton northerly	160	" 4, 1894	.....	.....	.....	.....	160	.....
Elm street	Shasta to Baker.....	106	May 6, 1890	.....	.....	.....	.....	106	.....
"	Railroad bridge to Elm avenue	1,373	" 6, 1890	.....	.....	.....	.....	1,373	.....
"	Monroe south back to Clarke	851	June 4, 1895	.....	.....	.....	.....	851	.....
"	Trenton to Rowell.....	448	Feb. 4, 1896	.....	.....	.....	.....	448	.....
Essex street	Amory southerly	560	Aug. 5, 1898	.....	.....	.....	.....	560	.....
Foster avenue.....	Valley to Hayward.....	140	July 14, 1896	.....	.....	.....	.....	140	.....
Front street	Eddy to north of hotel	2,300	Sept. 5, 1893	.....	.....	.....	.....	2,300	.....
Grove south back street	East of Union to Beech	302	Sept. 7, 1897	.....	.....	.....	.....	302	.....
"	Wilson easterly	200	Nov. 2, 1897	.....	.....	.....	.....	200	.....
Hall road	Massabesic to Nelson	601	Aug. 5, 1898	.....	.....	.....	.....	601	.....
Hale street.....	Schiller southerly	450	Nov. 9, 1894	.....	.....	.....	.....	450	.....
Hanover street.....	East of Alfred to Highland	134	Jan. 4, 1897	.....	.....	.....	.....	134	.....
Harrison street.....	Belmont westerly	65	Sept. 1, 1896	.....	.....	.....	.....	65	.....
Hayward street.....	Hale to South Main.....	700	Nov. 9, 1894	.....	.....	.....	.....	700	.....
Hevey east back street.....	Almsworth avenue to Cypress	148	Sept. 7, 1897	.....	.....	.....	.....	148	.....
"	Wayne northerly	396	Jan. 7, 1896	.....	.....	.....	.....	396	.....
Jones street.....	South of Amory to Columbus avenue.....	550	July 10, 1893	.....	.....	.....	.....	550	.....
Lake avenue.....	Nelson to Benton	577	Aug. 5, 1898	.....	.....	.....	.....	577	.....
Mammoth road	East of Canton to Hall road	500	Sept. 6, 1898	.....	.....	.....	.....	500	.....
"	Nelson northerly	500	Aug. 5, 1898	.....	.....	.....	.....	500	.....

Massabesic street.....	1,120	Aug.	5, 1898	304	816
"	56	"	5, 1898	56	
Amherst road to Sylvester.....	175	Dec.	5, 1898		175
Amherst road easterly.....	570	Aug.	5, 1898		570
Hall road to Mammoth road.....	65	Feb.	4, 1896		65
Belmont westerly.....	100	Sept.	3, 1895		100
Hall easterly.....	1,400	"	4, 1897	58	800
Kelley to Mason.....	557	Nov.	2, 1897	251	306
Clarke to Park avenue.....	16	Oct.	4, 1898	50	34
North of Harrison northerly.....	148	Nov.	10, 1896		148
Linden westerly.....	850	"	10, 1896		850
Hale to South Main.....	160	Dec.	3, 1895		160
South of Schiller to Harvell.....	512	Aug.	2, 1898		512
Union to Maple.....	110	Jan.	7, 1896	110	110
East of Canton easterly.....	1,700	July	2, 1895		1,700
Clarke to Trenton.....	192	Sept.	7, 1897		192
North of Prescott to Hayward.....	26	"	3, 1895	26	26
Silver to Plummer.....	50	Aug.	6, 1895	50	50
South of Christian brook southerly.....	133	Jan.	4, 1897		133
Cypress westerly.....	4,040	Nov.	7, 1893		4,040
Elm to Wilson.....	105	June	23, 1897		105
Salmon southerly.....	88	Nov.	10, 1896	88	88
" northerly.....	226	Sept.	4, 1894		226
Clinton northerly.....	400	"	5, 1895		400
Wentworth street.....	150	"	6, 1898	170	20
Schiller northerly.....					
Belmont westerly.....					
	29,906			1,487	54
					85
					28,415

TABLE No. III.

SEWERS ORDERED IN DURING THE YEAR 1899.

Location.	Limits.	Distance.	Date of order.	BUILT DURING 1899.		NOT NEEDED.	NOT BUILT.
				Distance.	Excess.	Distance.	Distance.
Ash east back street.....	Concord southerly.....	214	July 26, 1899	194	.....	20	.....
Auburn street.....	Cypress easterly.....	300	May 2, 1899	.....	.....	.....	300
Beacon street.....	Bridge southerly.....	200	Oct. 3, 1899	.....	.....	.....	200
Beech street.....	Silver to Somerville.....	324	Jan. 2, 1899	.....	.....	324	.....
" " ".....	North of Blodget to Sagamore	389	July 11, 1899	81	.....	308	.....
Blodget street.....	Maple to Oak.....	350	" 26, 1899	360	10	.....	.....
Bridge street.....	Belmont to Beacon.....	510	Oct. 3, 1899	.....	.....	.....	510
Cleveland street.....	Second to Merrimack river	598	July 26, 1899	598	.....	.....	.....
Columbus street.....	Amory southerly.....	300	" 26, 1899	172	.....	.....	128
Concord street.....	Pine east back to Union	382	Sept. 12, 1899	230	.....	.....	152
" " ".....	Spruce to Auburn	500	May 2, 1899	600	100	.....	.....
Cypress street.....	Young southerly.....	450	" 9, 1899	.....	.....	.....	450
Elm east back street.....	Central south back to Spruce	414	" 9, 1899	418	4	.....	.....
Frederick street.....	Second easterly.....	175	July 26, 1899	.....	.....	.....	175
Granite street.....	Elm to west of Franklin.....	358	May 9, 1899	358	.....	.....	.....
Harrison street.....	Maple to Oak.....	350	Oct. 3, 1899	.....	.....	.....	350
Hayes avenue.....	Old Falls road to Chase avenue	540	Jan. 2, 1899	56	.....	278	206
Mammoth road.....	Massabesic to Nelson.....	1,166	May 9, 1899	.....	.....	.....	1,166
Massabesic street.....	J. Hall to Mammoth road.....	394	" 26, 1899	.....	.....	.....	.....
Oak street.....	Blodget to Brook.....	320	July 2, 1899	252	.....	68	.....
Pine street.....	Silver to Plummer.....	447	Oct. 3, 1899	.....	.....	.....	447
" east back street.....	South of Concord to Concord.....	160	Sept. 12, 1899	.....	.....	.....	160
Plummer street.....	Pine to Union.....	510	Oct. 3, 1899	.....	.....	.....	510
Russell street.....	South of Blodget to Sagamore.....	770	" 3, 1899	.....	.....	.....	770
Second street.....	Cleveland to Bialue.....	243	July 26, 1899	243	.....	.....	.....
" " ".....	North of Frederick to Frederick	118	" 26, 1899	.....	.....	.....	118
Spruce street.....	Elm east back to Elm.....	164	May 9, 1899	164	.....	.....	.....
Summer south back street.....	Wilson to Hall.....	512	Oct. 1, 1899	.....	.....	.....	512
Sylvester street.....	Milford to Avon.....	748	July 26, 1899	202	.....	.....	546
William street.....	" to Mast.....	970	Oct. 3, 1899	448	.....	.....	522
Young street.....	Jewett to Cypress.....	503	May 9, 1899	523	20	.....	.....
		13,919		4,899	134	998	8,156

* Built in 1898.

† Portion built in 1898.

TABLE IV.

SEWERS BUILT IN 1899 WITHOUT AN ORDER.

LOCATION.	LIMITS.	Distance.
Central street	Beacon easterly.....	182
Clay street.	Wilson easterly.....	272
Hanover street*.....	Chestnut easterly.....	176
Merrimack street.....	East of Beacon easterly.....	124
School south back street *..	Turner westerly.....	172
Walker street.....	East of Main easterly.....	142
Wilson street.....	Somerville to Clay	250
		1,318

* For cesspools.

TABLE V.

SEWERS RELAID IN 1899.

LOCATION.	LIMITS.	Distance removed.	Distance built.
Amory south back street....	McGregor westerly	52	52
Douglas street.....	West westerly	94	94
Elm east back street.....	Spnce to Central south back ...	270	270
Green south back street.....	Beech westerly	100	100
Massabesic street.....	Jewett westerly	194	194
		710	710

TABLE VI.

SEWERS ORDERED IN, BUT NOT BUILT TO JAN. 1, 1900.

LOCATION.	LIMITS.	Distance.	Date of order.	
Amherst street.....	Union to Ashland.....	2,600	May	2, 1893
Amory street.....	Alsace easterly.....	200	Sept.	7, 1897
Auburn street.....	Cypress easterly.....	300	May	2, 1899
“ “	East of Canton easterly	90	Nov.	9, 1894
Auburn south back street.	Hall easterly.....	150	Jan.	7, 1896
Beacon street	Amherst to Concord	71	Nov.	10, 1896
“ “	Bridge southerly.....	200	Oct.	3, 1899
Beech street	Harvard to Hayward.....	272	“	4, 1898
Belmont street.....	Old Bridge to Bridge.....	200	Jan.	7, 1896
Blaine street.....	Second to Hiram.....	400	Dec.	6, 1892
Bremer north back street.	Coolidge avenue w. b. to Kimmon	89	Oct.	4, 1898
Bridge street	Belmont to Beacon.....	510	“	3, 1899
Cedar south back street ..	Beech westerly	175	May	5, 1896

TABLE VI.—*Continued.*

SEWERS ORDERED IN, BUT NOT BUILT TO JAN. 1, 1900.

LOCATION.	LIMITS.	Distance.	Date of order.
Central street.....	Belmont to Milton.....	242	Nov. 2, 1897
" ".....	Milton to Beacon.....	311	Sept. 6, 1898
Chestnut street.....	Clarke northerly.....	750	Dec. 6, 1898
Columbus street.....	Amory southerly.....	128	July 26, 1899
Concord street.....	Pine east back to Union.....	152	Sept. 12, 1899
" ".....	Hall easterly.....	86	" 6, 1887
Cypress street.....	Young southerly.....	450	May 9, 1899
Dover street.....	Clinton northerly.....	160	Sept. 4, 1894
Elm street.....	Shasta to Baker.....	106	May 6, 1890
" ".....	Railroad bridge to Elm avenue..	1,373	" 6, 1890
" ".....	Monroe south back to Clarke.....	851	June 4, 1895
" ".....	Trenton to Rowell.....	448	Feb. 4, 1896
Essex street.....	Amory southerly.....	560	Aug. 5, 1898
Foster avenue.....	Valley to Hayward.....	140	July 11, 1896
Frederick street.....	Second easterly.....	175	" 26, 1899
Front street.....	Eddy to north of hotel.....	2,800	Sept. 5, 1893
Grove south back street..	East of Union to Beech.....	302	" 7, 1897
" ".....	Wilson easterly.....	200	Nov. 2, 1897
Hall road.....	Massabesic to Nelson.....	601	Aug. 5, 1898
Hale street.....	Schiller southerly.....	450	Nov. 9, 1894
Hanover street.....	East of Alfred to Highland.....	134	Jan. 4, 1897
Harrison street.....	Maple to Oak.....	350	Oct. 3, 1899
" ".....	Belmont westerly.....	65	Sept. 1, 1896
Harvell street.....	Hale to South Main.....	700	Nov. 9, 1894
Hayes avenue.....	Old Falls road to Chase avenue..	206	Jan. 2, 1899
Hayward street.....	Ainsworth avenue to Cypress....	148	Sept. 7, 1897
Hevey east back street..	Wayne northerly.....	146	Jan. 7, 1896
" ".....	S. of Amory to Columbus avenue	396	July 10, 1893
Jones street.....	Nelson to Benton.....	550	Aug. 5, 1898
Lake avenue.....	East of Canton to Hall road.....	577	Sept. 6, 1898
Mammoth road.....	Massabesic to Nelson.....	1,166	May 2, 1899
" ".....	Nelson northerly.....	590	Aug. 5, 1898
Massabesic street.....	Jewett to Hall road.....	816	" 5, 1898
" ".....	Hall road to Mammoth road.....	934	May 2, 1899
Milford street.....	Amherst road easterly.....	175	Dec. 6, 1898
Nelson street.....	Hall road to Mammoth road.....	570	Aug. 5, 1898
Orange street.....	Belmont westerly.....	65	Feb. 4, 1896
Pine street.....	Silver to Plummer.....	447	Oct. 3, 1899
" east back street....	South of Concord to Concord.....	160	Sept. 12, 1899
Plummer street.....	Pine to Union.....	510	Oct. 3, 1899
Prospect street.....	Hall easterly.....	100	Sept. 3, 1895
Rimmon east back street.	Kelley to Mason.....	800	" 7, 1897
River road.....	Clarke to Park avenue.....	306	Nov. 2, 1897
Russell street.....	South of Blodget to Sagamore....	770	Oct. 3, 1899
Sagamore street.....	Linden westerly.....	148	Nov. 10, 1896
Schiller street.....	Hale to South Main.....	850	" 10, 1896
Second street.....	North of Frederick to Frederick..	118	July 26, 1899
" ".....	South of Schiller to Harvell.....	160	Dec. 3, 1895
Somerville street.....	Union to Maple.....	512	Aug. 2, 1898
Spruce street.....	East of Canton easterly.....	110	Jan. 7, 1896
Summer south back street	Wilson to Hall.....	512	Oct. 3, 1899
Sylvester street.....	Milford to Avon.....	546	July 26, 1899
Union street.....	Clarke to Trenton.....	1,700	" 2, 1895
" ".....	North of Prescott to Hayward....	192	Sept. 7, 1897
" ".....	Silver to Plummer.....	26	" 3, 1895
Union east back street...	South of Christian brook south....	50	Aug. 6, 1895
Valley street.....	Cypress westerly.....	133	Jan. 4, 1897
" ".....	Elm to Wilson.....	4,040	Nov. 7, 1893
Walnut street.....	Salmon southerly.....	105	June 29, 1897
Walnut east back street..	Salmon northerly.....	88	Nov. 10, 1896
West street.....	Clinton northerly.....	226	Sept. 4, 1894
Wentworth street.....	Schiller northerly.....	400	" 5, 1895
William street.....	Milford to Mast.....	522	Oct. 3, 1899
		36,571	

TABLE VII.

SEWERS ORDERED IN UP TO JAN. 1, 1899, NOT BUILT AND NOT NECESSARY.

LOCATION.	LIMITS.	Distance.	Date of order.
Ash east back street.	Concord southerly.....	20	July 26, 1899
Beech street.....	Sagamore southerly.....	112	" 11, 1899
Oak street.....	Brook northerly.....	68	" 26, 1899
Rimmon east back street.	Bremer southerly	58	Sept. 7, 1897
		258	

TABLE VIII.

SEWERS BUILT IN 1898 PENDING PASSAGE OF ORDER IN 1899.

LOCATION.	LIMITS.	Distance.	Date of order.
Beech street.....	Silver to Somerville.....	324	Jan. 2, 1899
" "	North of Blodget northerly	196	July 11, 1899
Hayes avenue.....	Old Falls road to Chase avenue...	278	Jan. 2, 1899
Old Falls road*.....	Spruce to Hayes avenue.....	703	.....
		1,501	

* Order refused passage by board of mayor and aldermen.

SUMMARY.

Table II, column 3 (ordered in to Jan. 1, 1899).....	29,906	
Table II, column 5 (built)		1,487
Table II, column 6 (built in excess of order).....	54	
Table II, column 7 (unnecessary).....		58
Table II, column 8 (not built).....		28,415
Table III, column 3 (ordered in in 1899).....	13,919	
Table III, column 5 (built).....		4,899
Table III, column 6 (built in excess of order).....	134	
Table III, column 7 (unnecessary).....		998
Table III, column 8 (not built).....		8,156
	44,013	44,016
Sewers built in 1899 of those ordered in up to Jan. 1, 1900 (feet)		6,113
Sewers built in 1899 without orders (feet)		1,318
Sewers relaid in 1899 (feet).....		710
Total length of sewers laid in 1899 (feet).....		8,144

ABSTRACT REPORT OF THE COMMITTEE ON STREETS FOR
THE YEAR 1899.

PERSONNEL OF THE COMMITTEE.

Alderman from ward 2, De Lafayette Robinson, chairman.

Alderman from ward 1, John P. Mullen.

Alderman from ward 5, Richard J. Barry.

Alderman from ward 10, Eugene E. Reed.

Clerk of the committee, Samuel J. Lord.

The following tables have been compiled to be used in the annual report of the Engineer's Department in lieu of citing the records of the committee on streets in detail. The tables give all the necessary information pertaining to the petitions that have been acted upon by the committee during the year 1899, also highways laid out, highways widened, and highways discontinued by the board of mayor and aldermen during the year.

Table IX is a list of the petitions for new highways that have been acted upon by the committee during the year.

Table X is a list of the petitions for establishing grade that have been acted upon by the committee during the year.

Table XI is a list of miscellaneous petitions acted upon by the committee during the year.

Table XII is a list of highways that have been laid out during the year by the board of mayor and aldermen.

Table XIII is a list of highways widened and straightened during the year by the board of mayor and aldermen.

Table XIV is a list of highways discontinued during the year by the board of mayor and aldermen.

Distances are given in feet.

PETITIONS FOR NEW HIGHWAYS ACTED UPON BY COMMITTEE ON STREETS DURING YEAR 1899.

LOCATION.	LIMITS.	Dis- tance.	Width.	Petition of	Date of petition.	Withdraw.	Granted.
Adams street *	825 feet south of Carpenter to Carpen-	825.00	50	Joseph Kladder	May 22, 1899	.....	Sept. 19
Adams street	Carpenter to Trenton	480.00	50	H. J. Lawson	April 29, 1897	.....	May 24
Ash street	90 feet north of Sagamore to Salmon.	300.00	50	J. W. Fellows	" 28, 1899	.....	" 24
Barb street	Plate's avenue to Hall road.	210.00	50	Chas. H. Reed	July 29, 1899	Sept. 19	.....
Barb street	Conant to Granite.	500.00	40	Andrew Thompson	May 12, 1899	.....	June 27
Barb street	Carpenter to 590 feet south	590.00	40	Fred K. Ramsey	July 31, 1899	.....	Sept. 19
Belmont street †	Clay to Howe	449.56	50	Agnes J. Phillips	May 17, 1899	.....	Aug. 18
Clay street	Wilson to Hall	511.66	50	Wm. Mahoney	Oct. 13, 1898	.....	Sept. 19
Columbus street.	Amory to 300 feet south	300.00	50	Martin Lyons	Mar. 24, 1899	.....	May 24
Cypress street *	Clay to Vinton	1,918.00	50	R. P. Stevens	Aug. 16, 1898	.....	Sept. 12
Douglas street	Barr to Quincy	606.00	40	Andrew Thompson	May 5, 1899	.....	June 27
Dubouque street	Quincy to Railroad	250.00	40	Lottie B. Ring	" 12, 1899	.....	Aug. 18
" east back †	Kelley to Bruner	600.00	50	John Corliss	Oct. 12, 1897	.....	May 24
George street \$	Pittman to Wayne	550.00	20	Jos. H. Richer	April 21, 1899	.....	Aug. 18
Hall street *	Milford to Old Bedford road	1,059.00	40	Clinton H. Bixby	" 10, 1899	.....	May 24
Hall street	Somerville to Vinton	2,480.00	50	R. P. Stevens	Aug. 16, 1898	.....	Sept. 12
Harvard street †	Prospect to Gore	1,019.00	50	Edward Belanger	Oct. 5, 1897	.....	Aug. 18
Harvard street	Maple to 225 feet east	225.00	50	Chas. E. Lessard	May 9, 1899	.....	Sept. 19
Old Falls road	Wilson to Hall	511.66	50	Alfred D. Plummer	June 30, 1899	.....	Dec. 8
Ray street	Spruce to Massabesic	633.21	40	F. M. Golings	Sept. 28, 1899	.....	June 27
Readley street	Clarke to 322 feet north	392.00	50	H. A. Farrington	May 15, 1899	.....	Sept. 19
Salmon street	Elm to River road	362.39	50	Daniel Readey	Aug. 15, 1899	.....	May 24
Sullivan street	Beech to Ash	920.00	50	J. W. Fellows	April 28, 1899	.....	Aug. 18
Thornton street \$	Bartlett to so. line of M. & N. W. R. R.	1,016.00	50	Chas. H. Sweatt	July 27, 1899	Aug. 18	.....
Trenton street †	Pittman to Wayne	504.33	50	Romuald Paquette	April 10, 1898	.....	Sept. 19
Wayne street \$	Elm to River road	365.00	50	Albert O. Brown	Sept. 19, 1898	.....	Aug. 18
West Appleton street	Thornton to Bartlett	200.00	50	Romuald Paquette	April 10, 1899	.....	June 27
William street	Elm to 150 feet west	150.00	40	Geo. H. Stearns	May 18, 1899	.....	.....
	Milford to Mast	925.00	45	John A. Riddle	April 3, 1897	May 24	.....
		18,152.81					

* Laid over June 27 and August 18.

† Laid over August 18.

‡ Laid over June 27.

§ Laid over May 24.

§§ Laid over May 24 and June 27.

Whole number of highway petitions acted upon

Granted leave to withdraw

Granted a hearing

Total length of highways petitioned for

Granted leave to withdraw

Granted a hearing

3,238.33

14,914.48

18,152.81

TABLE No. X.

PETITIONS FOR ESTABLISHING GRADE ACTED UPON BY COMMITTEE ON STREETS DURING 1899.

LOCATION.	LIMITS.	Dis- tance.	Width.	Petition of	Date of petition.	Withdraw.	Granted.
Adams street*.....	Clarke to Carpenter.....	1,162.00	50	Joseph Kidder.....	May 22, 1899	.....	Sept. 19
Adams street†.....	Carpenter to Trenton.....	480.00	50	H. J. Lawson.....	July 11, 1899	.....	19
Ash street.....	Blodgett to Sagamore.....	460.77	50	M. D. Johnson.....	Aug. 28, 1899	.....	" 19
Ashland street.....	Sagamore to Salmon.....	340.00	50	J. W. Fellows.....	April 25, 1899	.....	May 24
Barr street.....	Hanover to Amherst.....	281.00	50	L. P. LaBonte.....	Nov. 5, 1898	.....	27
Beech street.....	Douglas to Conant.....	205.63	40	Andrew Thompson.....	May 5, 1899	.....	June 24
"	Valley to Somerville.....	1,701.00	50	Timothy Shea.....	July 28, 1899	.....	Aug. 18
Belmont street.....	Blodgett to Sagamore.....	451.00	50	John H. Maynard.....	April 17, 1899	.....	June 27
Belmont street†.....	Clay to Howe.....	374.55	50	Agnes J. Phillips.....	May 17, 1899	.....	Aug. 18
Cartier street.....	Kelley to Coolidge avenue.....	396.00	50	Nazaire Morin.....	April 15, 1899	.....	May 21
Cilley road.....	Jewett to Mammoth road.....	2,869.00	50	N. W. Paige.....	June 3, 1899	.....	Aug. 18
Clay street.....	Wilson to Hall.....	461.68	50	Wm. Mahoney.....	Oct. 13, 1898	.....	Sept. 19
Colby street.....	West Hancock to Log.....	920.00	40	Sturtevant, Crafts &.....	May 24, 1899	.....	Aug. 18
Columbus street.....	Amory to 300 feet south.....	300.00	50	Martin Lyons.....	Mar. 24, 1899	.....	May 24
Cypress street.....	Luke avenue to Spruce.....	231.09	50	C. G. Hastings.....	May 17, 1899	.....	Aug. 18
"	Spruce to Auburn.....	449.00	50	M. E. Clough.....	" 17, 1899	.....	18
Cypress street.....	Clay to Vinton.....	1,868.00	50	R. P. Stevens.....	Aug. 16, 1898	.....	Sept. 12
Douglas street.....	Quincy to railroad.....	220.00	40	Lottie B. Ring.....	May 12, 1899	.....	Aug. 18
Foster avenue.....	Valley to Hayward.....	490.16	30	Joshua B. Morse.....	" 17, 1899	.....	" 18
Granite street.....	Barr to Green.....	277.00	40	Mrs. S. E. Chamberlin.....	July 17, 1899	.....	" 18
Green street.....	Green to Quincy.....	253.00	40	James McCardell.....	July 22, 1899	.....	" 18
Hall street.....	Pine to Union.....	450.00	50	Thos. Manning.....	" 10, 1899	.....	" 18
Hanover street.....	Somerville to Vinton.....	2,430.00	50	R. P. Stevens.....	Aug. 16, 1898	.....	Sept. 12
"	Maple to Lincoln.....	549.60	50	Maurice L. Hoitt.....	July 7, 1899	.....	Aug. 18
"	Lincoln to Wilson.....	628.00	50	John H. Maynard.....	May 18, 1899	.....	18
Harrison street.....	Ashland to 200 feet east.....	200.00	65	L. P. LaBonte.....	Nov. 7, 1898	.....	May 24
Harrison street†.....	Maple to Oak.....	300.00	50	Lawrence Connor, Ex.....	June 21, 1899	.....	Sept. 19
Harvard street.....	Hall to Belmont.....	314.00	50	A. L. Belanger.....	Nov. 2, 1898	.....	May 24
Harvard street†.....	Maple to 200 feet east.....	200.00	50	Charles E. Lessard.....	May 9, 1899	.....	Sept. 18
Highland Park ave.....	Wilson to Hall.....	461.65	50	Alfred D. Plummer.....	June 30, 1899	.....	Sept. 19
Lake avenue†.....	Candia road to C. & P. R. R.....	1,234.00	50	Geo. W. Humlin.....	Sept. 18, 1897	.....	May 24
Merrill street.....	Hall to Holmont.....	303.00	50 to 40	Henry J. Mara.....	May 10, 1899	.....	Aug. 18
Myrtle street.....	Jewett to 350 feet east.....	350.00	50	William E. Simpson.....	Feb. 28, 1899	.....	18
North street.....	Union to Walnut.....	220.00	50	H. T. Boutwell.....	May 3, 1899	.....	June 27
Oak street.....	" ".....	220.00	50	George L. Kibbee.....	" 4, 1899	.....	27
"	Harrison to Blodgett.....	700.00	50	L. A. & W. Cogswell.....	" 3, 1899	.....	27

Oakland avenue	1,343.00	George W. Hamlin	Sept. 18, 1897	.....	May	24
Old Falls road †.....	633.21	F. M. Goligs	May 11, 1899	.....	Aug.	18
Onelda street	1,570.00	John K. McQuesten.....	June 5, 1899	.....	June	27
Porter street	1,091.50	N. W. Paige.....	June 6, 1899	.....	Aug.	18
Prospect street	565.00	A. H. Weston.....	May 10, 1899	.....	June	27
Quincy street	100.00	Lottie B. King.....	" 5, 1899	.....	"	27
Ray street.....	367.00	H. A. Farrington	" 16, 1899	.....	Sept.	19
Readley street †.....	362.39	Daniel Readey.....	July 11, 1899	.....	"	19
Russell street.....	491.52	James F. Howe	Aug. 7, 1899	.....	May	24
Sulmon street.....	220.00	J. W. Fellows	April 28, 1899	.....	Aug.	18
Union street	220.00	Thos. Manning	July 10, 1899	.....	June	27
Walnut street.....	607.00	E. L. Lodge	April 24, 1899	.....	"	27
West Appleton street	220.00	H. T. Bortwell	May 3, 1899	.....	"	27
Elm to 150 feet west	150.00	Geo. H. Stearns	" 18, 1899	.....	"	27
	<u>29,990.52</u>					

* Laid over June 27 and August 18.

† Laid over August 18.

† Laid over June 27.

SUMMARY.

Whole number of grade petitions acted upon.....	50	Total length of highway grades petitioned for	29,990.52
Granted leave to withdraw	0	Granted leave to withdraw	0
Granted a hearing	50	Granted a hearing	29,990.52
	<u>50</u>		<u>29,990.52</u>

TABLE No. XI.
MISCELLANEOUS PETITIONS ACTED UPON BY THE COMMITTEE ON STREETS DURING 1899.

LOCATION.	LIMITS.	Dis- tance.	Petition of	Date of petition.	Withdraw.	Granted.
Granite street*	At Manchester & North Weare Railroad		Allen N. Clapp	June 5, 1899	.....	Aug. 18
New Mast road†	Mast to old Bedford-Goffstown line	1,426.04	Hiram S. Hoitt	" 2, 1899	.....	June 27
Old Falls road†	Lake avenue to Central	305	E. Richards	Mar. 10, 1899	May 24	.....
Railroad street‡	Near end of Bartlett		Gustav Theurner	May 26, 1899	.....	June 27
		1,731.04				

* Petition for highway bridge across railroad tracks.

† Petition for widening and straightening.

‡ Petition for discontinuance.

§ Claim for damages resulting from flowage.

SUMMARY.

Highway petitions	29	6	79	6	23
Withdraw					50
Granted		23		4	
Grade petitions	50	0		1	3
Withdraw					
Carried forward	79	6	83	7	76

Brought forward

Granted

Miscellaneous petitions

Withdraw

Granted

TABLE No. XII.

HIGHWAYS LAID OUT IN 1899 BY THE BOARD OF MAYOR AND ALDERMEN.

LOCATION.	LIMITS.	Length.	Width.	Laid out.	Petition of	Date of petition.	Hearing recommended.
Adams street	Carpenter to Trenton.....	480.00	50	July 7	H. J. Lawson	April 29, 1897	May 24, 1899
Albert street	Harrison to Brook.....	380.00	44	May 16	E. A. Straw estate.....	Oct. 11, 1898	Nov. 17, 1898
Amherst street	Gertrude to Salisbury.....	480.00	50	Aug. 11	Charles Williams	Aug. 1, 1898	Aug. 9, 1898
Ash street	50 feet north of Sagamore	300.00	50	July 7	J. W. Fellows	April 21, 1899	May 24, 1899
Ray street	Carpenter to 590 feet south.....	590.00	50	Oct. 24	Fred K. Ramsey	July 31, 1899	Sept. 19, 1899
Belmont street.....	Clay to Howe	449.56	50	Nov. 7	Agnes J. Phillips	May 13, 1899	Aug. 18, 1899
Clay street	Wilson to Hall.....	511.66	50	"	William Mahoney	Oct. 7, 1898	Nov. 17, 1898
"	Cypress to 531.27 feet west	531.27	50	May 16	C. S. Magrath	"	Nov. 17, 1898
Columbus street	Amory to 300 feet south.....	360.00	50	July 7	Martin Lyons	Mar. 24, 1899	May 24, 1899
Cypress street	Clay to Vinton.....	1,918.00	50	Oct. 13	R. P. Stevens	Aug. 16, 1898	Sept. 12, 1899
Dix street.....	Cypress to Taylor.....	796.05	50	May 16	C. S. Magrath.....	Oct. 7, 1898	Nov. 17, 1898
Dubuque street.....	Kelley to Brewer	600.00	50	Oct. 24	John Corliss	" 12, 1897	May 24, 1899
" east back street	Putnam to Wayne	550.00	20	Dec. 8	Jos. H. Richer	April 21, 1899	Aug. 18, 1899
Garmon street.....	Hanover to Amherst	381.00	40	Aug. 11	Alex. N. Lang	May 27, 1898	" 9, 1898
Gertrude street	"	365.00	40	July 28	G. A. Hall	" 27, 1898	" 9, 1898
Howe street	Cypress to Taylor	795.98	50	May 16	C. S. Magrath.....	Oct. 7, 1898	Nov. 17, 1898
Oakland avenue	Mammoth road to A. W. Palmer land.....	520.53	50	"	Melvin Hall	" 17, 1898	" 17, 1898
Old Amherst road	Mast to Carroll	276.00	33	June 13	C. A. Brooks	Sept. 29, 1898	" 17, 1898
Oneida street	South Main to Harriman.....	1,615.00	50 and 40	May 16	John K. McQuesten.....	Oct. 28, 1898	" 17, 1898
Ray street	Clarke to 392 feet north	392.00	50	Aug. 25	H. A. Farrington	May 15, 1899	June 27, 1899
Readey street	Elm to River road	362.39	50	Oct. 31	Daniel Readey	Aug. 15, 1899	Sept. 19, 1899
Russell street	Sagamore to Am. Mfg. Co.'s line.....	111.29	50	May 16	S. H. Sterling	Sept. 29, 1898	Nov. 17, 1898
Salisbury street.....	Hanover to Amherst	397.00	40	July 28	Charles Williams	Aug. 1, 1898	Aug. 9, 1898
Salmon street.....	Beech to Ash	220.00	50	"	J. W. Fellows	April 28, 1899	May 24, 1899
Silver street.....	Wilson to Hall.....	511.66	50	Oct. 13	Albert Reed	June 15, 1899	To M. and Ald.
West Appleton street	Elm to 150 feet west	150.00	40	Aug. 25	George H. Stearns.....	May 18, 1899	June 27, 1899
William street.....	Milford to Mast	925.00	45	May 26	Cornelia S. Pollard.....	Sept. 10, 1898	Nov. 17, 1898
		14,969.39					

* Referred direct to board of mayor and aldermen August 11, 1899.

TABLE No. XIII.
HIGHWAYS WIDENED AND STRAIGHTENED IN 1899 BY THE BOARD OF MAYOR AND ALDERMEN.

LOCATION.	LIMITS.	Length.	Square feet.	Laid out.	Petition of	Date of petition.	Hearing recommended.
Massabesic street.....	Cypress 17 48 feet easterly	17.48	25.83	June 13	Joseph Wilkins.....	Sept. 9, 1898	Nov. 17, 1898
New Mast road.....	Mast to old Goffstown-Bedford line....	1,426.04	.....	Sept. 29	Hiram S. Hoitt.....	June 2, 1899	June 27, 1899
			1,443.52				

TABLE No. XIV.
HIGHWAYS DISCONTINUED IN 1899 BY THE BOARD OF MAYOR AND ALDERMEN.

LOCATION.	LIMITS.	Length.	Discontinued.	Petition of	Date of petition.	Hearing recommended.
New Mast road*.....	Mast to old Goffstown-Bedford town line.....	1,426.04	Oct. 24	C. H. George	Oct. 2, 1899	To M. and Ald.

* Referred direct to board of mayor and aldermen October 24, 1899. Refers to portion between old layout and present layout.

ABSTRACT REPORT OF THE BOARD OF EXAMINERS OF PLUMBERS.

In accordance with an act (chapter 55, Laws of 1899) passed by the New Hampshire state legislature, entitled "An act authorizing the examination of plumbers and regulating the practice of plumbing and house draining," a board of examiners of plumbers was appointed by His Honor Mayor William C. Clarke of Manchester, N. H., as follows: William K. Robbins of the board of health, Christian L. Wolf, a master plumber, and Samuel J. Lord, city engineer. (William K. Robbins, president; Samuel J. Lord, clerk.)

Following is a statement of the expenditures of the board for the year 1899:

NATE KELLOGG COMPANY.

1899.

Aug. 18.	To ptg. 250 master plumbers' certificates..	\$6.75	
	ptg. 250 journeymen plumbers' certificates	5.25	
	ptg. 300 master plumbers' applications	6.75	
	ptg. 300 journeymen plumbers' applications	5.50	
Oct. 5.	ptg. 200 plumbers' applications.....	6.50	
Nov. 10.	ptg. 250 master plumbers' licenses.....	6.00	
	ptg. 250 journeymen plumbers' licenses	4.75	
			<hr/>
			\$11.50

CARL O. SEAMAN.

Oct. 18.	To plumbing material and tools for board of plumbing examiners	\$2.35
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PIKE & HEALD COMPANY.

Oct. 19.	To 1 fire pot.....	\$5.50
	1 4-inch lead pot.....	.50
	40½ pounds lead pipe @ 6¾c.....	2.73
	4 4-inch brass ferrules, E. H., @ 50c.....	2.00
	13 pounds wiping solder.....	3.25
	14-16 pound stick solder @ 28c.....	.25
	17 pounds block lead @ 5½c.....	.94
	2 gallons gasoline @ 20c.....	.40
	2½ gallons tar.....	.75
	5 pounds putty @ 4c.....	.20
	6 sheets sandpaper @ 2c.....	.12
	1 pound sheet lead.....	.08
	4 pieces 4-inch soil pipe St. 12 inches long, with hub, @ 32.....	1.28

Oct. 19.	To 4 pieces 4-inch soil pipe 12 inches long, less hubs	\$0.28	
	2 feet 4-inch soil pipe, less hubs, @ 25c..	.56	
	1 pound oakum.....	.10	
			<u>\$18.94</u>

JOHN B. CLARKE COMPANY.

Oct. 24.	To $\frac{1}{6}$ expense ptg. 600 rules and regulations	\$3.83	
	$\frac{1}{6}$ expense binding 100 rules and regula- tions, leather	2.76	
			<u>\$6.59</u>

PIKE & HEALD COMPANY.

Nov. 29.	To $1\frac{3}{4}$ pounds stick solder @ 25c.....	\$0.49	
	$\frac{1}{4}$ pound brimstone .....	.05	
			<u>\$0.54</u>

SAMUEL J. LORD.

Dec. 19.	To expenses of board of examiners of plumbers to Concord and return, paid by S. J. Lord.....		\$2.94
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GEORGE W. WALES.

Dec. 20.	To express on box to state board of health..	\$0.36	
21.	express on box from state board of health	.35	
			<u>\$0.71</u>

TEMPLE & FARRINGTON.

Dec. 26.	To 1 record book No. 5646.....	\$9.00	
	binding 2 books @ \$1.50.....	3.00	
	4 boxes letter paper @ \$1.....	4.00	
			<u>\$16.00</u>

PIKE & HEALD COMPANY.

Dec. 26.	To $19\frac{2}{3}$ pounds wiping solder @ 25c.....	\$4.92	
	2 pounds fine solder @ 25c.....	.56	
	4 feet 4-inch lead pipe and 10 feet $1\frac{1}{4}$ -inch lead pipe, 51 pounds C., @ $6\frac{3}{4}$ c.....	3.45	
	4 feet 4-inch soil pipe, less hub, @ 20c....	.80	
	1 pound oakum .....	.10	
	2 2-inch brass ferrules @ 30c.....	.60	
			<u>\$10.43</u>
			<u>\$100.00</u>

SUMMARY.

Appropriated to the board of examiners of plumbers for the year 1899.....	\$100.00	
Expenses of the board during the year 1899.....		<u>\$100.00</u>
	<u>\$100.00</u>	<u>\$100.00</u>

Fees received for 100 plumbers' certificates @ \$1 (a fee of \$1 per certificate is required by state law).....	\$100.00
Fees received for 3 plumbers' licenses @ \$1 (required by law)..	3.00
<hr/>	
Paid to the city clerk (the state law requires all fees to be paid into the city treasury).....	\$103.00

Table XV gives the name, address, and number of the application of each and every person making application to the board for a plumber's certificate. This table also gives the class of certificate applied for (master or journeyman), the number of the certificate, date of issue, and expiration of said certificate, also the fee paid by the applicant.

Table XVI gives the name, address, and number of the application of each and every person making application to the board for a plumber's license during the year 1899. This table also gives the class of license applied for (master or journeyman), the number of the license granted, date of issue, and expiration of said license, also the fee paid by the applicant.

Table XVII is a summary of Tables XV and XVI.

[illegible]

TABLE No. XV.—Continued.

NAME.	RESIDENCE.	No. of ap- plication.	Fee received.	Class of plumber.	No. of cer- tificate.	Date of issue.	Date of ex- piration.
Rivard, Zephirin H.	Hooksett road, Manchester, N. H.	11	\$1.00	Journeyman.	11	Aug. 31, 1899	Aug. 31, 1900
Seaman, Carl O.	14 South street,	93	1.00	"	57	" 31, 1899	" 31, 1900
Seaward, Chester L.	296 Orange street,	12	1.00	"	12	" 31, 1899	" 31, 1900
Snaden, George W.	373 Bridge street,	13	1.00	"	13	" 31, 1899	" 31, 1900
Spaulding, Wesley L.	414 Belmont street,	48	1.00	Master.	38	" 31, 1899	" 31, 1900
Stratton, Hervey	32 Quiney street,	55	1.00	"	78	" 31, 1899	" 31, 1900
St. Peter, Edward	24 Granite street,	88	1.00	Journeyman.	52	" 31, 1899	" 31, 1900
Tangney, Dennis J.	169 Central street,	1	1.00	"	1	" 31, 1899	" 31, 1900
Thornton, John J.	355 Concord street,	45	1.00	"	87	" 31, 1899	" 31, 1900
Van Brocklin, George	61 Nashua street,	6	1.00	"	6	" 31, 1899	" 31, 1900
Ward, Thomas E.	441 Amherst street,	49	1.00	"	39	" 31, 1899	" 31, 1900
Wolf, Adolph A.	38 Clinton street,	69	1.00	"	45	" 31, 1899	" 31, 1900
" Christian L.	"	15	1.00	Master.	15	" 31, 1899	" 31, 1900
" M. Bernhard	265 Turner street,	103	1.00	Journeyman.	56	" 31, 1899	" 31, 1900
Worthen, Albert L.	Cilley road,	21	1.00	"	20	" 31, 1899	" 31, 1900
		65	.....	Master.	.....	.....	.....
		83	.....	"	.....	.....	.....
		56	.....	Journeyman.	.....	.....	.....
		82	.....	Master.	.....	.....	.....
		70	.....	Journeyman.	.....	.....	.....

TABLE No. XVI.

NAME.	RESIDENCE.	No. of ap- plication.	Fee received.	Class of plumber.	No. of license.	Date of issue.	Date of ex- piration.
Garland, James O.	Hooksett, N. H.	3	\$1.00	Journeyman.	2	Dec. 1, 1899	Aug. 31, 1900
Knoettner, Fred O.	326 No. Main street, Manchester, N. H.	2	.....	Master.	.....	.....	.....
Seaman, Carl O.	14 South street,	1	1.00	Journeyman.	3	Dec. 1, 1899	Aug. 31, 1900
		4	1.00	Master.	1	" 1, 1899	" 31, 1900

TABLE No. XVII.

SUMMARY OF TABLE NO. XV.		SUMMARY OF TABLE NO. XVI.	
Applications for master plumber's certificates received	46	Applications for master plumber's license received	2
" for journeyman plumber's certificates received	59	" for journeyman plumber's license received	2
" for master plumber's certificates granted	43	" for master plumber's license granted	1
" for journeyman plumber's certificates granted	57	" for journeyman plumber's license granted	2
" for master plumber's certificates denied	3	" for master plumber's license denied	1
" for journeyman plumber's certificates denied	2	" for journeyman plumber's license denied	0
<u>105</u>	<u>105</u>	<u>4</u>	<u>4</u>

Rules of Procedure adopted by the Board of Examiners of Plumbers, Manchester, N. H.

ARTICLE I.

SECTION 1. The board shall hold their regular meetings upon the first Friday of each month, at 7.30 o'clock P. M., at their office in the Engineer's Department, City Hall, Manchester, N. H.

SECT. 2. The officers shall consist of a president and clerk, elected annually at the regular meeting in August.

SECT. 3. The president shall call all meetings, preside and assume the direction of the Board; the clerk shall keep all records. The president may call a meeting of the Board at any time by notifying the clerk; the clerk shall then notify the other members of the Board. The clerk shall also give notice of the regular meetings.

ARTICLE II.

SECTION 1. Applications for examinations will be received at any regular meeting.

SECT. 2. Applications must be made out in full upon application blanks furnished by the Board. Each application must be accompanied by the fee of \$1.00 (required by law) before being received by the Board.

SECT. 3. The examination shall consist of written, oral, and practical exercises of such character to fairly test the fitness and qualifications of the applicant for the trade, business, or calling of plumbing.

ARTICLE III.

SECTION 1. In the practical examination each applicant will be required to make at least three different kinds of wiped joints and calk one joint in cast-iron soil pipe.

SECT. 2. Each wiped joint shall be marked according to the following schedule (the number of points as set forth opposite each item being the maximum, the minimum being 0):

POINTS FOR WIPED JOINTS.

No. 1.	For strength	5
2.	For shape	3
3.	For smoothness inside pipe at joint.....	3
4.	If no solder runs inside pipe.....	3
5.	If a small amount of solder runs in.....	2
6.	For smoothness outside or uncacked joint.....	4
7.	For straightening and dressing pipe.....	1
8.	For tempering solder.....	1
9.	For straight inserting and preparing ends of pipe.....	2
10.	For setting up work.....	1
Total		25

If a hole is burnt in pipe, deduct Nos. 1, 2, 3, 4, and 5. If much solder runs in, deduct Nos. 4 and 5.

Each calked joint shall be marked according to the following schedule (the number of points as set forth opposite each item being the maximum, the minimum being 0):

POINTS FOR CALKED JOINTS, HORIZONTAL.

No. 1.	For rolling cakum, and tamping even thickness.....	3
2.	For calking lead without cracking hub.....	2
3.	For running molten lead with one pour.....	3
4.	For waiting for lead to cool.....	1
5.	For trimming off surplus lead.....	1
6.	For calking lead home.....	2
7.	If no oakum shows inside pipe, or no lead runs in.....	5
8.	If calked joint stands the water test.....	5
9.	If joint is full and even all way round.....	2
10.	If lead is calked without being all hacked up.....	1
Total		25

If the hub is cracked by calking the lead or oakum improperly, deduct Nos. 2, 6, 8, and 9.

The total number of points for all joints shall be added, multiplied by four, and divided by the number of joints made. This result shall be the standing or per cent obtained in the practical examination on the basis of 100 per cent for a perfect examination.

SECT. 3. The written examination shall consist of at least twenty questions for an applicant for a journeyman plumber's license, and at least thirty questions for an applicant for a master plumber's license. The written examination shall be marked 100 per cent for a perfect paper, each question having equal weight.

SECT. 4. The oral examination shall consist of questions asked by the members of the Board, and the inspection of such charts pertaining to plumbing systems as the Board may submit. The applicant shall be marked 100 per cent, for a perfect oral examination.

SECT. 5. The applicant (if for a journeyman plumber's license) shall not fall below 70 per cent in the practical examination, 40 per cent in the written examination, and 50 per cent in the oral examination.

SECT. 6. The applicant (if for a master plumber's license) shall not fall below 70 per cent in the practical examination, 70 per cent in the written examination, and 70 per cent in the oral examination.

SECT. 7. The standing or per cent obtained in the practical, written, and oral examinations shall in all cases be added together and divided by three, this result being credited as the standing obtained by the applicant.

SECT. 8. The standing of each and every applicant shall be at least 70 per cent; otherwise the applicant shall be refused a license and his fee of \$1.00 returned to him.

SECT. 9. Falsehood or fraud in the application or examination shall be cause for dismissal of the application and refusal of a license.

SECT. 10. When an applicant fails to pass the requisite examination he shall not be entitled to undergo another examination for a period of one year.

SECT. 11. The names and standing of all persons examined shall be formally entered upon the records of the Board.

To His Honor the Mayor, the Board of Aldermen, the gentlemen of the Common Council, and the various committees with whom it has been my pleasure to come in contact, I wish to express my appreciation of the valued assistance and support you have rendered me during the year.

My acknowledgments are due to the gentlemen of the Street and Park Commission, for their courtesy, consideration, and co-operation in matters in which we were mutually concerned.

SAMUEL J. LORD,
City Engineer.

REPORT

OF THE

CHIEF ENGINEER OF FIRE DEPARTMENT.

REPORT OF FIRE ENGINEER.

CHIEF ENGINEER'S OFFICE,
CENTRAL STATION, NO. 8 VINE STREET.

MANCHESTER, N. H., December 31, 1899.

To His Honor, William C. Clarke, Mayor, and Gentlemen of the City Council:

In compliance with the Laws and Ordinances of the city of Manchester, I herewith submit my twenty-first annual report, it being the fifty-fourth of this city, for the year ending December 31, 1899.

During the year just closed we had one hundred ninety (190) alarms, consisting of seventy-four (74) bell alarms and one hundred sixteen (116) still alarms. There were four "second alarms," each of which is reckoned as an alarm in the foregoing list, and one was an "out of town" call for a brush fire in Amoskeag, on the Goffstown road.

One of the second alarms, box 217, January 2, was needless and pulled by a person not connected with the department; one from box 4, July 6, when the tenement district of Spruce street and Lake avenue was threatened with a conflagration; one from box 21, October 30, for wood yard and tenement blocks at No. 168 Lake avenue; the fourth from box 21 for fire in tenement block at the corner of Pine and Central streets.

Notwithstanding the number of alarms has been greater than last year and the amount of property endangered larger, the net losses are only \$7,912.09 over and above the insurance paid.

The following is a summary of the value of property endangered where the department has been called (not including value where merely chimney fires have occurred), amount of insurance carried, amount paid, and net losses:

Value of buildings.....	\$503,850.00
Value of contents.....	179,208.00
	<u>\$683,058.00</u>
Insurance on buildings.....	\$324,250.00
Insurance on contents.....	105,450.00
	<u>\$429,700.00</u>

Damage to buildings.....		\$29,075.07
Damage to contents.....		30,255.88
		<hr/> \$59,330.95
Insurance paid on buildings.....	\$27,218.55	
Insurance paid on contents.....	24,200.31	
	<hr/>	51,418.86
Net loss uncovered by insurance.....		<hr/> <hr/> \$7,912.09

THE MANUAL FORCE

Of the department remains unchanged from last year and consists of one hundred sixty (160) members, including one hundred twenty-seven (127) call and thirty-three (33) permanent men, and is divided as follows:

	Call.	Per- manent.
1 chief engineer.....		1
4 assistant engineers.....	4	
Engine Company No. 1.....	11	3
Engine Company No. 2.....	11	3
Engine and Ladder Company No. 3.....	15	5
Engine Company No. 4.....	11	3
Engine and Ladder Company No. 5.....	16	4
Engine and Ladder Company No. 6.....	16	4
Hose Company No. 1.....	11	1
Hose Company No. 2.....	11	1
Hose Company No. 3.....	6	2
Aërial Truck No. 1.....	12	3
Chemical No. 1.....	3	2
Spare driver		1
	<hr/> 127	<hr/> 33

THE BUILDINGS

Are in fair repair. The repairs during the year have been promptly made by the committee on lands and buildings, and to such an extent as the appropriations would allow, although none of the additions recommended for the past two years for box stalls at Engine and Ladder Nos. 5 and 6, nor storage shed for Hose No. 3 have received any attention, simply for "lack of funds."

THE APPARATUS

Of the department consists of 2 first size, 3 second size, and 1 third size Amoskeag engines, 4 hose carriages with reels, 5 hose wagons (one of which has ladders attached), 4 hook and ladder trucks, 1 of which is an eighty-five-foot aërial truck carrying other ladders, 2 hose carriages in outlying districts, with independent companies attached, 2

hose carriages without companies, 1 supply wagon, 7 exercise wagons, located as follows:

2 first size steam fire-engines, with three-horse hitch, at Central station, each with one-horse hose wagon.

1 second size steam fire-engine, three-horse hitch, with 1 two-horse hose wagon, North Main street.

1 second size steam fire-engine and 1 two-horse hose wagon, at corner Lake avenue and Massabesic street.

1 two-horse ladder truck at same station.

1 third size steam fire-engine and one-horse hose carriage, at corner of Webster and Chestnut streets.

1 two-horse ladder truck at same station.

1 second size steam fire-engine and one-horse hose carriage on Rimmon street, corner of Amory street.

1 two-horse ladder truck at same station.

1 one-horse hose carriage, corner Maple and East High streets.

1 two-horse combination hose wagon, So. Elm street. (Bakersville.)

1 aërial hook-and-ladder truck at Central station (three-horse hitch).

1 double tank (60 gallons each) chemical engine at Central station.

1 supply wagon at Central fire station.

1 steam fire-engine (reserve) at station of Engine No. 2 (of but little use for fire purposes).

1 four-wheeled hand hose carriage (with shafts) at junction of Old Falls road and Front street, Amoskeag.

1 two-wheeled hose carriage, Devonshire Mills, Goffe's Falls.

1 two-wheeled hose carriage in basement of stable of W. P. Farmer at junction of Candia road and Hanover street.

1 two-wheeled hose carriage, junction Mammoth road and Massabesic street (Hallsville).

7 exercise wagons, 1 at Central fire station, 1 at Engine No. 2, 1 at Engine and Ladder No. 3, 1 at Engine and Ladder No. 5, 1 at Engine and Ladder No. 6, 1 at Hose No. 2, 1 at Hose No. 3, 1 repair wagon for fire alarm telegraph.

Engine No. 6, that was undergoing repairs at the time of my last report, has been supplied with a new boiler, new and improved composition pumps, and is really in better working condition than ever before.

Engine No. 1 has undergone some repairs which will probably lengthen its time of service before more extensive repairs will be required.

FIRE ALARM TELEGRAPH.

The storage battery has proved a success as well as an economical investment. Its current is strong and steady and can be easily controlled at the switch-board.

A portion of the mechanical work of the Myrtle-street tower striker has been replaced with modern appliances, insuring more accuracy in its working.

On the 20th of July, box 241 was connected in No. 6 circuit, on Lake avenue hill, near Canton street.

We have run about 3 miles of new wire, set 13 new poles, changed wire in many places to new telephone and electric light poles, put up 103 cross-arms, 30 extension arms. We have about 46 miles of main line and 38 miles of "Tapper" line wire.

THE HORSES.

Thirty-nine (39) horses are required for active service on the apparatus, with one "spare," whose services are required most of the time in place of horses disabled, and several times during the year other horses had to be hired for the same purpose.

We now have several horses unfitted for fire duty by long and continued service, and several should be replaced by sound and younger ones.

CASUALTIES.

No fatal accidents have occurred to members of this department, but two citizens have lost their lives from burns received. April 6, Mr. John C. McKeon was so severely burned at a fire in his house that he died early the following morning. November 15, Mr. John Morrison, a boarder at No. 144 Central street, died from effects of burns and suffocation the afternoon of the same day.

At an alarm from box 25, on March 3, for a fire in a house owned by the heirs of Horace Stearns, a hot-air explosion occurred, hurling several firemen out through the doors and windows, but fortunately no one was seriously injured.

March 14, at an alarm from box 17, for a fire in the barn of Michael Connor, 509 Beech street, Fireman Herbert E. Dunbar of Engine and Ladder Company No. 3 was thrown from the truck, receiving injuries restraining him from work three weeks.

July 4, at an alarm from box 52, for a fire in tenement house Nos. 22 and 24 Dover street, Henry C. Morrill, engineer of Steamer No. 2, fractured the bones of one leg, confining him to the house several weeks.

In the forenoon of the same day, at an alarm from box 16, for fire in tenement house No. 413 Pine street, Will G. Fraser, fireman of Engine and Ladder Company No. 5, fell from the roof of building to the ground, receiving a general shaking up but no serious injuries, restraining him from work three weeks.

FIREMEN'S RELIEF ASSOCIATION.

Through the liberality of citizens, the amount in the treasury has exceeded the drafts made upon it for the payment of benefits to members for injuries received while on duty at fires.

The financial condition is as follows:

Receipts.

Balance on hand annual meeting, February 14, 1899.....	\$4,025.13
Received from dividends on deposits.....	\$140.35
Received from new members.....	4.00

Donations:

E. M. Slayton.....	50.00
Mead, Mason & Company.....	25.00
Josiah Carpenter, for Second National Bank..	25.00
William H. Hurd.....	25.00
Dr. A. B. Story heirs (two donations of \$10)...	20.00
Chandler Brothers (George B. and Henry)....	10.00
Steamer Company No. 5.....	10.00
Jeremiah Hodge	10.00
Clarence R. Merrill.....	10.00
Manchester Heating & Lighting Company....	10.00
J. B. Varick Company.....	10.00
Edward L. Kimball.....	10.00
James W. Hill Company.....	10.00
Seaver & Sheehan.....	5.00
	<hr/>
	374.35
	<hr/>
	\$4,399.48

Expenditures.

Paid J. E. Merrill, secretary's salary one year....	\$25.00
postal cards and printing.....	2.10
benefit Herbert E. Dunbar.....	24.00
James C. Newton.....	5.50
Capt. E. A. Sears.....	16.00
Will G. Fraser.....	21.00
Henry C. Morrill.....	97.00
	<hr/>
	\$190.60
	<hr/>
Balance in treasury	\$4,208.83

The association is under obligations to Dr. Daniel S. Adams for services rendered at different times to members receiving injuries while in the discharge of their duties.

CONCLUSION.

In closing this report I desire to sincerely thank His Honor, Mayor Clarke, for the interest he has ever maintained and his endeavors to assist in keeping the department to a high standard of efficiency, as well as to such members of the city councils as have manifested their interest in its welfare; to the police department for their co-operation in protecting property from loss at fires; to the assistant engineers and other officers and men of the department, who by their promptness and zeal have served the city faithfully and well.

The needs of the department, as referred to in my two previous reports, are well understood, and as they have received so little attention a repetition at this time is unnecessary.

Respectfully submitted.

THOMAS W. LANE,
Chief Engineer Fire Department.

Number and Location of Fire Alarm Boxes and Keys.

A KEY IS ATTACHED TO EACH BOX, and can be had by breaking the glass.

No. 3. Blood's lower shop. Keys at offices of gas-works, county jail, Manchester Coal & Ice Company's sheds, and Charles H. Hutchinson's shop.

No. 4. Corner Spruce and Elm streets. Keys at Hotel Oxford, L. B. Bodwell & Co.'s, Palmer & Garmon's, street railway stables, and office of Blodgett & Young's block.

No. 5. Corner of Merrimack and Elm streets. Keys at Tebbetts & Soule's and Hansecom's drugstores, Manchester House, and J. W. Hill Company's store.

No. 6. City Hall. Keys at Holland's and Thurston's drugstores, J. A. Riddle's office, and residence of J. L. Brock, 21 Amoskeag Corporation.

No. 7. Police station, corner of Manchester and Chestnut streets. Keys at chief of police's office and with all police officers.

No. 8. Corner of Elm and Hollis streets. Keys at Dante Smith's and Gadbois's drugstores, and Partridge Brothers' grain store.

No. 9. Corner of Elm and Webster streets. Keys at residences of Mrs. H. D. Corliss, J. Freeman Clough, Dr. E. Fritz, and station of Engine No. 5.

No. 12. Corner of North and Pine streets. Keys at residences of John Mooar, George Emerson, Walter A. Green, and O. D. Knox.

No. 13. Corner of Brook and Chestnut streets. Keys at residences of Welcome Jencks and Mrs. Lewis Simons, No. 1 Senter's block, and Hartshorn's grocery store.

No. 14. Corner of Prospect and Union streets. Keys at residences of Mrs. W. Ireland, Mrs. George W. Riddle, D. J. Adams, A. H. Olzendam, and Mrs. Thomas Morgan.

No. 15. Corner of Pearl and Chestnut streets. Keys at residences of Henry W. Shannon and J. Fred Chalker.

No. 16. Corner of Lowell and Union streets. Keys at residences of Rt. Rev. Bishop Bradley and R. R. Hassam.

No. 17. Corner of Amherst and Beech streets. Keys at residences of Miss Mary A. Watts and Michael Connor.

No. 18. Corner of Manchester and Maple streets. Keys at residences of the late H. E. Stevens, A. N. Baker, and William Perkins's estate.

No. 21. Corner of Merrimack and Pine streets. Keys at A. D. Smith's drugstore, J. McKeon's grocery store, A. L. Walker's office, and residence of James F. Gillis.

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

No. 24. Engine and Ladder Company No. 3 house, corner of Massabesic street and Lake avenue. Keys at residence of D. M. Goodwin and station of Engine and Ladder No. 3.

No. 25. Corner of Hanover and Ashland streets. Keys at residences of George F. Lincoln, A. D. Gooden, the late Horace Stearns, the late Horace Gordon, and James R. Straw.

No. 26. Corner of Bridge and Russell streets. Keys at McCrillis's carriage shop.

No. 27. Corner of Belmont and Amherst streets. Keys at residences of H. M. Tarbell, E. S. Fletcher, William Carr, and Mrs. George H. Hubbard.

No. 28. Corner of Merrimack and Beacon streets. Keys at residences of A. L. Garmon and the late A. G. Fairbanks.

No. 31. Corner of Canal and Hollis streets, Blood's shop. Keys at office, Amory Mills, Langdon Mills watchrooms.

No. 32. Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Company's mill, Langdon watchroom, and Electric Light Station.

No. 34. Jefferson Mill. Keys at watchroom and pumping station.

No. 35. Stark Mills. Keys at watchroom.

No. 36. Amory Mills. Keys at watchroom.

No. 39. Hillsborough county jail. Keys at office.

No. 41. Amoskeag Mills. Keys at watchroom.

No. 42. Manchester Mills. Keys at watchroom.

No. 43. Olzendam's Mill. Keys at watchroom.

No. 45. The S. C. Forsaith Company's shops. Keys at freight depot and S. C. Forsaith Company's office.

No. 51. Corner of Walker and Second streets. Keys at stores of F. Riedel and Henry Weber.

No. 52. Barr's brick block, West Manchester. Keys at Fradd & Co.'s and A. N. Clapp's stores, Merrimack House, and Engine No. 2 house.

No. 53. Wallace's steam mill. Keys at Wallace's office, I. R. Dewey's tenement block, and Ranno's harness store.

No. 54. Corner of A and South Main streets. Keys at residences of Lord sisters, Neil Fullerton, and George W. Davis's store.

No. 56. Baldwin's bobbin shop. Keys at Baldwin's office and residences of J. C. Smith, E. P. Littlefield, and with watchman at works.

No. 57. Corner Mast road and D street. Keys at residences of Allen E. Eaton and C. H. George, and F. W. Towle's store.

No. 61. Corner of River road and Hancock street, Bakersville. Keys at True W. Jones Company's brewery, store of John A. Kane, and Hose 3.

No. 62. Gerrish Wool & Leather Company's, River road. Keys at tannery, the Edwin Kennedy house, and Hose 3.

No. 71. Corner of Cedar and Pine streets. Keys at residences of T. Collins, Daniel Sheehan, Thomas J. Smith, Simon McCarthy, and J. J. Twomey.

No. 72. Corner of Lake avenue and Lincoln street. Keys at residences of the late Austin Jenkins, James Briggs, and Clarence D. Palmer.

No. 73. Corner of Beech and Cedar streets. Keys at residences of Rev. J. A. Chevalier and Timothy Carr.

No. 81. Central Fire Station, Vine street. Keys at all the engine rooms.

No. 82. Old City Hotel, corner Lowell and Church streets. Keys at Lowell-street stable and Eames Bros.' drugstore.

No. 91. Corner Webster and Beech streets. Keys at Children's Home and R. N. Foster's residence.

No. 112. Corner of Sagamore and Union streets. Keys at residences of W. T. Stevens, W. A. Clarkson, M. D. Johnson, Charles F. Chase, and William H. Drury.

No. 113. Corner of Oak and Prospect streets. Keys at residences of Mrs. William B. Abbott, W. N. Johnson, and E. M. Topliff.

No. 114. Corner of Pearl and Ash streets. Keys at residences of Mrs. A. P. Olzendam, G. A. Olzendam, W. S. Shannon, and John J. Bennett.

No. 115. Corner of Gore and Ash streets. Keys at residences of James A. Rogers and Cyren Bixby.

No. 212. Shoeshop, Hallsville. Keys at the office of the shoe factory and residences of Charles C. Chase, G. W. Dearborn, Mrs. Milton A. Abbott, M. V. B. Garland, and Walter Cody's block.

No. 213. Sash and blind factory, South Beech street, junction of Portsmouth Railroad. Keys at offices of Manchester Sash & Blind Company and Dana & Provost.

No. 214. Elliott silk mill, corner of Wilson and Valley streets. Keys at office and watchroom of mill.

No. 215. Hoyt & Co.'s shoeshop, corner of Lincoln and Silver streets. Keys at offices of shoeshop and Kimball Carriage Company and boarding-house opposite.

No. 216. Jewett and Somerville streets. Keys at residences of G. H. Hill, 140 Jewett street, and W. B. Brown, 128 Jewett street.

No. 217. Corner Candia road and Massabesie street. Keys at residences of L. M. Streeter, William Gadbois, and Charles P. Still.

No. 241. Lake avenue hill. Keys at residences of G. L. Drake and Charles Davis.

No. 261. Pearl-street grammar school. Keys at schoolroom and residences of C. E. Rose, S. W. Bascom, and Charles W. Cheney, Jr.

No. 312. Corner of Putnam, Main, and McGregor streets. Keys at residences of James Spence (309 Main street), Thomas Bolton, and gate No. 11 mill.

No. 313. Corner Amory and Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, Potvin & Co.'s drugstore, Miville & Co.'s drugstore, gate of No. 11 mill, and station of Engine and Ladder No. 6.

No. 314. P. C. Cheney Company's paper mill. Keys at office and Riverside Hose house.

No. 315. Old Brick store, 'Skeag. Keys at Greer's store, Riverside Hose house and D. L. Robinson's residence.

No. 321. Corner Beauport and Wayne streets. Keys at Holy Angels Convent, the Brothers' School, and residences of E. H. Doherty and Rev. Father Hevey.

No. 323. Corner of Putnam and Bartlett streets. Keys at Albert Oliver's store, P. J. Archambeault's bakery, and residence of Officer Lewis Clement.

No. 324. Amory and Laval streets. Key at residence of Desire Martin, No. 494 Amory street.

No. 511. Corner of Douglas and Green streets. Keys at residences of Amelia Davis, William A. Tufts, and James Kearns.

No. 513. Corner of Milford and Carroll streets. Keys at residences of J. W. Abell, James Ward, and Mrs. Elizabeth Ward.

Also, keys will be found in the hands of all regular police.

The true time will be given at precisely 12.30 P. M. from Charles A. Trefethen's jewelry store, and will be denoted by one stroke of the fire bells.

Telephone Calls.

Chemical Engine, Central Station.....	64—3
Engine No. 2.....	64—2
Engine and Ladder No. 3.....	64—5
Engine and Ladder No. 5.....	64—6
Engine and Ladder No. 6.....	64—7
Hose No. 2.....	116—4
Hose No. 3.....	102—4
Chief Engineer Lane's office.....	64—3
Chief Engineer Lane's house.....	64—4
Assistant Engineer Whitney's house.....	377—2
Assistant Engineer Whitney's office.....	263
Assistant Engineer Merrill's office.....	212—3
Assistant Engineer Frisselle's house.....	175—2

Two long rings, twice, all take down telephones.

Instructions to Keyholders and Citizens.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm box, the key of which is in a circular

box attached to the right side of the fire-alarm box. Keys are also in the hands of all regular police, and generally of persons at the corner or nearest house.

2. Key-holders, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking), and then let go. Shut the door, but do *not* try to remove the key, as it is locked in by a trap lock, and can only be removed with a release key, which is carried by each of the engineers, and they will, as soon as convenient, release and return it.

3. All persons giving fire alarms are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box and give an alarm from that.

4. Never signal for a fire seen at a distance. Never touch the box except to give an alarm of fire. Give an alarm for no cause other than actual fire. **DON'T GIVE AN ALARM FOR A CHIMNEY FIRE.**

5. Never let the keys go out of your possession unless called for by the chief engineer. *If you change your residence or place of business, where the keys are kept, return the keys to the same office.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm boxes near their property; also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire-bells in the city, and the number of the box will be given thus: Box 6, six blows, $2\frac{1}{2}$ seconds apart, repeated three times. Box 212, two blows, pause of $6\frac{1}{4}$ seconds, one blow, same pause, and two blows, 2—1—2, repeated three times.

8. The engineers reserve the right to give one stroke of the bells at any time; and in case of testing the boxes, each test will be preceded by one stroke of the bells.

TABLE

SHOWING THE APPARATUS CALLED TO DIFFERENT BOXES ON FIRST, SECOND, AND THIRD ALARMS.

BOXES.	FIRST ALARM.			SECOND ALARM.			THIRD ALARM.		
	Engine.	Hose.	Hook-and-ladder.	Engine.	Hose.	Hook-and-ladder.	Engine.	Hose.	Hook-and-ladder.
3.....	1st R. 3	C. 1	1-3	2d R. 2	.....	5-6	2	5-6	
4.....	1st R. 2-3	"	1-3	2d R.	.....	5-6.	.....	6	
5.....	1st R. 2-3	"	1	2d R.	.....	5-6	.....	6	
6.....	1st & 2d R.	"	1-2	2-3	.....	5-6	.....	6	
7.....	1st R. 3	"	1	2d R.	.....	2-5-6	3	6	
8.....	1st & 2d R. 5	"	1-2	3	.....	2-6	3	6	
9.....	1st R. 5	"	1	2d R.	.....	2-3-6	3	3-6	
12.....	5	"	1	1st R.	.....	2d R. 2-3-6	3	3-6	
13.....	1st R. 5	"	1-2	2d R.	.....	2d R. 2-3-6	3	3-6	
14.....	1st R. 5	"	1-2	2d R. 3	.....	2-6	3	3-6	
15.....	1st & 2d R. 5	"	1-2	3	.....	2-6	3	6	
16.....	1st R. 5	"	1-2	2d R. 3	.....	2-6	3	6	
17.....	1st R. 3	"	1-2	2d R. 5	.....	2-6	3	3-6	
18.....	1st R. 3	"	1-2	2d R.	.....	2-5-6	3	5-6	
21.....	1st R. 3	"	1	2d R. 2	.....	5-6	3	6	
23.....	1st R. 3	"	1-2	2d R.	.....	2-5-6	3	5-6	
24.....	1st R. 3	"	1-2	2d R.	.....	2-5-6	3	5-6	
25.....	1st R. 3	"	1-2	2d R.	.....	2-5-6	3	5-6	
26.....	1st R. 3	"	1-2	2d R. 5	.....	2-6	3	1-6	
27.....	1st R. 3	"	2	2d R.	.....	2-5-6	3	5-6	
28.....	3	"	2	1st R.	.....	2d R. 2-5-6	3	1-5-6	
31.....	1st R. 6	"	1	2d R. 5	.....	2-3	3	3	
32.....	1st R. 5	"	1	2d R. 6	.....	2-3	3	3	
34.....	1st & 2d R. 5-6	"	1-2	2-3	.....	6-3	3	.....
35.....	1st & 2d R. 5-6	"	1	2-3	.....	6-3	3	.....
36.....	1st & 2d R. 5-6	"	1	2-3	.....	3-6	3	.....
39.....	1st R. 3	"	1-3	2d R. 2	.....	5-6	.....	6	
41.....	1st & 2d R. 2-3	"	1	5-6	.....	5-6	.....	.....
42.....	1st & 2d R. 2-3	"	1	5-6	.....	5-6	.....	.....
43.....	1st R. 2-3	"	1	2d R. 6	.....	5	.....	6-5	
45.....	1st & 2d R. 2-3	"	1	5	.....	5	.....	6	
51.....	2-6	"	.....	1st R. 3	.....	2d R. 5	6-2	1-5	
52.....	2-6	"	1	1st R. 3	.....	2d R. 5	2	1-5	
53.....	2-6	"	1	1st R. 3	.....	2d R. 5	2-3	1-5	
54.....	2-6	"	.....	1st R.	.....	2d R. 3-5	2-3	1-3-5	
56.....	2-6	"	1	1st R. 3	.....	2d R. 5	2-3	1-5	
57.....	2-3	"	1	6	.....	1st & 2d R. 3-5	2-3	1-3-5	
61.....	1st R. 3	"	1-3	2d R. 2	.....	5-6	2	1-5-6	
62.....	1st R. 3	"	1-3	2d R. 2	.....	5-6	2	1-5-6	
71.....	1st R. 3	"	1	2d R.	.....	2-5-6	.....	5-6	
72.....	1st R. 3	"	1	2d R.	.....	2-5-6	3	5-6	
73.....	1st R. 3	"	1	2d R.	.....	2-5-6	3	5-6	
81.....	1st & 2d R.	"	1	5	.....	2-6	3	6	
82.....	1st & 2d R. 5	"	1-2	3-6	.....	2	.....	.....
91.....	1st R. 5	"	1	2d R.	.....	2-3-6	3	3-6	
112.....	1st R. 5	"	2	2d R.	.....	2-3-6	3	3-6	
113.....	1st R. 5	"	2	2d R.	.....	2-3-6	3	3-6	
114.....	1st R. 5	"	1-2	2d R. 3	.....	2-6	3	1-6	
115.....	1st R. 5	"	2	2d R.	.....	2-3-6	3	3-6	
212.....	1st R. 3	"	2	2d R.	.....	2-5-6	.....	5-6	
213.....	1st R. 3	"	2-3	2d R.	.....	2-5-6	1	6-5	
214.....	1st R. 3	"	2-3	2d R.	.....	2-5-6	1	5-6	
215.....	1st R. 3	"	2-3	2d R.	.....	2-5-6	.....	5-6	
216.....	1st R. 3	"	2	2d R.	.....	2-5-6	3	5-6	
217.....	1st R. 3	"	2	2d R.	.....	2-5-6	3	5-6	
241.....	3-6	"	2	1st R.	.....	2d R. 2-5-6	3	5-6	
261.....	1st R. 3	"	1-2	2d R. 5	.....	2-6	3	3-6	
312.....	1st R. 2-6	"	1	2d R. 5	.....	3	3	3-5	
313.....	1st R. 2-6	"	1	2d R. 5	.....	3	3	3-5	
314.....	5-6	"	1	1st R. 2	.....	2d R. 3	2-3	1-3	
315.....	5-6	"	.....	1st R.	.....	2d R. 2-3	2-3	1-3	
321.....	2-6	"	1	1st R. 5	.....	2d R. 3	2-3	3-5	
325.....	2-6	"	1	1st R. 5	.....	2d R. 3	2-3	1-3-5	
324.....	2-6	"	1	1st R. 5	.....	2d R. 3	3-2	1-3	
511.....	2-6	"	.....	1st R.	.....	2d R. 3-5	2-3	1-5	
513.....	2-6	"	.....	1st R.	.....	2d R. 3-5	2-3	1-3-5	

Rules and Regulations in regard to responding to Fires and Alarms, etc.

The following rules have been adopted by the board of engineers, and the fire department will strictly comply until otherwise ordered, and will attend alarms of fire as per "OFFICIAL RUNNING CARD."

RUNNING RULES.

Whenever an alarm is sounded, the members of all companies not called to that box will report to their respective company quarters, and *there remain until dismissed* by the signal on the bells or by an engineer in charge.

In case companies on their first run have responded to an alarm, companies on their second run to the box from which the alarm has been sounded will answer all first-run boxes of the absent companies; and in case engines are out that would respond to another box, then third alarm companies will respond. In case of an alarm from a box that does not call for a third alarm, companies on their second run will then answer to all other boxes.

Whenever two trucks answer to first alarm the other truck will answer to all other boxes.

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. Whenever a horse lags or gives out, drivers should then give others the right of way, so as not to delay the rest of the apparatus. NO RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT, UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.

The drivers shall not permit persons not connected with the department to ride upon their apparatus, and in muddy weather or heavy wheeling they shall not permit any one to ride upon their apparatus when returning from fires.

Drivers will take the following routes in responding to alarms on the West Side: For crossing Amoskeag bridge, take Elm street to Salmon, down Salmon street and across the bridge. For crossing McGregor bridge take Elm street to Bridge street, down Bridge street and across the bridge. For crossing Granite bridge take Elm street to Granite, down Granite and across the bridge.

Use gongs freely to clear the streets and when nearing crossings.

Engineers of steamers will not run over eighty (80) pounds of water pressure, except when orders are received from a member of the board of engineers or of the officer in command of the company.

CAPTAINS, or commanding officers, upon return from alarms will report to headquarters immediately, personally or by telephone, after apparatus is "made up" and ready for duty.

THIRD ALARM.

ON THIRD ALARM all apparatus will respond.

GENERAL ALARM.

In the event of a fire of such magnitude that second and third alarms are needed, a general alarm will be given by striking TEN BLOWS, in which case all companies will respond.

SPECIAL CALLS ON FIRE ALARM.

When more apparatus is wanted without giving a second or third alarm, the following special calls will be given:

2—1 for Engine 1.	1—1—1 for Aërial Truck.
2—2 for Engine 2.	3—3 for Truck 3.
2—3 for Engine 3.	3—5 for Truck 5.
2—4 for Engine 4.	3—6 for Truck 6.
2—5 for Engine 5.	4—1 for Hose 1.
2—6 for Engine 6.	4—2 for Hose 2.
	4—3 for Hose 3.

Companies answering "special calls" will wait thirty seconds before leaving quarters, to prevent mistakes.

OUT OF TOWN CALL.

For a fire out of the city 2—2—2, in which case all companies will assemble at their respective quarters and await orders.

ALL OUT SIGNAL.

Two blows on the bells, which dismisses all members at company quarters.

This signal will be given after companies working at a fire have returned to quarters, "made up," and are ready to respond to another alarm.

TEST SIGNAL.

One blow at 12.30 noon.

SCHOOL SIGNALS.

1—1, with fifteen seconds between blows, closes primary and middle schools.

2—2, with fifteen seconds between the 2's, closes all the schools. Time for giving same, 7.30 A. M., 11.30 A. M., or 1.15 P. M.

MILITARY CALL.

12 blows twice.

Rules for Exercising Horses.

It shall be the duty of the drivers of engines, hose carriages, hose wagons, hook-and-ladder trucks, and all other apparatus connected

with this department, to exercise the horses every day, weather permitting, except Sunday, with the exception of engines having "first" and "second runs," and in such cases must exercise on days of "second run," the same to be done within the following limits:

CENTRAL STATION.

North to Pearl street.	East to Union street.
South to Merrimaek street.	West to Chestnut street.

NORTH MAIN-STREET STATION.

North to Adams street.	East to Main street
South to Granite street.	West to Dubuque street.

LAKE AVENUE STATION.

North to Manchester street.	East to Belmont street.
South to Summer street.	West to Maple street.

MAPLE-STREET STATION.

North to Myrtle street.	West to Union street.
South to Hanover street.	East to Linden street.

WEBSTER-STREET STATION.

North to Clarke street.	East to Union street.
South to Pennacook street.	West to Elm street.

RIMMON-STREET STATION (MCGREGORVILLE).

North to Kelly street.	East to Beauport street.
South to Wayne street.	West to Rimmon street.

BAKERSVILLE STATION.

North to bridge, over Boston & Maine Railroad.	South to Baker street.
East to Calef road.	West to Brown avenue.

Drivers must confine themselves to the above, and in no case take their horses beyond the prescribed limits, except for shoeing and in case of fire, without permission from the chief or an assistant engineer.

In exercising, care must be taken to avoid colliding with other teams. In approaching corners, crossings, street car tracks, and in going down grades the speed of the horses must be checked.

In case of an alarm use gong freely while returning to quarters.

Any driver violating these rules will be liable to suspension or discharge.

Stations and Sleeping Rooms.

All stations of this department will be open from 7 A. M. until 9 P. M., and the members at the several stations will receive visitors and citizens courteously, answer all questions in a gentlemanly manner, and give any proper information.

No political or religious discussions will be allowed in any of the houses of this department or by the officers or men when on duty.

No permanent member of the department shall attend a caucus or political convention as a delegate, distribute tickets at any election, or take any part whatever in political matters other than to exercise his right of suffrage.

Gambling of any kind shall not be done or permitted in or about any of the houses or premises occupied by the department.

Stations to be closed at 10 o'clock P. M.

All games must cease at 10 o'clock P. M., and the stations be closed at that hour, to permit the permanent men, and those detailed to sleep in the station, to retire undisturbed.

None of the stations will be open after the above hour (except in case of an alarm of fire) without permission of the chief or a member of the board of engineers, although stations may be kept open on Saturday evenings until 11 o'clock.

No spirituous or malt liquors shall be allowed in or about any of the fire stations, and any member of the fire department seen intoxicated at any fire or alarm of fire, or who shall be known to frequent places where liquors are sold, during the progress of a fire, or whenever in uniform, shall be subject to reprimand, or dismissal, as the board of engineers may determine.

Any permanent member visiting any liquor saloon in uniform, except in the performance of his duty as a member of the fire department, or who is intoxicated or visits places where intoxicating liquors are sold, while on duty, shall be suspended or discharged, as the board of engineers may determine.

Any violation of these rules will subject the offender to reprimand or dismissal, and commanding officers of companies having knowledge of the violation of the foregoing rules will suspend the offender, and report the same to the chief or board of engineers.

The permanent men shall exercise a careful supervision over the sleeping apartments, see that the rooms are put in order and the beds made as early as 11 o'clock A. M., and that the bedding is changed at suitable intervals. The occupants of each bed will be held responsible for the cleanliness of the same, and held strictly accountable for any damage to either bed or bed clothing through carelessness. After 10 P. M. occupants shall refrain from loud talking or in any manner disturbing the rest of any who have retired.

Any member of the department not complying with the above rules shall be liable to suspension or expulsion from the department.

Absent from City or Station.

No permanent member shall leave his station to visit any section of the city without permission of the chief or an assistant engineer, or leave the city, or be granted leave of absence, without notifying the chief engineer and procuring a substitute to his acceptance, and the substitute shall be on duty before the applicant leaves his post, except on his regular "day off."

Any call member expecting to be absent from the city shall notify the captain of his company, and before leaving the city shall procure a substitute satisfactory to said captain.

DAYS OFF.

Day of month.	NAME.	COMPANY.	Day of month.	NAME.	COMPANY.
1	Hall	Engine 1.	17	Porter	Engine & Ladder.
2	Harvey	" 1.	18	Seaward.....	Hose 2.
3	Barker	" 1.	19	Morse.....	Engine & Ladder 5.
4	Parsons*,	Hose 1.	20	Smith.....	" " 5.
5	Gould	Engine 4.	21	Cann	" " 5.
6	Cann	" 4.	22	Hubbell	" " 5.
7	Rowe	" 4.	23	Morrill.....	Engine 2.
8	Dyer	Truck 1.	24	Lane	" 2.
9	Denyou.....	" 1.	25	Whiteomb....	" 2.
10	Pherson	" 1.	26	Edgar	Engine & Ladder 6.
11	Porter	Chemical 1.	27	Foster.....	" " 6.
12	Richardson..	" 1.	28	Jenne	" " 6.
13	Walker	Engine & Ladder 3.	29	Crosby*.....	" " 6.
14	Piper	" " 3.	30	Rogers*.....	Hose 3.
15	Wheeler.....	" " 3.	31	Sloan*	" 3.
16	McLeod.....	" " 3.			

* In February Crosby will take the 16th, and Rogers the 26th; in July Parsons will take the 14th; and in February, April, June, September, and November, Sloan will take the 27th.

The hour of leaving will be 7 o'clock A. M., and members will not leave their station until the arrival of the spare driver. They must report *promptly* at 7 o'clock the following morning for duty.

Those whose breakfast hour is 6 o'clock will remain at station until 7 o'clock on the date of their "day off."

Should a fire be in progress at the hour of changes, men will remain on duty until the "all out" is given, except permission is obtained of the chief, or engineer in charge of fire, to retire.

Should a "general" or third alarm be rung in while members are in town, they will be expected to report for duty.

On the "day-off" of the engineer of a steamer, the assistant engineer shall, on his arrival at the fire, act as engineer.

The time of change from *first* and *second* run will be made at 7 o'clock A. M.

All hose companies are instructed not to enter any building with a line of hose unless the stop nozzle is closed, except in cases where they can see the fire, and when their streams will reach it without damage to other property.

Steamer companies are not to enter a building with a line of hose without orders, unless fire can be seen, due care being exercised as to whether their services are needed.

ESTIMATED VALUE OF PROPERTY.

Engine No. 1.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer.....	\$4,000.00
1 one-horse wagon	400.00
3 gray horses for steamer.....	600.00
1 gray horse for hose wagon.....	200.00
4 swinging harnesses	200.00
1 pair double exercise harnesses.....	50.00
1 single exercise harness.....	40.00
2,000 feet fabric hose.....	900.00
Stable fixtures, blankets, etc.....	80.00
Tools, furniture, and fixtures.....	200.00
Firemen's suits and badges.....	125.00
Total amount	<u>\$6,795.00</u>

Engine No. 2.

LOCATED AT NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer.....	\$4,000.00
1 hose wagon	600.00
1 exercise wagon, poles, shafts, and three-horse hitch.....	250.00
3 horses for steamer.....	600.00
1 pair horses for hose wagon.....	400.00
3 exercise harnesses, 2 at \$40, 1 at \$20.....	100.00

5 swinging harnesses	\$250.00
1 double sled	60.00
3,200 feet fabric hose.....	1,440.00
Stable fixtures and blankets.....	94.00
Furniture, fixtures, carpets, etc.....	466.00
Firemen's suits and badges.....	125.00
Total amount	<u>\$8,385.00</u>

Engine and Ladder No. 3.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 second-size Amoskeag steamer.....	\$3,500.00
1 two-horse hose wagon.....	400.00
1 two-horse truck and equipments.....	1,700.00
1 three-horse hitch attachment (extra).....	200.00
1 pair black horses for steamer.....	250.00
1 pair bay horses for hose wagon.....	400.00
1 pair black horses for truck.....	300.00
3 exercise harnesses, 2 at \$50, 1 at \$40.....	140.00
6 swinging harnesses	300.00
3,600 feet fabric hose.....	1,620.00
Stable fixtures, blankets, etc.....	80.00
Beds, bedding, carpets, hall furniture, etc.....	575.00
Firemen's suits and badges.....	150.00
1 exercise wagon	250.00
Total amount	<u>\$9,865.00</u>

Engine No. 4.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer.....	\$4,200.00
1 hose wagon	400.00
3 horses for steamer.....	600.00
1 horse for hose wagon.....	150.00
3 exercise harnesses	60.00
4 swinging harnesses	200.00
2,350 feet fabric hose.....	1,047.50
Hall furniture, beds, bedding, etc.....	275.00
Stable fixtures and blankets.....	75.00
Firemen's suits and badges.....	125.00
Total amount	<u>\$7,132.50</u>

Engine and Ladder No. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-size Amoskeag steamer.....	\$3,600.00
1 two-wheeled Amoskeag hose carriage.....	600.00
1 steel frame ladder truck.....	1,650.00
1 pair bay horses for steamer.....	400.00
1 pair bay horses for truck.....	400.00
1 bay horse for hose carriage.....	200.00
1 exercise wagon	325.00
1 double sled	50.00
5 swinging harnesses	250.00
2 pairs exercise harnesses.....	100.00
2,150 feet fabric hose.....	967.50
Bedding, furniture, tools, etc.....	247.00
Stable fixtures, blankets, etc.....	90.00
Firemen's suits, badges, etc.....	150.00
Total amount	<u>\$9,029.50</u>

Engine and Ladder No. 6.

LOCATED AT CORNER AMORY AND RIMMON STREETS.

1 second-size Amoskeag steamer.....	\$3,500.00
1 hook-and-ladder truck (with Bangor extension).....	1,680.00
1 one-horse carriage	600.00
2 gray horses for steamer.....	300.00
2 bay horses for truck.....	267.00
1 gray horse for hose carriage.....	150.00
5 swinging harnesses	250.00
2,000 feet fabric hose.....	900.00
Hall furniture, carpets, beds, bedding, etc.....	375.00
Stable fixtures, blankets, etc.....	85.00
Firemen's suits and badges.....	150.00
1 exercise wagon	290.50
Total amount	<u>\$8,547.50</u>

Hose No. 1.

LOCATED ON VINE STREET.

1 four-wheeled Amoskeag hose carriage.....	\$600.00
2 horses	300.00
2 single harnesses	70.00

1 single sled	\$40.00
1 hose sled	20.00
2,550 feet fabric hose.....	1,147.50
Furniture and fixtures.....	200.00
Beds, bedding, etc.....	60.00
Stable fixtures and blankets.....	50.00
Firemen's suits and badges.....	100.00
Total amount	<u>\$2,587.50</u>

Hose No. 2.

LOCATED ON MAPLE STREET, CORNER EAST HIGH.

1 four-wheeled Amoskeag hose carriage.....	\$600.00
1 bay horse	150.00
1 exercise harness	30.00
1 swinging harness	50.00
1 exercise wagon	325.00
2,000 feet fabric hose.....	900.00
150 feet leather hose.....	60.00
Furniture and fixtures	100.00
Firemen's suits and badges.....	100.00
Total amount	<u>\$2,315.00</u>

Hose No. 3.

LOCATED ON SOUTH ELM STREET, BAKERSVILLE.

1 combination hose wagon (with ladders).....	\$1,000.00
1 pair gray horses.....	200.00
1 pair swinging harnesses.....	100.00
1 pair exercise harnesses.....	50.00
1 exercise wagon	50.00
2,200 feet fabric hose.....	990.00
Furniture, fixtures, bedding, etc.....	85.00
Stable fixtures, blankets, etc.....	65.00
Firemen's suits and badges.....	80.00
Total amount	<u>\$2,620.00</u>

Hook and Ladder No. 1.

LOCATED ON VINE STREET.

1 aerial hook-and-ladder truck.....	\$4,200.00
3 horses	600.00

3 swinging harnesses	\$50.00
3 swinging harnesses	150.00
2 extra Bangor extension ladders.....	360.00
7 rubber blanket covers.....	168.00
Furniture and fixtures.....	200.00
Beds, bedding, and furniture.....	75.00
Stable fixtures and blankets.....	60.00
Firemen's suits and badges.....	150.00
Total amount	<u>\$6,013.00</u>

Chemical Engine No. 1.

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine.....	\$2,250.00
1 pair black horses	500.00
1 pair exercise harnesses.....	50.00
1 pair swinging harnesses.....	100.00
Furniture and fixtures.....	75.00
Stable fixtures and blankets.....	50.00
Firemen's suits and badges.....	35.00
Total amount	<u>\$3,060.00</u>

Supply Wagon.

1 supply wagon, with boxes and engineers' lanterns.....	\$200.00
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Spare Hose.

AT CENTRAL STATION, VINE STREET.

200 feet leather hose.....	\$100.00
1,500 feet fabric hose (for re-lining).....	375.00
300 feet fabric hose (new).....	135.00
Total amount	<u>\$610.00</u>

Exercise Wagon.

AT CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole, shafts, three-horse hitch, and coal boxes.....	\$250.00
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E. W. Harrington Steam Fire Engine.

STORED AT SHEDS OF ENGINE NO. 2.

Old U tank Amoskeag engine (may be worth for exchange)	\$250.00
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Engineers' Department.

5 engineers' white rubber coats.....	\$37.50
5 engineers' lanterns.....	20.00
Furniture and fixtures	150.00
Total amount	\$207.50

Riverside Hose Co. No. 5.

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hose carriage.....	\$400.00
800 feet leather hose.....	240.00
500 feet fabric hose.....	360.00
2 hose-pipes, spanners, etc.....	40.00
Furniture and fixtures.....	10.00
Total amount	\$1,050.00

Hallsville (Independent) Hose.

LOCATED AT CORNER OF MAMMOTH ROAD AND MASSABESIC STREET.

1 two-wheeled hose carriage.....	\$30.00
500 feet leather hose.....	150.00
Nozzle, wrenches, etc.....	15.00
Total amount	\$195.00

Goffe's Falls Hose Carriage.

LOCATED AT DEVONSHIRE MILLS.

1 two-wheeled hose carriage.....	\$30.00
400 feet fabric hose.....	160.00
2 hose-pipes	10.00
Total amount	\$200.00

Pond Road Hose Carriage.

LOCATED IN BASEMENT OF W. P. FARMER'S BARN.

1 two-wheeled hose carriage.....	\$30.00
500 feet leather hose.....	150.00
Total amount	\$180.00

Sleeping Hall.

AT CENTRAL STATION, VINE STREET.

6 beds, bedding, wardrobes, etc.....	\$260.00
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Extra Horses.

1 steel gray horse.....	\$150.00
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Fire Alarm Telegraph.

At cost, including additions.....	\$21,500.00
Remodeling in 1885.....	6,000.00
"Individual tapper" system.....	4,000.00
Storage battery (in 1898).....	1,850.00
Fire-alarm box and extensions (in 1899).....	250.00
Wire, brackets, and tools.....	250.00
Repair wagon	150.00
	<hr/>
	\$34,000.00

Recapitulation.

Engine Company No. 1.....	\$6,795.00
Engine Company No. 2.....	8,385.00
Engine and Ladder Company No. 3.....	9,865.00
Engine Company No. 4.....	7,132.50
Engine and Ladder Company No. 5.....	9,029.50
Engine and Ladder Company No. 6.....	8,547.50
The "Harrington" steamer (old).....	250.00
Hose Company No. 1.....	2,587.50
Hose Company No. 2.....	2,315.00
Hose Company No. 3.....	2,620.00
Hook and Ladder Company No. 1 (aërial).....	6,013.00
Chemical Engine Company No. 1.....	3,060.00
Supply wagon (Central station).....	200.00
Exercise wagon (Central station).....	250.00
Spare hose	610.00
Engineers' department	207.00
Riverside Hose No. 5.....	1,050.00
Hallsville Hose	195.00
Goffe's Falls Hose	200.00
Pond Road Hose.....	180.00
Sleeping hall	260.00
Spare horse	150.00
Fire alarm telegraph	34,000.00
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Total	\$103,902.00

List of Fires and Alarms Responded to During 1899, with Losses and Insurance.

Box 71. Sunday, January 1, 12.13 P. M. Two-and-half story wooden dwelling, 193 Cedar street, owned by Edward Murphy and occupied by James Sheehan and Mrs. McDermott. Chimney fire. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Truck 3.

Box 73. Monday, January 2, 1.41 P. M. Three-story wooden tenement block, corner Cedar and Beech streets, owned by Peter Rogers and occupied by several families. Fire originated in a closet in tenement occupied by William Foye, from hot ashes. It spread to blind attic and was soon extinguished. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3. Value of buildings, \$14,000; damage to buildings, \$225; insurance on buildings, \$5,000; insurance paid, \$225. Value of contents, \$1,000; damage to contents, \$40; no insurance.

Box 217. Monday, January 2, 2.30 P. M. Second alarm from same box six minutes later. A small cottage house on Highland avenue, near Eaton Heights, owned and occupied by William E. Warren. Fire originated in the second story from some unknown cause. Box was pulled for a second alarm by some person "rather rattled," causing the entire department to respond, but all second and third alarm apparatus was sent back before reaching the fire. Companies responding: Engines 1, 2, 3, 4, 5, 6, Chemical, Hose 1, 2, 3, Trucks 1, 3, 5, 6. Value of building, \$1,800; damage to building, \$550; insurance on building, \$1,000; insurance paid, \$550. Value of contents, \$600; damage to contents, \$129; insurance on contents, \$300; insurance paid, \$129.

Box 8. Monday, January 2, 6.32 P. M. A one-story wooden building at 1180-1182 Elm street, owned by Orrin E. Kimball and occupied by R. H. Wood, barber, and William E. Ward, bicycles. Cause unknown. Box pulled by Zepherin Rivard. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Truck 1, 5. Value of building, \$500; damage, \$250; no insurance. Value of Wood's contents, \$800; damage, \$400; insurance, \$600; insurance paid, \$370. Value of Ward's contents, \$1,500; damage, \$1,200; insurance, \$900; insurance paid, \$518.

Box 51. Tuesday, January 3, 2.53 P. M. Three-story wooden tenement block, 169-171 Second street, owned by Mrs. Henriette Sehlaugh and occupied by Alex McDonald and C. Wolfe. Fire was caused by thawing out water pipes with lamp. Box pulled by A. J. McDonald. Companies responding: Engines 2, 6, Chemical, Truck 6. Value of building, \$4,000; damage, \$15; insurance, \$4,000; insurance paid, \$15. No damage to contents.

STILL. Tuesday, January 3, 7.13 P. M. Chimney fire in tenement block, 237 Manchester street, owned by Clark heirs and occupied by several families. Used two charges of Pony. No damage.

Box 213. Tuesday, January 10, 8.56 P. M. Chimney fire in cottage house, 48 Somerville street, owned and occupied by Norrie Dubois. Box pulled by citizen. No damage. Companies responding: Engines, 3, 4, Chemical, Hose 2, 3, Ladder 3.

STILL. Wednesday, January 11, 7.00 A. M. Chimney fire in tenement block, 61 Pearl street. Chemical engine responded. Used one charge of Pony. No damage.

STILL. Wednesday, January 11, 7.25 A. M. Rubbish in basement of Crafts & Green's three-story brick shoeshop. Members of Engine 2 responded with hose wagon. Extinguished before their arrival. No damage.

STILL. Wednesday, January 11, 6.03 P. M. Two-and-half-story wooden house, 156 Concord street, owned and occupied by the New Hampshire Catholic Club. Defective chimney caused fire in partition. Chemical engine responded. Used 3 charges of Pony. Value of building, \$3,000; damage, \$20.05; insurance, \$2,500; insurance paid, \$20.05. No damage to contents.

Box 313. Wednesday, January 11, 6.45 P. M. Chimney fire in tenement block, 36 Amory street, owned by Joseph Quirin and occupied by several families. No damage. Box pulled by Officer Nixon. Companies responding: Engines 1, 2, 6, Chemical, Hose 1, Truck 6. Used three charges of Pony.

Box 324. Saturday, January 14, 5.59 P. M. A small barn in rear of 22 Laval street, owned and occupied by J. B. Favreau. Cause, boys with matches. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$150; damage, \$44; insurance, \$50; insurance paid, \$44. Value of contents, \$100; damage, \$30; insurance, \$50; insurance paid, \$30.

STILL. Tuesday, January 17, 3.57 A. M. Awning over store of the Centennial Tea Company, 1075 Elm street. Caused by electric light wires. Damage slight. Used one charge of Pony.

STILL. Tuesday, January 17, 5.35 P. M. Electric wire sagged so as to come in contact with ridge of P. W. Dickey's barn, 356 Lake avenue, causing it to "spark." No damage. Members of Engine and Ladder 3 responded.

Box 212. Wednesday, January 18, 12.53 P. M. Barn and vegetable storehouse attached to house, 951 Hayward street, owned and occupied by Daniel Allen. The fire originated in the storehouse. Cause, an oil stove. Companies responding: Engines 3, 4, Chemical, Hose 2, Truck 3. Value of building, \$2,500; damage, \$400; insurance, \$1,600; insurance paid, \$400. Value of contents, \$800; damage, \$200; insurance, \$500; insurance paid, \$200.

Box 6. Wednesday, January 18, 5.01 P. M. Four-story brick block (Opera House block), owned by Harrington heirs and Parker. The fire was in a show window of shoestore of Bolander & Johnson, and was caused by dropping a match in the window. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Truck 1, 3.

No damage to building. Value of contents, \$6,255; damage, \$70; insurance, \$4,200; insurance paid, \$70.

STILL. Saturday, January 21, 3.48 A. M. Chimney fire in tenement block, 27 Bridge street, owned by Tom W. Robinson, and occupied by several families. No damage. Chemical engine responded.

Box 323. Wednesday, January 25, 9.11 P. M. Two-story dwelling house on Groux's island, west side of 'Squog river, owned and occupied by John H. Groux. The fire was caused by a defective chimney. Engine 6 was stationed on east side of river and hose was carried across in rowboats. Used 2,250 feet of hose. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$1,200; damage, \$1,000; insurance, \$1,000; insurance paid, \$1,000. Value of contents, \$500; damage, \$200; insurance, \$100; insurance paid, \$100.

STILL. Friday, January 27, 8.48 A. M. Chimney fire in two-and-half-story tenement house, 99 Cedar street, owned and occupied by Mrs. Abbie Riley. Used two charges of Pony. Chemical engine responded. No damage.

Box 4. Friday, January 27, 2.38 P. M. Three-story wooden block, 36 Lake avenue, owned by D. A. Shanahan and occupied by him as a grocery store on first floor, and Jere. Kane and Charles McCarty as tenements. The fire originated in upper story from some unknown cause. Box pulled by Hoseman A. W. Tucker. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$4,000; damage, \$300; insurance, \$3,000; insurance paid, \$300. Value of contents, \$1,500; damage, \$42; insurance, \$1,000; insurance paid, \$42.

STILL. Monday, January 30, 6.15 P. M. Grass fire on land of Boston & Maine Railroad, near foot of Hancock street. Hose Company 3 responded. Used one charge of Pony. No damage.

STILL. Monday, January 30, 12 midnight. Oily waste in basement of gas office on Hanover street. Cause, spontaneous combustion. Damage to building, \$10; fully insured.

STILL. Tuesday, January 31, 9.50 A. M. Chimney fire in four-tenement block, 22 Birch street, owned by Charles C. Hayes. Used one charge of Pony. No damage.

STILL. Wednesday, February 1, 8.10 A. M. Chimney fire in house, 419 Lake avenue, owned and occupied by Margaret Cronin. Members of Engine and Ladder 3 responded. Used two charges of Pony. No damage.

STILL. Wednesday, February 1, 6.10 P. M. Chimney fire in cottage house on Baker street, owned and occupied by Joseph Johnson. Members of Hose 3 responded. Used one charge of Pony. No damage.

STILL. Thursday, February 2, 7.48 A. M. Burning chimney in four-tenement block, rear of 131 Amherst street, owned by Dr. J. A. Jackson. Used one charge of Pony. No damage.

Box 6. Saturday, February 4, 8.33 P. M. Five-story brick block,

corner Elm and Hanover streets, owned by John A. Riddle and occupied as stores, offices, and tenements. The fire was between the third floor and ceiling and was caused by a defective chimney in the office of Dr. Ames. Damage was mostly by water. Extinguished with Chemical engine. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Trucks, 1, 3. Value of building, \$20,000; damage, \$75; insurance, \$15,000; insurance paid, \$75. Value of contents, L. T. Meade's news agency, \$4,000; damage, \$75; insurance, \$3,000; insurance paid, \$75.

STILL. Sunday, February 5, 11.35 P. M. Chimney fire in eight-tenement block, 21 Orange street, owned by heirs of Joseph B. Clark, and in tenement occupied by J. Carter. Used one charge of Pony. No damage. Chemical engine responded.

STILL. Thursday, February 9, 9.48 P. M. Chimney fire in two-and-half-story wooden house, 108 Hanover street, owned by the Elliot Hospital and occupied by H. G. Brown as a boarding-house. No damage. Members of Chemical Company responded.

STILL. Friday, February 10, 1.48 A. M. Chimney fire in two-and-half-story wooden tenement block, 30 Church street, owned and occupied by John Cashman. Used one charge of Pony. No damage. Members of Chemical Company responded.

STILL. Friday, February 10, 2.55 P. M. Three-story brick block on Bridge street, owned by Frederick Smyth. Cause, thawing water pipes. Chemical engine responded. No damage.

STILL. Friday, February 10, 3.15 P. M. Four-story brick block, "The Bedford," 1373 Elm street. Burning chimney. No damage. Members of Chemical and Engine 4 responded.

STILL. Friday, February 10, 6.13 P. M. Chimney fire in tenement house, 182 East Spruce street, owned by Gideon Flanders and occupied by Patrick Donald. Members of Engine and Ladder 3 responded with hose carriage. Used three charges of Pony. No damage.

STILL. Tuesday, February 14, 8.40 P. M. Chimney fire in dwelling house, 239 Central street, owned and occupied by Mrs. J. M. Gauvreau. Members of Engine and Ladder 3 responded. No damage.

Box 15. Thursday, February 16, 3.27 A. M. One-story sheds in rear of 30-32 Bridge street, owned by Joseph W. Fellows and occupied by several families. Cause unknown. Box pulled by Officer Connor. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$150; damage, \$75; insurance, \$100; insurance paid, \$75. No damage to contents.

STILL. Sunday, February 19, 3.30 A. M. Four-story brick block, 37 Manchester street, owned by William Starr and occupied by Napoleon Jaurdonnais & Company as a liquor saloon. Fire was caused by a cigar stub in wooden spittoon. Burned a hole through the floor. Chemical engine responded. Used one tank. Value of building, \$15,000; damage, \$5; insurance, \$7,000; insurance paid, \$5. No damage to contents.

STILL. Friday, February 24, 9.51 A. M. Chimney fire in two-and-half-story brick dwelling, 267 Chestnut street, owned and occupied by Maj. P. A. Devine. No damage. Members of Chemical responded.

STILL. Saturday, February 25, 5.15 P. M. Chimney fire in Merrimack Hotel, 17 South Main street, owned by heirs of Daniel Connor and occupied by A. A. Lamprey. Members of Engine 2 responded. Used four charges of Pony.

STILL. Sunday, February 26, 7.35 P. M. Chimney fire in four-tenement house, 32 Amory street, owned by Joseph Quirin and occupied by several families. Members of Engine and Ladder 6 responded. No damage.

Box 71. Wednesday, March 1, 7.55 P. M. Four-story wooden block, 110 East Spruce street, owned by William Hayes and occupied by Thomas H. Mahoney as a grocery store on first floor and upstairs by him and John McLaughlin. Caused by a lamp. Box pulled by D. King. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3. Value of buildings, \$5,500; damage, \$800; insurance, \$4,000; insurance paid, \$330. Value of Mahoney's contents, \$1,800; damage, \$322.49; insurance, \$1,000; insurance paid, \$322.49.

Box 25. Friday, March 3, 11.48 P. M. Two-story double tenement house, 421-423 Hanover street, owned by Charles H. Farnham and Horace Stearns heirs and occupied by Charles A. Trefethen and Arthur E. Stearns. Cause of fire unknown. Started near the center of main part and quickly communicated through the partitions to all parts of the house. An explosion of hot air hurled a number of firemen out of doors, seriously injuring none. Box pulled by Arthur E. Stearns. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, 2, Truck 3. Value of building, \$6,500; damage, \$4,000; insurance, \$4,000; insurance paid, \$4,000. Value of Trefethen's contents, \$3,700; damage, \$1,500; insurance, \$800; insurance paid, \$800. Value of Stearns's contents, \$1,000; damage, \$700; no insurance.

Box 7. Tuesday, March 7, 12.06 A. M. Four-story wooden tenement block, 331 Chestnut street, owned by heirs of Moulton Knowles and occupied by Ralph McCabe as a boarding-house. The fire originated in the L part, and was caused by an overheated chimney. Box pulled by Officer Butler. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$4,500; damage, \$51.72; insurance, \$3,600; insurance paid, \$51.72. No damage to contents.

STILL. Tuesday, March 7, 11.20 P. M. Chimney fire in two-story house, 509 Beech street, owned and occupied by Michael J. Connor. Chemical engine responded. Used one charge of Pony. No damage.

STILL. Sunday, March 12, 10.45 A. M. Chimney fire in wooden tenement block, 30 Washington street, owned by Clark heirs and occupied by several families. Members of Chemical Company responded. Used one charge of Pony. No damage.

Box 21. Tuesday, March 14, 6.48 P. M. False alarm caused by a young man shouting fire to attract the attention of a young lady, and

hearing the cry some one pulled the box. Companies responding: Engines, 1, 3, Chemical, Hose 1, Trucks 1, 3.

STILL. Tuesday, March 14, 8.20 P. M. Chimney fire in house, 372 Granite street, owned by Horatio Fradd and occupied by Chris Seifort. Members of Engine 2 responded. Used four charges of Pony.

Box 17. Tuesday, March 14, 10.25 P. M. Barn in rear of 509 Beech street, owned and occupied by Michael Connor. The fire started in hayloft, from some unknown cause, and was confined to that portion of the building. Box pulled by Walter Connor. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 3. Value of building, \$600; damage, \$250; insurance, \$3,500; insurance paid, \$250. Value of contents, \$260; damage, \$60; insurance, blanket policy; insurance paid, \$60.

STILL. Wednesday, March 15, 6.43 P. M. Chimney fire in wooden tenement block, 68 Concord street, owned by Parsons and Ricker heirs. Members of Chemical Company responded. Used one charge of Pony. No damage.

STILL. Friday, March 17, 6.35 P. M. Chimney fire in tenement house, 368 Bartlett street, owned by R. N. Whittemore and occupied by J. Ryan and P. LaPlante. Members of Engine and Ladder 6 responded. Used four charges of Pony. No damage.

Box 313. Tuesday, March 21, 6.21 A. M. Two-story wooden dwelling, 165 Kelly street, owned by Henry Martin and occupied by Joseph Ward. Cause, defective chimney. Box pulled by citizen. Companies responding: Engines 1, 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$900; damage, \$30; no insurance. No damage to contents.

STILL. Friday, March 24, 9.45 A. M. Chimney fire in two-story wooden tenement house, 73 Amherst street, owned by John H. McCabe and occupied by J. Guillette. Members of Chemical responded. Used one charge of Pony. No damage.

STILL. Friday, March 24, 9.25 P. M. Chimney fire in house, 80 Dover street, owned by S. W. McElroy and occupied by M. E. Griffin. Set fire to partition, doing slight damage. Members of Engine 2 responded. Used three charges of Pony. No damage to contents. Value of building, \$1,000; damage, \$15; insurance, \$500; insurance paid, \$15.

STILL. Wednesday, March 29, 7.05 P. M. Chimney fire in Webster block, 1294 Elm street. Chemical engine responded. Used two charges of Pony. No damage.

STILL. Wednesday, March 29, 10.41 P. M. Chimney fire in two-story wooden block, 29 Washington street, owned by Dr. J. A. Jackson and occupied by several families. Members of Chemical responded. Used one charge of Pony. No damage.

Box 72. Thursday, April 6, 8.18 P. M. Two-and-half-story dwelling, 279 East Spruce street, owned and occupied by John E. McKeon. Fire originated in sitting-room from some unknown cause, near bow window and where Mr. McKeon was sitting. He was badly burned and died the following morning. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3. Value of building,

\$2,500; damage, \$130; insurance, \$2,000; insurance paid, \$130. Value of contents, \$600; damage, \$69.50; insurance, \$300; insurance paid, \$69.50.

STILL. Friday, April 7, 8.50 A. M. Three-story wooden block, 57 Central street, owned by heirs of S. D. Greene and occupied by Telephone Coté. Chimney fire. Chemical engine responded. Used one charge of Pony. No damage.

STILL. Friday, April 7, 9.27 A. M. Chimney fire in rear of 44 Merrimack street, in cottage owned by Knights of Pythias associates and occupied by Clara Dearborn. Members of Truck 1 responded. Used two charges of Pony. No damage.

Box 21. Monday, April 10, 4.06 P. M. Shed in rear of 121 Merrimack street, adjoining L of house owned by Peter Rogers and occupied by Rhoderick Carroll and others. Caused by hot ashes in wooden barrel. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$6,000; damage, \$350; insurance, \$4,000; insurance paid, \$350. Value of contents, \$300; damage, \$100; no insurance.

STILL. Tuesday, April 11, 9.10 P. M. Chimney fire in tenement house, 478 North Main street, owned by Mary Connelly and occupied by her and other tenants. Members of Engine and Ladder 6 responded. Used two charges of Pony. No damage.

STILL. Wednesday, April 12, 11 A. M. A kettle of lard boiled over and caught fire in house occupied by James B. Thurston, 89 North Adams street. Members of Engine and Ladder 5 responded with hose carriage. No damage.

STILL. Saturday, April 15, 12.25 P. M. Brush fire on the Bedford road on land belonging to Huntress heirs and others. Members of Engine Company 2 responded with hose wagon. Used four charges of Pony. No damage.

Box 13. Saturday, April 15, 8.14 P. M. Three-story dwelling, 1602 Elm street, owned and occupied by Edward M. Slayton. Fire originated in the cellar among shavings and wood from some unknown cause, and was confined wholly to basement, although the entire house was filled with smoke. Box pulled by Fireman H. H. Cole. Companies responding: Engines 1, 5, Chemical, Hose 1, 2, Truck 5. Value of building, \$15,000; damage, \$1,200; insurance, \$11,000; insurance paid, \$1,200. Value of contents, \$12,000; damage, \$450; insurance, \$11,000; insurance paid, \$450.

STILL. Monday, April 17, 12 M. Brush fire on land owned by Amoskeag Manufacturing Company, corner Hevey and Wayne streets. Members of Engine and Ladder Company 6 responded with hose carriage. No damage.

Box 217. Tuesday, April 18, 12.12 P. M. Grass fire on Oakland avenue, near Mammoth road. Needless alarm. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 2, Truck 3. No damage.

STILL. Tuesday, April 18, 8.05 P. M. Three-story wooden tenement block, 10 Clark avenue, owned by estate of Joseph B. Clark and occupied by several families. Overheated chimney ignited woodwork in tenement occupied by Eli —. Chemical engine responded. Value of building, \$3,500; damage, \$20; insurance, \$2,500; insurance paid, \$20. No damage to contents.

Box 7. Wednesday, April 19, 10.53 A. M. Brick ash pit, rear of Hanover Flats, 235 Hanover street, owned by E. M. James, Mrs. Mary J. James, and Mrs. Susie Larabee and occupied by several families. Box pulled by Officer Hildreth. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$40,000; damage, \$20; insurance, \$20,000; insurance paid, \$20. No damage to contents.

Box 15. Thursday, April 20, 8.24 A. M. Ash box in rear of 28 Clarke avenue. Cause, hot ashes. No damage. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 3, 5.

Box 212. Saturday, April 22, 3.02 P. M. Grass fire on the land of the Elliot Hospital, east of Massabesic street. Needless alarm. No damage. Companies responding: Engines 3, 4, Chemical, Hose 2, Truck 1.

Box 261. Saturday, April 22, 3.58 P. M. Brush fire in Derryfield Park on Oak Hill. Set by boys. No damage. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Truck 1.

STILL. Saturday, April 22, 5.15 P. M. Grass fire on land of Henry A. Farrington, near corner Clarke and Chestnut streets. No damage. Members of Engine and Ladder 5 responded with hose carriage. Used one charge of Pony.

STILL. Monday, April 24, 1.30 P. M. Grass fire on land of F. G. Stark, on West Hancock street. Members of Engine 2 responded. Used two charges of Pony. No damage.

STILL. Tuesday, April 25, 2.47 P. M. Brush fire on Goffstown road, near buildings of George R. Jackson. Members of Engine Company 2 responded with hose carriage. Used two charges of Pony. No damage.

Box 82. Friday, April 28, 11.05 A. M. Three-story brick block owned by Story heirs, 1082 Elm street, and occupied by Manchester Heating & Lighting Company. Fire caught from forge in basement. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 3. Value of building, \$12,000; damage, \$300; insurance, \$4,000; insurance paid, \$300. Value of contents, \$25,000; damage, \$524.27; insurance, \$10,500; insurance paid, \$524.27.

Box 114. Friday, April 28, 12.26 P. M. Brush fire on Oak Hill, adjoining Derryfield park. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical, Hose 1, 2, Truck 5.

STILL. Friday, April 28, 2.30 P. M. Grass fire at corner of Putnam and Dubuque streets on land owned by Amoskeag Manufacturing Company. Members of Engine and Ladder 6 responded with hose carriage. No damage.

Box 8. Monday, May 1, 1.34 P. M. A spark from chimney ignited the shingles on roof of building, 1205 Elm street, owned by E. L. Kim-

ball and occupied by G. N. Waterman as a laundry. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. No damage.

2—2—2. Thursday, May 4, 7.50 P. M. Brush fire in Amoskeag, near Rock Rimmon. Delegations from Engines 5 and 6. responded. No damage.

Box 8. Monday, May 8, 9.24 A. M. A spark from the chimney of G. H. Waterman's laundry, in block owned by Kimball & Hobbs, 1205 Elm street, set fire to the shingles. Damage slight. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$3,500; damage, \$10; insurance, \$3,000; insurance paid, \$10. No damage to contents.

Box 82. Saturday, May 13, 11.16 P. M. In two-and-half-story house, 114 Concord street, owned by Mrs. John D. Bean and occupied by several families, a lounge caught fire from some unknown cause. Damage slight. Box pulled by officer. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Truck 1, 5.

Box 81. Sunday, May 14, 12.18 A. M. Five-story stone building (The Kennard), 1008 Elm street, owned by Mead, Mason & Company and occupied as stores and offices. The fire originated in the basement or stairway connected with the Hub Clothing Company (A. Custen, treasurer), and obtained a good headway before it was discovered. Cause unknown. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, Trucks 1, 5. Value of building, \$175,000; damage, \$9,750; insurance, \$127,000; insurance paid, \$9,750. Value of contents, \$50,400; damage, \$12,815.22; insurance, \$37,300; insurance paid, \$11,990.22.

STILL. Monday, May 15, 1 P. M. Hot coke in the coke shed of the People's Gas Company caused a slight blaze. Hose Company 3 responded. No damage.

STILL. Monday, May 15, 6.50 P. M. A telephone message was sent to Central Station saying "Send Chemical at once for a fire on Hayward street." Chemical engine responded but no fire could be found.

STILL. Thursday, May 18, 5.54 P. M. Chimney fire in tenement house, 415 Granite street, owned by Clapp & French, and occupied by several families. Members of Engine 2 responded. Used two charges of Pony.

Box 81. Thursday, May 18, 11.59 P. M. Chimney fire in tenement block, 93-95 Amherst street, owned by estate of John D. Patterson. No damage. Box pulled by officer. Companies responding: Engines 1, 4, Chemical, Hose 1, Truck 1.

STILL. Tuesday, May 23, 8.40 A. M. Chimney fire in two-tenement house, 354 Amherst street, owned by Mrs. Martin. Members of Chemical Company responded. No damage. Used one charge of Pony.

Box 82. Thursday, May 25, 7.06 P. M. Two-and-half story wooden tenement block, 8 Bridge street, owned by Chandler Brothers and occupied by William Coté and others. A bed in Coté's tenement caught fire from some unknown cause. Box pulled by Officer Moher. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. No damage to building. Damage to contents slight.

Box 17. Thursday, May 25, 7.32 P. M. Two-story dwelling at 509 Beech street, owned and occupied by Michael Connor. Fire started in closet in L part from some unknown cause. Box pulled by citizen. Companies responding: Engines 1, 3, 6, Chemical, Hose 1, 2, Truck 3. Value of building, \$5,000; damage, \$300; insurance, \$2,800; insurance paid, \$200. Value of contents, \$1,500; damage, \$150; no insurance.

STILL. Friday, May 26, 9.20 A. M. Chimney fire in eight-tenement block, 40 Orange street, owned by heirs of Joseph B. Clark. Used one charge of Pony. No damage.

STILL. Friday, May 26, 11 A. M. Rimmonville shoeshop, occupied by H. B. Reed & Company, on Kelly street. Slight fire in partition. Members of Engine and Ladder 6 responded.

STILL. Monday, May 29, 8.20 P. M. Chimney fire at 193 Lake avenue, in two-and-half-story wooden house, owned by heirs of J. Donovan, and occupied by John Kelley. Chemical engine responded. Used one charge of Pony.

STILL. Thursday, June 1, 2.30 A. M. Two-story wooden tenement block, 363 Chestnut street, owned by Isaac Huse and occupied by several families. A sawdust spittoon caused a slight fire and considerable smoke in the carpenter shop of Theop Manda. Chemical engine responded.

STILL. Wednesday, June 7, 3.45 P. M. Railroad ties on Boston & Maine Railroad, near Byron street. Hose Company 3 responded.

STILL. Thursday, June 8, 10.30 P. M. Burning paper in cellar of Tewksbury block, under American Express Company. No damage. Members of Chemical Company responded.

STILL. Saturday, June 10, 8.40 A. M. Barn in rear of 55 Pennacook street, owned by Mrs. Charles F. Senter and occupied by Samuel Gagnon. Rubbish in cellar caught fire from cigarette stub. Chemical engine responded.

STILL. Saturday, June 10, 9.30 P. M. Tenement house, 11 Nashua street, owned by William Corey and occupied by George E. Whittemore. Kerosene lamp tipped over. No damage. Members of Hose 2 responded.

Box 15. Monday, June 12, 10.31 A. M. Ash box in rear of 28 Clark avenue, owned by Clark heirs. No damage. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

STILL. Monday, June 12, 8.43 P. M. Chimney fire in tenement house at 143 South Main street, owned by George S. Eastman and occupied by several families. Members of Engine Company 2 responded. Used two charges of Pony. No damage.

STILL. Monday, June 12, 10.20 P. M. Same place as above. Soot collected in an old fireplace which had been bricked up; the woodwork became ignited. Members of Engine Company 2 responded. Used six charges of Pony. Value of building, \$1,800; damage, \$35; insurance, \$1,200; insurance paid, \$35. No damage to contents.

STILL. Tuesday, June 13, 8.50 A. M. Chimney fire in eight-tenement

block, 251 Chestnut street, owned by the John Sweeney estate. Members of Chemical Company responded. Used one charge of Pony. No damage.

Box 5. Thursday, June 15, 3.03 A. M. Three-story building, 65 Central street, owned and occupied by James Lynch as a liquor saloon. Cause, cigar stub in sawdust spittoon. Burned a small hole in the floor. Box pulled by a boy. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$4,500; damage, \$25; insurance, \$4,000; insurance paid, \$25. No damage to contents.

Box 39. Sunday, June 18, 4.31 P. M. Lumber yard of the S. C. For-saith Company, corner Valley and Pine streets. Caught from burning grass set by boys. Box pulled by Jailer Wadsworth. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Tuesday, June 20, 4.45 P. M. Lightning struck the four-tenement house, 440 Belmont street, owned by Mrs. Joseph Steuber. Members of Engine and Ladder 3 responded. Used one charge of Pony. No damage from fire.

Box 212. Tuesday, June 20, 8.40 P. M. Cottage house, 29 Jones street, owned by Dr. C. M. Dodge and occupied by C. R. Pickering. Fire evidently was caused by lightning entering the building on electric wires. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 2, Truck 3. Value of building, \$2,500; damage, \$650; insurance, \$1,500; insurance paid, \$650. Value of contents, \$1,000; damage, \$475; insurance, \$700; insurance paid, \$475.

Box 4. Wednesday, June 21, 6.20 A. M. Three-story house, 45 Spruce street, owned by Mary Willis and occupied by John Glavin. Fire caught in woodbox from sparks from chimney. Box pulled by citizen. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$2,000; damage, \$40; insurance, \$1,500; insurance paid, \$40. No damage to contents.

Box 4. Wednesday, June 21, 5 P. M. Chimney fire in the one-story brick building, 383-389 Elm street, owned by the Head & Dowst Company and occupied by Charles Noll. Needless alarm. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

Box 6. Thursday, June 29, 8.56 P. M. Four-story brick block, 33 Hanover street, owned by Harrington heirs and occupied by R. Co-daire & Company as millinery store. Cause of fire, gas jet igniting curtain. Box pulled by Officer Cooledge. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Trucks 1, 3. Value of building, \$28,000; damage, \$553; insurance, \$28,000; insurance paid, \$553. Value of contents, \$6,500; damage, \$3,500; insurance, \$2,500; insurance paid, \$2,500.

Box 4. Saturday, July 1, 4.35 A. M. One-story brick storehouse, 375 Elm street, owned by the Head & Dowst Company, and occupied by the John B. Varick Company as a storehouse. Cause unknown. Box pulled by citizen. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$8,000; damage, \$300; insur-

ance, \$2,000; insurance paid, \$300. Value of contents, \$8,245; damage, \$3,051.78; insurance, \$8,000; insurance paid, \$3,051.78.

STILL. Saturday, July 1, 7.35 A. M. A slight fire in shed in rear of 61 Amherst street, caused by boys playing with matches. Used one charge of Pony. Hose Company 1 responded with hose carriage. No damage.

Box 21. Sunday, July 2, 11.15 A. M. Kerosene stove, at 159 Central street, house owned by Patrick Kean and occupied by Mrs. Bertha Palmer. Needless alarm, as stove was thrown out the window. Box pulled by citizen. Companies responding: Engines 1, 3, Hose 1, Trucks 1, 3.

STILL. Sunday, July 2, 1.45 P. M. A pot of brimstone, in shop of Joseph A. Ricard, 150 North Main street, in block owned by Gordon Woodbury, caught fire from some unknown cause, filling the shop with smoke, but causing no damage. Members of Engine 2 responded.

STILL. Monday, July 3, 11 A. M. Grass fire on land of George E. Hall, River road north. Members of Engine and Ladder 5 responded. Used two charges of Pony.

Box 15. Monday, July 3, 10.49 P. M. A slight fire in some rubbish in grocery store of Baron & Charpentier, at 60 Pearl street, in four-story wooden block owned by Charles C. Hayes. No damage. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Truck 5.

Box 52. Tuesday, July 4, 8.02 A. M. Two-and-half-story wooden tenement house, 22-24 Dover street, owned by Henry E. Burnham and occupied by Antoine Sharkey, Edward Garon, and Joseph Guarry. Cause of fire unknown. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$1,500; damage, \$300; insurance, \$1,000; insurance paid, \$293.48. Value of contents, \$400; damage, \$25; no insurance.

Box 16. Tuesday, July 4, 10.11 A. M. Two-story wooden tenement house, 413 Pine street, owned by Connor heirs and G. E. Gage and occupied by Edwin Gowette as a boarding-house. Cause of fire, defective chimney. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$2,500; damage, \$267; insurance, \$1,000; insurance paid, \$267. Value of contents, \$600; damage, \$20; no insurance.

STILL. Tuesday, July 4, 3.50 P. M. Two-and-half-story wooden tenement building, rear of Lake avenue, owned by D. A. Shanahan and unoccupied. Cause of fire, crackers. Chemical engine responded.

STILL. Tuesday, July 4, 6.31 P. M. Three-story wooden tenement block, 66 Concord street, owned by S. W. Parsons heirs. Slight fire in rubbish in cellar. No damage. Chemical engine responded.

STILL. Thursday, July 6, 10.45 A. M. Grass fire on farm of Alonzo Elliott, on River road north. Set by locomotive on Boston & Maine Railroad. Members of Engine 5 responded with hose carriage. Used two charges of Pony.

STILL. Thursday, July 6, 11.03 A. M. Grass fire on Otis Clark farm on River road north. Set by locomotive on Boston & Maine Railroad. Members of Engine and Ladder 5 responded with hose carriage.

Box 4. Thursday, July 6, 1.16 P. M. Second alarm immediately followed. Fire was discovered in wood yard of Henry St. Cyr, in rear of 60 Spruce street, which rapidly spread to the two-and-half-story houses of Catherine Connor, No. 60, Bartholomew Bresnahan, No. 56, Timothy Kenney, No. 50, Martin O'Malley, No. 46, James McSweeney, No. 62, all of which were considerably damaged by fire and water. Owing to a high wind at the time, and the buildings being extremely dry, the result of a long drought, sparks and cinders ignited many other buildings, and at one time twenty-two buildings were on fire at one and the same time. A second alarm was pulled immediately on the arrival of the first piece of apparatus, and an alarm from box 21 for a fire from sparks was pulled soon afterwards by a citizen. Companies responding to box 4: On first alarm, Engines 1, 2, 3, Chemical, Hose 1, Trucks 1, 3; on second alarm, Engine 4, Hose 2, Truck 5.

Box 21. 1.58 P. M. During the progress of the above fire, a citizen pulled box 21 for the spreading of the fire, calling Engines 5, 6, Truck 6, thus bringing out every piece of apparatus. Value of buildings, \$14,300; damage, \$2,788; insurance, \$8,900; insurance paid, \$2,763. Value of contents, \$1,200; damage, \$600; no insurance.

STILL. Wednesday, July 12, 8.20 P. M. Soot in the large chimney of the Kimball Brothers' shoeshop, corner Massabesic and Cypress streets. Members of Engine and Ladder 3 responded with hose carriage. No damage.

STILL. Friday, July 14, 10.30 P. M. Electric car "burn-out" while on the street railway track, corner Lake avenue and Wilson street. Members of Engine and Ladder 3 responded.

STILL. Saturday, July 15, 12.50 P. M. Cottage house, 116 Auburn street, owned by Catherine O'Neil and occupied by Timothy O'Neil. Smoke from some unknown cause was the cause for calling the Chemical engine.

STILL. Monday, July 24, 3.15 P. M. Chimney fire in tenement house, 267 Cedar street, owned by Mrs. Kennedy and occupied by several families. Used one charge of Pony. No damage.

Box 8. Friday, August 4, 3.01 A. M. Two-story addition to the New City Hotel, rear 1138 Elm street, owned by Clough & Hall, William H. Hurd, and occupied by him as kitchen and serving room to the hotel. Cause of fire unknown. Box pulled by Officer Parmenter. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$20,000; damage, \$800; insurance, \$4,000; insurance paid, \$796. Value of contents, \$15,000; damage, \$1,191.62; insurance, \$10,000; insurance paid, \$995.62.

STILL. Saturday, August 5, 7.35 P. M. Awning on the Kennard, 1008 Elm street, caught fire from a cigar stub. Members of Chemical responded. Used one charge of Pony. Damage slight.

STILL. Monday, August 7, 1.45 P. M. Chimney fire in brick tenement block, 50 Mechanic street, owned by Amoskeag Manufacturing Company and occupied by Charles F. McCoy. Members of Chemical responded. Used one charge of Pony.

STILL. Friday, August 11, 11.45 A. M. Chimney fire in two-tenement house, 249 Cedar street, owned by Mrs. Thomas Frain and occupied by J. G. Brown. Used one charge of Pony. No damage.

Box 7. Monday, August 14, 2.30 P. M. Two-story five-tenement house, 123 Hanover street, owned by George F. Boshier and occupied by H. Halverson, Fred Wolf, J. D. Nichols, Frank Moreau, and Louis Krowadz. Cause of fire, defective chimney. Box pulled by Deputy Chief Cassidy. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$1,000; damage, \$75; insurance, \$500; insurance paid, \$74. Damage to contents slight.

STILL. Tuesday, August 15, 10.20 A. M. Chimney fire at 8 Laurel street, in twelve-tenement block, owned by heirs of E. W. Bartlett. Used one charge of Pony. No damage.

Box 71. Tuesday, August 15, 4.39 P. M. A twelve-tenement brick block, 184 Chestnut street, owned by Griffin Brothers and occupied by Thomas King, in whose tenement the fire originated. Cause unknown. Box pulled by James Dowd. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$15,000; damage, \$263; insurance, \$8,000; insurance paid, \$263. Value of contents, \$250; damage, \$150; no insurance.

STILL. Monday, August 21, 2 P. M. Brush fire on land of Sullivan and Sheehan, corner Lafayette and Amory streets. Members of Engine and Ladder 6 responded with hose wagon. No damage.

Box 8. Saturday, August 26, 9.52 P. M. Chimney fire in brick block, 13 Hollis street, owned by W. F. Hubbard and occupied by Ludger Turcotte. Used two charges of Pony. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

STILL. Wednesday, August 30, 5.35 A. M. Tenement block, 5 Marion street, owned by Gordon Woodbury and occupied by several families. Burning chimney. Members of Engine and Ladder 6 responded. Used three charges of Pony.

Box 51. Friday, September 1, 4.34 A. M. Two-story wooden building on Blaine street owned and occupied by the Beethoven Singing Club and used by them as a clubhouse. Cause, cigar stub. Box pulled by James Thompson. Companies responding: Engines 2, 6, Chemical, Truck 6. Value of building, \$1,200; damage, \$115; insurance, \$1,200; insurance paid, \$115.

STILL. Monday, September 4, 6.40 P. M. Chimney fire in tenement block, 143 McGregor street, owned by C. Senter and occupied by several families. Members of Engine and Ladder 6 responded. No damage. Used three charges of Pony.

STILL. Thursday, September 7, 2.18 P. M. Sparks from a brush fire at Derryfield park ignited shingles on roof of shed connected with the

city pesthouse. Chemical engine and Hose 2 responded. No damage.

STILL. Friday, September 8, 12.10 P. M. Wooden "ten-footer" on West Central street, connected with Kimball Carriage Company. Loose paper caught from some unknown cause. Chemical engine responded. No damage.

STILL. Monday, September 11, 1.45 P. M. Cottage house with barn connected, on Bald Hill road (two miles from Elm street), owned and occupied by George Booth. Cause unknown. Chemical engine and Hose Company 2 responded. Used three tanks of Chemical and one charge of Pony. Value of building, \$900; damage, \$900; insurance, \$800; insurance paid, \$800. Value of contents, \$1,100; damage, \$250; no insurance.

Box 73. Sunday, September 17, 8.52 P. M. Two-and-half-story house, 241 East Spruce street, owned by Michael Hackett and occupied by him and Alfred Firth. A lace curtain in Firth's tenement came in contact with gas jet. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3. Value of building, \$2,800; damage, \$12.50; insurance, \$2,200; insurance paid, \$12.50. Value of contents, \$1,000; damage, \$8; insurance, \$700; insurance paid, \$8.

STILL. Tuesday, September 19, 5.50 P. M. Fire in woods in rear of Mrs. Charles S. Kidder's, North Union street. No damage. Members of Engine and Ladder 5 responded.

STILL. Tuesday, September 19, 9.25 P. M. One-story wooden building, 16 Prospect street, owned by Gordon Woodbury and occupied by J. Wesley Smith as laundry. Fire originated under the boiler, from defective construction. Chemical engine responded. Value of building, \$700; damage, \$10; no insurance. Value of contents, \$600; damage, \$34; insurance, \$500; insurance paid, \$34.

Box 15. Thursday, September 21, 7.59 P. M. A slight fire in tenement of Joseph Chainey, 39 Pearl street. Cause unknown. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. No damage.

STILL. Saturday, September 23, 12.55 P. M. Tenement house, 410 Dubuque street, owned by Mr. Holley and occupied by Thomas Francis. Explosion of gasoline stove. Damage slight. Members of Engine and Ladder 6 responded.

Box 15. Monday, September 25, 6.40 A. M. Chimney fire in four-story wooden block, 8 Clark avenue, Pearl street. No damage. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

Box 71. Saturday, September 30, 6.15 P. M. Three-story tenement block, 240 Chestnut street, owned by Thomas Wheat heirs and occupied by Samuel Kester. Slight fire in pile of rags in cellar. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Truck 3.

Box 4. Saturday, October 7, 6.03 P. M. Chimney fire at 67 Spruce street, in house owned by Henry I. Haselton. No damage. Box pulled

by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Wednesday, October 11, 6.30 P. M. Lamp exploded in tenement house, 31 Nashua street, owned by H. B. Sawyer and occupied by Mrs. Gavin. Members of Hose 2 responded. Value of building, \$6,000; damage, \$45; insurance, \$4,500; insurance paid, \$45.

Box 82. Sunday, October 15, 6.21 P. M. Three-story brick block, 1054 Elm street, owned by heirs of A. B. Story and occupied by DeMouplied & Gresley as furniture store. Fire originated in bulkhead filled with excelsior and packing boxes. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$15,000; damage, \$55.50; insurance, \$10,000; insurance paid, \$55.50. Value of contents, \$18,000; damage, \$193; insurance, \$5,000; insurance paid, \$193.

STILL. Monday, October 16, 8.50 P. M. Two-story wooden block, 21 Amherst street, owned by Mr. Thompson and occupied by John Friberg as cobbler shop. Kerosene lamp exploded. Used one charge of Pony. No damage.

STILL. Saturday, October 21, 7 P. M. Chimney fire in brick tenement block, 14 Arlington street, owned by the Amoskeag Manufacturing Company. No damage. Chemical engine responded.

STILL. Monday, October 23, 12.05 P. M. Slight fire in cellar of cottage house, corner Chestnut and North streets, owned by George E. Kendall and occupied by Edward L. Kimball. Chemical engine and hose carriage of Engine and Ladder 5 responded. Used one charge of Pony. No damage. Cause, children with matches.

STILL. Wednesday, October 25, 2.16 P. M. Chimney fire in house at 336 Beech street. Used one charge of Pony.

STILL. Thursday, October 26, 5.50 P. M. Kerosene lamp exploded in house, 400 Dubuque street, owned and occupied by John Martin. Members of Engine and Ladder 6 responded. No damage.

Box 31. Saturday, October 28, 6.07 P. M. One-story brick building, Manchester Locomotive Works. Slight fire caused by careless use of benzine. No damage. Box pulled by citizen. Companies responding: Engines 1, 6, Chemical, Hose 1, Trucks 1, 5.

Box 21. Monday, October 30, 12.26 A. M. Second alarm pulled immediately. A fierce fire was discovered in the wood-yard, rear of 168 Lake avenue, owned and occupied by Edmond Bourque. It quickly spread to adjoining buildings and the second alarm was pulled in. Cause unknown. Box pulled by Officer O'Malley. Companies responding: On first alarm, Engines 3, 4, Chemical, Hose 1, Trucks 1, 3; on second alarm, Engines 1, 2, Hose 2, Truck 5. Value of buildings, \$5,000; damage, \$361.80; insurance, \$2,600; insurance paid, \$361.80. Value of contents, \$1,975; damage, \$935; insurance, \$1,550; insurance paid, \$650.43.

Box 21. Monday, October 30, 5.12 A. M. Rekindling of previous fire in the coving of the L, rear of 168 Lake avenue. No damage. Box

pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3.

STILL. Friday, November 3, 2.09 P. M. Four-story wooden block 192 Merrimack street, owned by Perry A. Eaton and occupied by several families. Fire originated in basement from overheated chimney. Members of Chemical responded. Used one charge of Pony. No damage to contents. Value of building, \$5,000; damage, \$25; insurance, \$1,000; insurance paid, \$25.

STILL. Tuesday, November 7, 5.37 P. M. Chimney fire in two-and-half-story dwelling, at 388 Manchester street, owned and occupied by Roper heirs. Chemical engine responded. No damage.

STILL. Friday, November 10, 2.15 P. M. Brush fire between Sagamore, Russell, Oak, and Gore streets, set by boys. Hose carriage from Engine and Ladder 5 responded. No damage.

Box 213. Monday, November 13, 8.48 A. M. A small cottage house on Beech street, south of Portsmouth Railroad, owned by Frank X. Chenette and occupied by Thomas Tierny. Cause of fire unknown. Box pulled by citizen. Companies responding: Engines 1, 3, Hose 2, 3, Truck 3. Value of building, \$650; damage, \$50; insurance, \$300; insurance paid, \$50.

STILL. Tuesday, November 14, 10.30 A. M. Chimney fire in brick block, 1087 Elm street, owned by A. F. Perry and occupied by Miss M. Jones as dressmaker. Members of Chemical responded. Used one charge of Pony. No damage.

Box 21. Wednesday, November 15, 3.50 A. M. Second alarm, 4.05 A. M. Three-story wooden block, 142-144 Central street, corner Pine, owned by Nason Hall and occupied by J. N. DesGroseilliers on first floor as grocery store, and second and third floors by John W. Coffery as a boarding-house. The fire started in the third story in room occupied by John Morrison, who was so nearly suffocated that he died in the afternoon of the same day. Box pulled by citizen. Companies responding: On first alarm, Engines 3, 4, Chemical, Hose 1, Trucks 1, 3; on second alarm, Engines 1, 2, Hose 2, Truck 5. Cause of fire unknown. Value of building, \$3,500; damage, \$475; insurance, \$1,500; insurance paid, \$475. Value of contents, \$3,500; damage, \$397; insurance, \$2,000; insurance paid, \$397.

STILL. Saturday, November 18, 9 P. M. Four-story brick block (Webster House), 1306 Elm street, owned by Simons, French, Connor, and others, and occupied by Orville C. McColley as a hotel. Fire caught under the range from careless construction and ignited floor boards and timbers underneath. Chemical engine responded. Used one charge of Pony. Damage, \$8; fully insured.

STILL. Monday, November 20, 6.23 P. M. Tenement block, corner Granite and West streets, owned by Clapp and French and occupied by several families. Officer saw dense smoke on roof and telephoned for help. Members of Engine and Ladder 2 responded. No fire discovered.

STILL. Thursday, November 23, 5.55 A. M. Chimney fire in three-story wooden block, 43 Central street, owned by Philip Riley and occupied by Louis Cardinal and others. Used one charge of Pony. No damage. Chemical engine responded.

Box 21. Thursday, November 23, 12.30 P. M. Three-story wooden block, 118 Central street, owned by Patrick A. Devine. Slight fire in a rack of wall paper, which was thrown out of store before arrival of department. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3.

STILL. Friday, November 24, 3 P. M. Chimney fire in three-story wooden block, 142-144 Central street, corner Pine. Members of Chemical responded. Used one charge of Pony. No damage.

STILL. Friday, November 24, 8.15 P. M. Sawdust in the unoccupied shed connected with the residence of the late Gov. E. A. Straw. Probably set by boys. Chemical responded.

STILL. Saturday, November 25, 4.15 P. M. Sawdust in shed of late Gov. E. A. Straw estate, again started. Members of Engine and Ladder 5 responded with hose carriage. Used one charge of Pony. No damage.

STILL. Saturday, November 25, 4.55 P. M. Chimney fire in eight-tenement wooden block, 21 Clark avenue, owned by Charles C. Hayes and occupied by several families. Members of Chemical responded.

STILL. Saturday, November 25, 6.45 P. M. Chimney fire in four-tenement wooden building, 141 Manchester street. Used one charge of Pony. No damage.

Box 21. Tuesday, November 28, 7.22 P. M. Some excited person saw smoke and, imagining there was a fire, pulled the box. No fire was discovered. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, Trucks 1, 3.

STILL. Friday, December 8, 9.40 P. M. Four-tenement block, 42 Church street, owned by A. H. Weston and occupied by several families. Chimney fire. Chemical engine responded. Used one charge of Pony. No damage.

STILL. Saturday, December 9, 10.10 A. M. Chimney fire in two-and-half-story house, 84 Auburn street, owned and occupied by Bridget Langley. Chemical engine responded. Used one charge of Pony. No damage.

STILL. Saturday, December 9, 8.45 P. M. Chimney fire in tenement block, 39 Winter street, owned by Charles M. Floyd and occupied by several families. Members of Engine Company 2 responded. Used three charges of Pony. No damage.

STILL. Tuesday, December 12, 3.40 P. M. Chimney fire in cottage house of George Young, on Bridge street extension (two and one half miles from City Hall). Chemical engine responded but was stopped at Stevens's pond and sent back. Used one charge of Pony. No damage.

STILL. Wednesday, December 13, 7.05 P. M. Three-story brick block,

981-985 Elm street, owned by J. A. Weston heirs and occupied by F. W. Woolworth & Company as a 5 and 10 cent store. Fire originated on some shelves of toys in rear part of store and was extinguished with but little damage. Value of buildings, \$4,500; damage, \$10; insurance, \$1,000.

Box 45. Thursday, December 14, 12.11 A. M. One-story wooden building, corner Granite and Canal streets, owned by Mrs. Antoinette Hill and occupied by the Drew Machinery Agency, for the sale of various kinds of machinery. Cause, spontaneous combustion. Box pulled by Chandler Clough. Companies responding: Engines 1, 2, 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$1,500; damage, \$30.50; insurance, \$1,200; insurance paid, \$30.50. Value of contents, \$3,000; damage, \$45; insurance, \$2,500; insurance paid, \$45.

Box 312. Friday, December 15, 1.13 A. M. A pile of empty "car-boy" boxes in yard of Print Works laboratory, corner Turner and Douglas streets, ignited from spontaneous combustion. No damage. Box pulled by Officer Rainville. Companies responding: Engines 2, 4, 6, Chemical, Hose 1, Truck 6.

STILL. Thursday, December 14, 5.30 P. M. Basement of No. 4 West Cedar street, used as an "image" shop. Lamp explosion. Chemical engine responded. No damage.

STILL. Thursday, December 14, 6.40 P. M. Chimney fire in tenement block, 47 Church street, owned by Tom W. Robinson. Used one charge of Pony. No damage.

STILL. Sunday, December 17, 5.40 P. M. Two story wooden house, 104 Auburn street, owned and occupied by W. J. McLaughlin. Chimney fire. Used one charge of Pony. No damage.

Box 18. Monday, December 18, 8.27 P. M. Barn in rear of 375 Manchester street, owned by George F. Boshier and occupied by David Ingalls and Aaron Gray. Cause of fire unknown. Box pulled by William A. Crowther. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Truck 3. Value of building, \$3,500; damage, \$450; insurance, \$2,500; insurance paid, \$450. Value of contents, \$298; damage, \$263; insurance, \$100; insurance paid, \$100.

STILL. Tuesday, December 19, 2.45 P. M. Chimney fire in wooden tenement block, 148 McGregor street, owned by Gordon Woodbury. Members of Engine and Ladder 6 responded. No damage.

Box 112. Wednesday, December 20, 12.34 P. M. Cottage house, 278 Walnut street, owned by I. G. Rowell of Sutton and occupied by A. P. Cofill and S. O. Rogers. The fire started in partition downstairs and went to an open attic in the L. Cause, plumbers thawing water pipes. Box pulled by citizen. Companies responding: Engines 4, 5, Chemical, Hose 2, Truck 5. Value of building, \$2,800; damage, \$135; insurance, \$1,500; insurance paid, \$135. Value of contents, \$1,000; damage, \$25; insurance, \$350.

STILL. Friday, December 22, 6.40 A. M. Chimney fire in three-tenement block, rear 22 Wayne street, owned by Kate Cullity. Members of

Engine and Ladder 6 responded. Used three charges of Pony. No damage.

STILL. Sunday, December 24, 7.47 P. M. Two-story tenement house, 578 Beech street, owned by L. W. Page and occupied by H. B. Clough. Fire caught from gas jet in bathroom, doing slight damage to the house. Chemical engine responded. Value of building, \$4,000; damage, \$100; insurance, \$3,000; insurance paid, \$100.

STILL. Saturday, December 30, 7.54 P. M. Two-and-half-story block, 1129 Elm street, owned by Chadwick and Kennard heirs and occupied by Arthur Dumas as jewelry store. Cause, thawing water pipes. Members of Chemical responded. No damage.

STILL. Sunday, December 31, 1.30 P. M. Chimney fire in tenement house, 20 Nashua street, owned by Alonzo D. Richards and occupied by Gilman Langmaid. Members of Hose Company 2 responded. Used one charge of Pony. No damage.

COMPANIES RESPONDING.

MONTHS.	ENGINES.						Chemical	HOSE.			TRUCKS.			
	1	2	3	4	5	6		1	2	3	1	3	5	6
January	6	6	6	6	2	5	16	9	5	4	4	7	2	5
February	2	...	...	2	...	...	5	2	2	...	2	1	1	...
March	5	1	4	2	...	1	8	6	2	...	2	5	...	1
April	6	...	6	7	5	...	13	9	8	...	6	7	3	...
May	6	...	1	5	4	1	8	6	4	1	5	1	4	...
June	6	3	5	3	1	...	9	6	3	3	6	6	1	...
July	5	3	3	2	3	2	8	7	3	2	5	3	3	2
August	3	...	2	3	2	...	4	4	2	...	4	2	2	...
September	3	1	2	3	2	1	9	4	4	...	2	2	2	1
October	3	2	3	4	1	1	7	5	2	1	5	3	3	...
November	3	2	4	2	...	...	7	3	2	1	3	4	1	...
December	1	2	2	4	1	1	10	3	2	...	1	2	1	1
Total	49	20	38	43	21	12	104	64	39	12	45	43	23	10

BOARD OF ENGINEERS.

Badge No.	NAME.	Rank.	Occupation.	Residence.
1	Thomas W. Lane	Chief.....	.....	1937 Elm.
4	Eugene S. Whitney	Assistant	Supt. Elec. Light..	No. River road.
5	Clarence R. Merrill.....	"	Grain dealer	414 Merrimack.
3	Frank M. Frisselle.....	"	Editor	58 Myrtle.
5	John Montplaiser.....	"	Grocer.....	Coolidge ave.

SPARE DRIVER.

Fred S. Morrill, teamster, 53 Beauport street.

ENGINE COMPANY No. 1.

House, 28 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
7	Charles F. McCoy	Captain.....	Machinist	50 Mechanic.
8	Frank E. Stearns	Lieutenant	Paper hanger	48 Opera block.
18	James L. Brock.....	Clerk.....	Tinsmith	21 Market.
6	Charles F. Hall.....	Engineer	Engineer.....	28 Vine.
14	Edgar A. Young.....	Asst. engineer ..	Clerk	369 Merrimack.
11	Frank H. Harvey	Driver engine...	Teamster.....	28 Vine.
12	Artemas C. Barker	Driver hose	"	28 Vine.
43	Frank B. Marston.....	Hoseman.....	Carpenter	1 Canal.
15	Thomas J. Wyatt	"	"	26 Mechanic.
9	Lewis G. Bryant	"	Coal dealer.....	423 Central.
10	Fred A. Lang.....	"	Machinist	16 M. S. B.
17	Melvin Walker.....	"	Carpenter	6 Canal.
19	Charles H. Fraser.....	"	"	363 Concord.
13	Nate M. Kellogg	"	Printer	1937 Elm.

ENGINE COMPANY No. 2.

House on North Main Street, 'Squog.

Badge No.	NAME.	Rank.	Occupation.	Residence.
71	Ruel G. Manning	Captain	Carpenter	55 Douglas.
68	George P. Ames	Lieutenant	Sup. streets	210 No. Main.
76	Jeremiah Lane	Clerk and driver of engine	Teamster	210 No. Main.
120	Henry C. Morrill	Engineer	Engineer	53 Beauport.
119	Stephen Thomes	Asst. engineer ..	Carpenter	55 Douglas.
69	Arthur W. Whitcomb....	Driver of hose..	Teamster... ..	35 No. Main.
72	Samuel A. Hill.....	Hoseman	Carpenter	86 School.
75	Robert J. Hill	"	"	86 School.
77	Daniel E. Emery.....	"	Machinist	Williams.
73	Charles S. Cousins.	"	Harness-maker ...	151 Douglas.
74	Thomas C. Foote.....	"	Wool sorter	56 No. Main.
66	Joseph H. Alsop	"	Wool waste sorter	54 Douglas.
70	Chas. M. Tewksbury.....	"	Clerk, B. & M. R.R.	278 Douglas.
67	James Ried.....	"	Truckman	431 Granite.

ENGINE AND LADDER COMPANY No. 3.

House on Lake Avenue, corner Massabesic.

Badge No.	NAME.	Rank.	Occupation.	Residence.
86	Frank F. Porter.....	Captain.....	Manufacturer.....	330 E. Spruce.
97	Edwin C. Paul.....	Lieut. of engine.	Collector.....	372 Lake ave.
98	John N. Chase....	Lieut. of truck.	Overseer.....	462 Belmont.
148	Orren S. Coburn.....	Clerk.....	Clerk.....	386 Central.
122	John P. Walker.....	Engineer.....	Machinist.....	403 Hall.
121	George B. Forsaith.....	Asst. engineer..	Engineer.....	455 Hanover.
87	George H. Wheeler.....	Driver of engine	Teamster.....	384 E. Spruce.
81	William S. McLeod..	Driver of hose..	".....	419 Lake ave.
82	Lyman W. Piper.....	Driver of truck..	Dresser.....	398 Merrimack.
114	John Wilson.....	Fireman.....	Carpenter.....	19 Warren.
110	Albert W. Smith.....	".....	Clerk.....	331 Merrimack.
80	Clarence Hackett.....	".....	Laundryman.....	672 Auburn.
85	John W. Finn.....	".....	Painter.....	501 Wilson.
88	George Taylor.....	".....	Mechanic.....	382 Lake ave.
78	George Dunnington.....	".....	Harness-maker...	401 Manchester.
79	Louis N. Dufrain.....	".....	Plumber.....	473 Hall.
89	Parker R. Brown.....	".....	Grain dealer.....	422 Merrimack.
153	Edson F. Wyman.....	".....	Manufacturer.....	382 Lake ave.
105	Herbert E. Dunbar.....	".....	Clerk.....	310 Central.
84	Harry A. Piper.....	".....	".....	375 Lake ave.

ENGINE COMPANY No. 4.

House, No. 20 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
20	Lucius B. Snelling.....	Captain.....	Pharmacist	103 Walnut.
28	John H. Wales, Jr.....	Lieutenant.....	Brick mason.....	2 M. S. B.
33	Thomas W. Lane, Jr.....	Clerk	Electrician	1937 Elm.
21	Joseph H. Gould	Engineer	Machinist	20 Vine.
27	Edward Sargent	Asst. engineer ..	"	20 Vine.
31	George A. Cann.....	Driver of engine	Teamster.....	20 Vine.
29	Ellsworth V. Rowe	Driver of hose...	"	20 Vine.
22	Walter A. Clarkson.....	Hoseman.....	Carpenter	301 Walnut.
25	Frank B. Stevens	"	Clerk	144 Blodget.
23	George Thompson	"	"	215 Salmon.
24	Harvey E. Harris	"	Laundryman.....	249 Concord.
32	Luther A. Knight.....	"	Engineer.....	16 Stark.
30	James C. Newton	"	Machinist.....	Concord, cor. [Pine
26	Alfred Gustafson	"	"	1 Malvern.

ENGINE AND LADDER COMPANY No. 5.

House, No. 44 Webster Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
49	Charles W. Brown.....	Captain.....	Clerk.....	95 Harrison.
161	Irving S. Bryant.....	Lieut. truck....	Second hand.....	884 Union.
162	George N. Burpee.....	Lieut. engine...	Electrician.....	136 Sagamore.
46	Woodbury Davison.....	Clerk.....	Carpenter.....	817 Union.
102	Walter Morse.....	Engineer.....	Machinist.....	54 Appleton.
42	Daniel W. Morse.....	Asst. engineer..	Engineer.....	1419 Elm.
125	Emil H. Smith.....	Driver engine...	Teamster.....	44 Webster.
124	Benjamin C. Cann.....	Driver truck....	".....	44 Webster.
83	Ernest E. Hubbell.....	Driver hose.....	".....	44 Webster.
47	Russell L. Cilley.....	Hoseman.....	Clerk.....	863 Chestnut
95	Edward H. Clough.....	".....	".....	859 Chestnut.
108	Edward L. Towle.....	".....	".....	72 N. Adams.
123	Charles H. Gile.....	".....	Carpenter.....	896 Union.
99	Will G. Fraser.....	".....	Electrician.....	53 Pennacook.
160	George E. Badger.....	".....	Steam fitter.....	55 Pennacook.
158	Andrew S. Fantom.....	".....	Cigar-maker.....	1443 Elm.
159	John B. Fraser.....	".....	Blacksmith.....	53 Pennacook.
101	Charles W. Warner.....	".....	Electrician.....	31 Blodget.
126	Edwin M. Dorney.....	".....	Tinsmith.....	254 Walnut.
41	Max Hawkins.....	".....	Clerk.....	73 Appleton.

ENGINE AND LADDER COMPANY No. 6.

House on Amory and Rimmon Streets.

Badge No.	NAME.	Rank.	Occupation.	Residence.
140	Frank W. Tebbetts	Captain.....	Loom-fixer.....	312 Cartier.
147	James A. Farley	Lieut. engine ...	Machinist	385 Dubuque.
142	Frank St. John	Lieut. truck.....	Marble finisher ...	15 Beauport.
138	Thomas F. Fitzsimmons.	Clerk	Painter	258 Beauport.
132	Charles Edgar.....	Engineer	Engineer	Engine-house.
133	Alcide Provencher.....	Asst. engineer ..	Machinist	516 Beauport.
134	Alphonso E. Foster.....	Driver engine...	Carpenter	Engine-house.
135	Herbert Jenne.....	Driver hose	Teamster.....	Engine-house.
136	Henry C. Crosby	Driver truck*....	"	Engine-house.
129	John Martin.....	Hoseman.....	Machinist	624 No. Main.
141	John J. Conroy.....	"	Blacksmith.....	268 Beauport.
143	Henry Stein.....	"	"	393 Hevey.
144	Arthur Provost	"	Wool sorter	516 Beauport.
145	John E. Herring.....	"	Loom-fixer.....	402 Rimmon.
131	John C. Gemmell	"	Laborer	71 Conant.
128	John H. McCabe.....	"	Clerk	310 No. Main.
139	Gideon Belisle	"	"	370 Cartier.
146	Richard F. Galway	"	Cigar-maker	460 No. Main.
130	Calvin Briun	"	Loom-fixer.....	386 Rimmon.
137	Wm. T. Lockhead.....	"	Molder	71 Conant.

CHEMICAL ENGINE COMPANY No. 1.

House, 8 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
115	Edward A. Sears	Captain.....	Electrician	247 Concord.
116	Clarence D. Palmer.....	Clerk.....	Marble dealer.....	301 Lake ave.
103	Benjamin R. Richardson	Driver	Machinist.....	548 Lincoln.
117	George H. Porter.....	Pipeman.....	Carpenter	279 Laurel.
44	Asa W. Gage *.....	Fireman.....	Lineman	26 Vine.

* Detailed driver of supply wagon.

HOSE COMPANY No. 1.

House, No. 26 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
36	Joseph E. Merrill	Captain.....	Currier	21 Ash.
52	Charles B. French.....	Lieut	Carpenter	39 M. S. B.
48	Albert A. Puffer.....	Clerk	Teamster.....	499 Beech.
37	Henry C. Parsons	Driver	"	16 Prospect.
35	Samuel W. Patten.....	Hoseman	Belt maker.....	3 M. S. B.
45	George I. Ayer	"	Electrician.....	28 M. S. B.
51	Edwin W. Merrill.....	"	Clerk	21 Ash.
50	Andrew S. Heath	"	"	27 Russell.
39	George W. Snadden.....	"	Plumber	373 Bridge.
38	Will H. Nelson	"	Gas-works emp...	100 Brook.
53	Albert W. Tucker	"	Collector	535 Granite.
34	Harry Barrett	"	Machinist	26 Vine.

HOSE COMPANY No. 2.

House on Maple Street, corner East High.

Badge No.	NAME.	Rank.	Occupation.	Residence.
54	John F. Seaward	Captain	Carpenter	27 Warren.
55	Revilo G. Houghton	Lientenant.	Gas-fitter	288 Bridge.
59	Joseph W. Batchelder...	Clerk	Carpenter	521 Maple.
57	Walter Seaward	Driver	Teamster	521 Maple.
62	Julien B. Huntley	Hoseman	Plumber	296 Pine.
60	Charles W. Powell	"	Carpenter	540 Maple.
61	Addison Seaward	"	"	296 Orange.
56	Arthur B. Merrill	"	"	Clay street.
63	James A. Rogers	"	"	761 Beech.
65	John M. Emerson	"	Plumber	19 Russell.
58	Thomas Smith	"	Carpenter	24 South.
64	Melvin W. Worthen	"	"	59 Nashua.

HOSE COMPANY No. 3.

House, South Elm Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
150	Fred S. Sloan	Captain	Fireman	23 Elm.
157	Frank D. Hardy	"	Yard brakeman...	20 Cheney plc.
151	Elmer R. Laing	Clerk	Teamster	34 Brown ave.
152	Charles H. Rogers	Driver	"	23 Elm.
153	James H. McKenzie	Hoseman	Sash-maker	Elm.
154	William P. Hall	"	"	39 Elm.
155	Henry O. Follansbee	"	Gas-maker	26 Welch ave.
156	Celon D. Stevens	"	Clerk	43 Welch ave.

HOOK AND LADDER COMPANY No. 1.

House, 18 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
111	Roseoe Dyer.....	Captain... ..	Machinist.....	40 Market.
92	Oscar P. Stone.....	Lieutenant	Clerk	312 Manchester
93	Fred W. Bond	Clerk	Loom-fixer.....	46 Stark.
94	Charles M. Denyou.....	Driver	Teamster.....	18 Vine.
91	Jerome J. Lovering	Fireman.....	Carpenter	175 Hanover.
104	Harrison H. Cole.....	"	"	883 Union.
109	George M. Jones	"	Gardener	23 Maple.
107	Henry Heap	"	Manufacturer.....	18 Vine.
113	Charles H. Laxon.....	"	Carpenter	16 M. S. B.
112	Henry Johnson.....	"	Steam-fitter	316 Walnut.
118	Charles A. Butterfield ..	"	Carpenter	177 Hanover.
90	Frank A. Pherson.....	"	Machinist	18 Vine.
106	Benjamin F. Marsh	"	Carpenter	1408 Elm.
96	Louis F. Kettle	"	"	40 Orange.
100	John Short.....	"	Clerk	1037 Elm.

RIVERSIDE HOSE No. 5.— (VOLUNTEER COMPANY.)

House, Front Street, Amoskeag.

Badge No.	NAME.	Rank.	Occupation.	Residence.
133	Thomas Hamilton.....	Captain.....	Superintendent...	160 Goffsto'n rd
136	George Lawrence.....	Lientenant.....	Milkman	349 Front.
148	Perley O. Balch	Clerk	Meat cutter.....	85 Omega.
143	Robert Hamilton.....	Steward	Mill hand.....	460 Front.
135	Charles E. Stearns	Hoseman	Milkman	329 Front.
139	Andrew J. Moynihan...	"	Blood's Loc. Wks.	450 Front.
149	Leroy O. Balch.....	"	Meat cutter	126 Goffsto'n rd
147	Charles Linen.....	"	Blood's Loc. Wks.	298 Front.
140	Clarence H. Stearns....	"	Ice-man.....	421 Front.
146	Wm. F. Stearns.....	"	Mechanic.....	411 Front.
138	Joseph Stocks	"	Second-hand	3 Dean.
145	Fred H. Balch	"	Meat cutter	228 Goffsto'n rd
142	Sherman L. Greer.....	"	Grocer.....	218 Goffsto'n rd
137	Joseph Clegg	"	Mill hand	381 Front.
151	Edward C. Manley	"	Teamster.....	411 Front.
141	Arthur Moon	"	Blacksmith.....	36 Second.
	Eben Hayes	"	Teamster.....	176 Front.
	William Alsey.....	"	Clerk	389 Front.
	Samuel Montplaiser	"	Blacksmith.....	25 Second.

REPORT
OF THE
SUPERINTENDENT OF SCHOOLS.



REPORT OF THE SUPERINTENDENT OF SCHOOLS

To the School Board, the City Councils, and the Citizens of Manchester:

The following is presented as the fifty-third annual report of the public schools of the city of Manchester, the same also being the forty-fourth report of the superintendent of public instruction, and the final school report for the year 1899:

ORGANIZATION OF THE DAY SCHOOLS.

The average number of day schools for the school year ending July 1, 1899, was 123, reckoned as follows: the equivalent of 12 rooms of high-school grade; 32 grammar-school divisions, 3 more than last year (the additions being the highest grade at Amoskeag, likewise the highest at the Parker school, and an extra division at the Rimmon school); 28 middle schools, 1 more than last year (which is the additional school established at Amoskeag, upon occupancy of the new schoolhouse there); 44 primary schools; 1 partially graded school, 1 less than last year (that at Amoskeag having become a grammar division); 5 ungraded schools, and 1 Manual Training school.

There were employed for the care of the 123 day schools,* throughout the year: 7 supervising male principals of large schools; a lady principal and a general assistant (2)† for the care of the Training school for teachers; 118 class-room teachers,‡ of whom 9 ladies and 2 gentlemen were also principals; and 3 special teachers of music and drawing; or, in all, 130 teachers for the entire year,—2 more than for the year preceding (one for the additional grammar division at the Rimmon school, and the other for the additional school at Amoskeag).

The total enrollment of different pupils in all our public schools for the school year ending July 1, 1899, was 5,717,—a loss of 85 upon the enrollment of the preceding year. This loss may be properly explained as follows: The school enrollment of 1898 was greater than that of 1897 by 301 pupils, and this was due to the fact that a considerable number of pupils attended school last year simply because they could not obtain work, on account of the "poor times"; but finding work more plentiful this year, it is not surprising that as many as 85

* Manual Training school included.

† Aided by young ladies constituting the sub-teachers' classes, who had charge of the several classrooms.

‡ Of these 118, six are males,—three sub-masters in the High school, the principal of the Rimmon school, the principal at Goffe's Falls, and the teacher of the Manual Training school.

should withdraw. It is in evidence, too, that the larger part of them are over sixteen years of age and from the lower grades of school,—which facts show they are of the class that withdraw from school whenever allowable to seek regular employment.

CHARACTER OF SUBJECTS AND QUALITY OF INSTRUCTION.

The Manchester public schools are veritable workshops. The beginner, at the age of five years, timidly approaches the teacher; but being met with smiles, an assuring voice, and an extended hand that tenderly guides him to a seat, he speedily becomes accustomed to his surroundings. He notices that his companions have seats similar to his own, that most of them (being former pupils) appear to be without fear, and that, though quiet, they exercise a certain freedom of movement. He therefore examines his seat, and begins to look about the room. Observing pretty pictures upon the walls, and colored drawings upon the blackboards, he points to some of them and smiles as he turns the attention of other pupils thereto. The pleasant voice of the teacher, however, early arrests the attention of all; for she gently leads them in song, simple Scripture readings, and the prayer of the Elder Brother of mankind. Strange as the opening exercises may appear to some of the beginners, the hearts of all now go out to the teacher; and after another song or two, they look for the teacher's further direction. Now is the turning point; she will be weighed even by the beginners, and without their knowing it. Has she good judgment and much tact, or a lack of them that shows she is found wanting? Does she discourse upon the proprieties of school life, and at length set forth rules and directions till her pupils have long since ceased to listen to what they could not understand, and are therefore already meddling with one another? No; nothing of the sort, if she is a *teacher*.

The beautiful words of the song are promptly followed by a movement of the teacher that calls the attention of her pupils to a simple drawing upon the blackboard. "Children," says she, "how many of you would like to make a picture like this for me?" An affirmative answer comes in various forms, for all have not yet learned to raise the hand. "Well, then, I'll give you paper and pencil and let you do it, and if you have your picture finished before I come to see it, you may make it over again and better. Then you may make this one and this one," pointing to other forms upon the blackboard. "I shall come to your seat to have a little talk with every one of you this morning, and I want to see you all working until I can come to you and have my talk."

The teacher then proceeds to take the name, age, and residence of each pupil; but finding, before she gets half through the registration, that several pupils are no longer interested in picture making, she leaves her work, quickly inspects the efforts of all, gives them proper commendation and material that will again interest and profit them, while she proceeds with the registration.

Thus it is that the beginner upon public school life is on his first day's attendance all unconsciously performing duties of the highest importance in school life; for the foregoing outline of his first day's partial experience is designed to be typical of his whole school career, in so far at least as to indicate that the character of the work assigned a pupil should ever be adapted to his capacity, that all subjects should be so presented and diversified as to awaken and promote the pupil's interest, sufficient collateral work being arranged to keep the brightest pupils busy, and that the quality of the instruction afforded should be such as to inspire courage, persistency of effort, and determination to overcome all difficulties.

Teachers who have a right comprehension of their duties, and the ability practically to discharge them in accordance with the general principles just briefly outlined, are not of the kind ever moralizing for the sake of hearing themselves talk, or otherwise wasting words to the exclusion of the pupil's opportunity to do his share of the talking,—which is rightfully an increasingly larger portion, after his first year at school. Pupils must be trained to think and work for themselves; hence it is not to their advantage to have teachers pluck for them the fruit of the tree of knowledge, but they may sometimes need downward to bend its boughs in order that the fruit may be within the possible reach of pupils, who should then be allowed the satisfaction of plucking the fruit for themselves as a reward for the effort made to grasp it. A wise teacher will refrain from affording other aid than encouragement when pupils can attain proper results without greater assistance. Only the wisest of teachers can properly discriminate when to afford and when to withhold direct assistance to pupils, and determine when it is afforded to what extent and in what way.

Now it is because of the high average fitness of our teachers for their work, and because they are themselves good workers, that the schools of Manchester are, as I have before said, veritable workshops, in which (for the most part, at least) progress, pleasure, and nobleness of purpose are combined.

Would that our citizens in general as fully understood this, from personal visitation and inspection, as the success of the schools warrant. Because they do not, however, and because only a few, comparatively speaking, have anything more than an imaginative idea of the work attempted in the various grades of school, I propose to set forth their work somewhat in detail, in order, if possible, to induce parents more generally to visit the schools and see in what manner the work is done. No work, I am sure, is anywhere done that is more interesting or important than that performed in the public schools; and if parents and citizens in general adequately realized the work of the schools, and the manner of its presentation, they could at least talk with their children about the schools much more intelligently and helpfully.

An outline of the work of the schools is presented in the earnest hope that a perusal of it will lead many citizens frequently to visit

the schools and observe the manner of presenting the subjects taught, as well as the treatment of pupils. Much mutual benefit would be derived from such a visitation; for parents and citizens would be highly enlightened in regard to what the schools are accomplishing, and both teachers and pupils would be greatly encouraged and inspired to attain still better results.

THE WORK OF THE PRIMARY SCHOOLS.

"Reading is the key to all knowledge," hence the propriety of giving this key to pupils as early in school as possible. During the first few days of the child's attendance at school, the teacher gains the confidence of pupils by conversational exercises in regard to familiar objects,—animals, pictures, sports; things perceived by the senses; articles of clothing or furniture; stories, etc.

When confidence has been gained and pupils become free to express their thoughts and feelings, reading from the blackboard is commenced. Only script letters are used. The meaning of words is taught by use of objects, pictures, drawings, actions, stories, etc., then the visible signs (written words) are placed upon the board, singly or combined in sentences, as the purpose may be best attained; lastly, the oral signs (pronounced words) are given. Articles, prepositions, conjunctions, and other unimportant words are first taught in sentences. It is designed that pupils shall not be permitted to read aloud until the meaning of what they are to express is first clear to them. Naturalness of expression is thus attained.

The work of the beginners' class is first to master in script all the words in the first half of the Primer, taught from the blackboard and slate according to the method above described; then the printed forms of the same words are taught while applied in reading the first half of the Primer, in print, from itself.

The Primer is finished by the end of the first year, and the First Reader by the end of the lower primary course. The Second and Third Readers will also be completed within the higher primary course. Extended readings are also made from readers supplementary to the regular readers in all primary classes, as well also as in all higher classes to the end of the grammar school course.

Pupils are greatly aided in their endeavors to express the thoughts of others in reading lessons if they are required to express thoughts by reading language which they have themselves written. Hence there is great advantage in having pupils able to write as early as possible. There are also other advantages derived from teaching penmanship in connection with reading.

At first, pupils imitate the teacher's writings (upon the board) of those words which they have had as reading lessons; and it is surprising how soon some of them acquire the ability to write quite legibly. They are also early taught to write their own names and other special words. Individual letters are also given, in suitably

graded lessons, for such practice and drill as is designed to cause pupils to acquire perfection of form.

Spelling is taught during the first year by sound, as an aid in teaching reading. In the second year spelling is taught by letter, words being selected from those in common use by young children and from reading lessons. The spelling book is introduced in the third (or last) year of the primary school, and its use is continued in all classes to the end of the grammar school course.

Language is undoubtedly the most important of all the subjects taught in the schools, for it includes reading, writing, spelling, and, in short, all written and spoken speech. The grammar of a language is the science which treats of its principles, a knowledge of which will furnish one with a criterion for determining the correctness of his use of language. A good use of language, however, is not best taught by the study of grammar, but by imitation and by drill in properly graded exercises. The study of grammar comes much later, begun in the seventh year of our schools; and a knowledge of it is afforded in order that its mastery may serve the place of a critic teacher all through life.

Language instruction in the primary schools has for its chief objects (1) freedom in talking; (2) correctness in talking, involving a knowledge of common forms of speech and the avoidance of common errors; (3) the enlargement of the child's vocabulary, and the training which teaches him to connect thought and speech.

Language exercises at the outset are of the simplest kind, not designed to make the transition from home to school abrupt or startling. The tendency to utter incomplete sentences is gradually overcome, by requiring pupils fully to express what they mean. Written exercises, in which pupils are expected to express their ideas of what they have been previously taught, greatly aid in securing a complete expression of thought; and, in due time, much and varied written work is performed, including writing from dictation and letter writing, in the higher primary classes.

Arithmetic is commenced by application of the well-known Grube system of teaching number, which involves almost simultaneous instruction in the four fundamental principles of arithmetic. The first year's instruction is chiefly afforded and illustrated by use of objects in the hands of the children, who stand around a table for convenience in handling the material. Number cards are then used, which contain simple problems in ever varying form and are designed to afford proper practice in early operations with number. The Elementary Arithmetic is commenced by the highest class of the primary grade. This book affords in another form an admirable review of, and some advancement upon, the work in arithmetic previously done.

Oral instruction is also afforded to all the primary classes (of a nature and to an extent adapted to the degree of pupils' advancement) upon such subjects as plant and animal life, color, the human body,

its proper care, and the injurious effects of stimulants and narcotics. The cardinal points of the compass, size, place, direction, and distance are also taught in the higher primary classes, preparatory to the study of geography in the middle school. Special outlines have been furnished teachers for guidance in affording instruction in Bird Life and Nature Studies.

Oral instruction is given throughout all our grades below the High school, but to a decreasing extent in the higher classes, because the older pupils should be taught to obtain knowledge from books.

Music and drawing are begun in the lower primary grades, and both subjects are well taught throughout all our schools, for the teaching of them is directed and closely supervised by special and highly efficient instructors.

Much might be said of the utility, in various ways, of the instruction afforded in our schools through oral lessons and the teaching of music and drawing, but the aesthetic culture thus afforded is every way paramount and of incalculable worth. It reaches deeply into the souls of pupils and there effects a humanizing, if not a divine, influence that will ever abide for the good not only of the recipients themselves but also of all with whom they may have to do.

THE WORK OF THE MIDDLE SCHOOLS.

Each grade of the two middle schools, known as lower and higher, covers a period of one year. The work of the middle schools is to advance pupils in a knowledge of all the subjects taught in the primary schools, with geography added, and the more advanced knowledge expected is acquired by greater study of the printed page, and with less dependence upon oral instruction, though this is continued.

In the lower middle school, the Advanced Third Reader is read. A greater number of applied problems in arithmetic are solved, simple fractions and mixed numbers being also taught. In language, the character of sentences and their principal parts are distinguished, the uses of capital letters, abbreviations, dates, margins, hyphens, contractions, and punctuation being taught by well graded exercises in the writing of letters, stories, descriptions, and writings at dictation. Frye's Primary Geography is begun, and more than half completed. This book is a wide and desirable departure from the former way of presenting the subject. It first properly treats largely of the physical features of the earth, and through numerous pictures, true to nature, the author makes the meaning of his book clear to children of middle-school age. In addition to the natural features of the continents, there is studied in this grade the geography of the United States in general and of New England in particular. Parents will do well to examine this book, which may be borrowed of the teacher, through their children.

In the higher middle school, easy fourth readers are read. The Elementary Arithmetic is completed, so, also, a hundred pages of the

Second Book, the subjects taught being United States money, accounts and bills, easy fractions and denominate numbers. In language, previous topics are amplified, common and proper names exemplified, and plurals, simple verb forms, adjectives, quotations, reproductions, stories from outlines and geographical subjects are also treated. The Primary Geography is completed and Frye's Complete Geography begun. In the Primary Geography, used by the lower class of this grade, the peoples of the earth and plant and animal life are studied; also the general geography of all the continents. The Complete Geography is commenced by the higher class of the higher middle school; and while most of its first topics are similar to those usually found in the first part of a large geography, their treatment by Frye is quite different,—particularly because of the emphasis given physical features and the forcible presentation of them by the aid of an abundance of pictures and relief maps of superior quality. The author's treatment of geography has wrought a great and desirable change in the study of this subject. Nature is so effectually brought to the attention of the pupil that he becomes a close observer of her varied forms, and his study of geography from then onward is to a limited degree after the manner of that of the original investigator; and it is a great gain to pupils so early to have acquired such a habit in any study, for it connects language and thought as no other experience can, and will awaken an interest in the study of other subjects greatly to the advantage of the learner.

THE WORK OF THE GRAMMAR SCHOOLS.

Instruction begun in the primary and middle schools in reading, writing, spelling, nature topics (assigned for oral instruction), music, drawing, arithmetic, language, and geography are continued throughout the grammar-school course of four years. To these subjects are added the history of the United States and in the last two years of the course, manual training, book-keeping, and civil government; but all of the foregoing studies are not taken during every term,—it being so arranged that individual pupils have but three main subjects of study at one time.

The work of the grammar schools is apportioned to four distinct grades of school, known as the first, second, third, and fourth divisions, each division having two classes and covering a year's work.

The so-called "Fourth Division" is the lowest of the grammar-school grades, and its main studies are arithmetic, language, and geography. The arithmetical topics of the fourth-division grade are factors, common fractions, and decimal fractions. In language, the varied written exercises of the middle schools are much extended and made the basis of literary criticism. A simple treatment of the forms and variations of the different parts of speech is also afforded. The geographical topics of this grade are the leading physical features of North and South America, Europe, Asia, Africa, and Australia; also, briefly, the races of men and their religions and governments, plant and animal

life, commerce, railroads, and a review of the geography of the United States and the other countries of North America.

The arithmetical topics of the Third Division are compound numbers, mensuration of surfaces and solids, and percentage. In language, Part I of Metcalf's English Grammar is taken, and this is supplemented by a continuation of written exercises designed to afford further instruction in arrangement of margins, paragraphing, punctuation; in the use of capital letters, abbreviations, contractions, quotations, marks of correction; and in writing letters, formal notes, descriptions, the reproduction of stories, narrations, biographical sketches, also sketches upon other subjects.—geographical, historical, etc. Frye's Complete Geography is finished by the lower class of this grade, and the topics are the geography of the countries of all the continents except those of North America. This class also reviews the essentials of the entire book. The higher class begins the history of the United States. It studies the development of the thirteen original English colonies,—which has chiefly to do with their settlement, civilization, and the so-called Intercolonial Wars.

The arithmetic topics of the Second Division are interest (with its variously applied problems), bank discount, proportion, partnership, involution, evolution, and square root. In language, about fifty pages of Part II of Metcalf's English Grammar are taken, supplemented by written exercises similar in nature to those required in the Third Division, though somewhat more complex. The history of the United States is completed in this grade, the following topics being studied: The American Revolution, the development of the states (or the presidential administrations till 1861), the Civil War, reconstruction, subsequent administrations, as well as passing events.

The mathematical topics indicated in the course of study for the First Division are, during the fall term, mensuration (or practical geometry) as found in the latter part of the arithmetic, and algebra is proposed for the winter and spring terms. Book-keeping is taught during the last half of the school year. In language, Metcalf's Grammar is continued, completed, and the entire book reviewed. Civil government is taught during the first half of the school year, and during the last half of it geography (finished in the third division, two years previously) is wholly reviewed.

I have now presented, in brief, the subjects or topics of study required to be taught in all the different grades of school below the High school. This has been done for the purpose of informing all interested persons, somewhat definitely, in regard to the work of the schools; and in the hope of inducing parents, and citizens in general, much more numerous to visit the schools and witness the manner and methods of presenting the subjects taught, and the kind of treatment accorded pupils. From the outlines given, intending visitors are directed to the grades of school in which they may find those topics taught that most interest them.

The human body is lifeless without the inward breathing spirit; so is a course of study likewise dead matter till animated by the spirit intended to give it life,—the teacher. It therefore follows that no due estimate of the value of the work of the schools can be made by any one who does not somewhat frequently visit them, and therein personally observe how their work is performed.

Frequent visitation of the schools would be welcomed by the teachers and result in much profit, for both pupils and teachers would thereby be greatly encouraged and inspired to higher attainments; while visitors of schools which are skillfully managed would be well entertained and have revealed to them much merit that is generally unknown, because discoverable only by personal inspection. Indeed, it may be safely said that pupils become successful men and women through the influence of the schools more because of the attendant training, instruction, and inspiration afforded by a good teacher, than because of the mere mastery of the book knowledge indicated in the course of study. Parents should therefore inspect the work of the teacher, in order that from an understanding of her spirit and methods they may best know how to co-operate for the good of their own children.

It will not be practicable to present the topics of study taken by each of the high-school classes; so I submit the bare outline of the general subjects as presented in the revised form of the high-school course of study, which will become operative the last day of next month (January 31, 1900).

MANCHESTER, N. H., HIGH-SCHOOL COURSE OF STUDY.

Fourth (or Beginner's) Class.

- I. English (4).
- II. Algebra (5).
- III. Physics (5).
- IV. General History (3) and Composition (2).
- V. Latin (5).
- VI. Declamation.
- VII. Drawing.
- VIII. Music.

Scholars of this class must take I, II, III, and also either IV or V. They may also take any or all of VI, VII, VIII.

Third Class.

- I. English (4).
- II. Geometry (5).
- III. Arithmetic (5), first semester; Book-keeping (5), second semester.
- IV. Physiology, or Zoölogy (5), first semester; Botany (5), second semester.
- V. English History (4).
- VI. Latin (5).

- VII. French (5), German (5), Greek (5). Any one, only.
- VIII. Declamation.
- IX. Drawing.
- X. Music.

Scholars of this class must take I, and either II or III,* and also any two of IV, V, VI, and VII. They may also take any or all of VIII, IX, X.

Second Class.

- I. English (4).
- II. Solid Geometry (5), first semester; Trigonometry (5), second semester.
- III. Book-keeping (5), first semester; Typewriting and Stenography (5), second semester.
- IV. Chemistry (5).
- V. American History and Government (3) and Political Economy (2).
- VI. Latin (5).
- VII. French (5), German (5), Greek (5). Any two, only.
- VIII. Grecian History (3), English (2). For college division.
- IX. Advanced Physics (5).
- X. Declamation.
- XI. Music.

Scholars of this class must take I, and also any three of II, III, IV, V, VI, VII, VIII, and IX. They may also take either or both of X and XI.

First Class.

- I. Rhetoric and English Literature (5).
- II. Algebra, reviewed (5), first semester; Geometry, reviewed (5), second semester.
- III. Typewriting and Stenography (5).
- IV. Astronomy (5), first semester; Physical Geography with Elements of Geology (5), second semester.
- V. Latin (5).
- VI. French (5), German (5), Greek (5). Any two, only.
- VII. Roman History (3), English (2). For college division.
- VIII. English Grammar, reviewed (5), first semester.
- IX. Declamation.
- X. Music.

Scholars of this class must take I, and also any three of II, III, IV, V, VI, VII, and VIII. They may also take either or both of IX and X.

N. B.—After June, 1900, the high-school diploma will be awarded only for satisfactory completion of the full course as required for all the classes.

It will be observed that the new high-school course of study is not sub-divided into different divisions, as heretofore, and that there is

* If both II and III be taken, only one of IV, V, VI, and VII need be taken.

a much wider choice of optional studies, typewriting, stenography, and German being also added to the list of subjects taught. Parents should be able to select, from the studies offered, such a course of instruction for their children as will well meet their several needs; for nearly every subject usually taught in high schools is presented, and the larger portion of these subjects is made elective. Pupils who design to prepare for college should, however, consult the principal of the school with reference to what line of studies had best be taken as preparation for the particular college which each designs to attend. It is likely that when this course is printed for the use of pupils it will be accompanied by explanations designed to aid them in their effort to make a wise selection of studies.

Under the new course of study, the least period of time allotted any subject is half a year, instead of a term, as heretofore. Promotions from class to class should in future be made in the High school semi-annually, as they are in all our other schools.

There is occasionally a pupil in the High school who, for days, and sometimes weeks at a time, is not able to make any kind of a recitation in one or more of his studies. He makes only the invariable reply, "I don't know," to all of his teacher's questions. Such negligence, permitted, is thoroughly demoralizing not only to the participant but quite likely also to a few of those witnessing the misconduct, whether performed in a spirit of meekness or of bravado to give it the appearance of smartness. If promotion in the High school from class to class continues to be based upon a standing of at least sixty per cent in every study, and promotions be made as often as every six months, there would be much less likelihood of contagion from such cases of misconduct as I have cited. But the cases themselves should be cured, and to this end I recommend that the high-school teachers be empowered to require any pupil esteemed unduly negligent about the preparation of a lesson, or its recitation, to report himself to his teacher at the High schoolhouse for the proper recitation of said lesson, as a condition of his continuance in the class, at such time in the afternoon as may be determined by the principal of the school. This plan would effectually reform, or eliminate from our High school, the few who are there only because their ambition is seemingly to live for the purpose of mere existence rather than to serve any good purpose.

High-school teachers should also be empowered to require the afternoon presence in special session of pupils who refuse properly to utilize their study periods, and then and there they should be required to make good their loss of time in school hours; likewise, also, should pupils unnecessarily tardy be required to make good their loss of time from school. In short, if the high-school teachers shall be empowered to require the afternoon special session for the correction of all such abuses as make it justifiable for teachers of all our other grades to require pupils to remain after school, there would result a greater improvement in the condition of our High school than anything else could produce of which I now think.

There is another service which the high-school teachers can perform for their pupils, which would, I'm sure, prove of great general advantage. It is that each of these teachers be at the schoolhouse regularly one afternoon every week, from 3 till 4 o'clock, for the purpose of aiding pupils who need assistance about their lessons and would gladly go for it if it were understood they could feel free to do so. There are fifteen teachers in the High school; and if the board should require that only three of them be present at the same time, as above specified, pupils could apply any afternoon of a school day for needed assistance and get it from some one of the three teachers present, if, with the end in view, they be grouped in accordance with their ability to meet expected conditions. I do not think teachers would regard such a requirement a hardship, for doubtless they are nearly all there about as often as once a week and not far from the hour specified, though not regularly, nor in accordance with any systematized plan that has been open and helpful to all alike. Teachers should, indeed, cheerfully meet such a requirement, for they would be compensated by more satisfactory results from pupils and the generally improved condition of the school.

It should not be inferred from the foregoing that any new or unusual laxity has occurred in the High school during the past school year, for it is not so. The difficulty in question began with the inauguration of the one session plan. Then that class of pupils who are not inclined to make the most of their opportunities began to take advantage of conditions which practically debarred teachers from detaining pupils after school to make up lesson deficiencies. For this reason, the neglect properly to prepare lessons soon became more extended. Such neglect, on account of its baneful influence, though the fault of only a few pupils, is a great evil in any school and especially when deliberately intended. Nearly all the disturbances occurring in the High school in recent years have originated with pupils in attendance upon the school for other purposes than a proper discharge of duty. Teachers have contended with the evil as best they could, under existing conditions; and now, for somewhat more than a year, they have so far held the wrongly inclined in check that the school has had a period of quiet and successful effort. But the accomplishment has been at the sacrifice of nerve power that would have otherwise enabled the teachers to do much more and better for the school. Hence my recommendation that teachers be not longer left single-handed to cope with an evil and influence so injurious as that effected by pupils of the high-school grade whose main purpose apparently is to remain in school to escape work elsewhere, and do as little as possible of it in school.

THE TRAINING SCHOOL FOR TEACHERS.

In former reports I have set forth the advantages derived from the training afforded by this school, in the way of furnishing substitute teachers fully competent to carry on the work of regular teachers

temporarily absent, instances of which are of almost daily occurrence; and I have also repeatedly expressed the opinion, which I still entertain, that the average graduates of the Training school elected to permanent teacherships in our schools have proven themselves more satisfactory and better teachers than the average of those elsewhere obtained. At the present time three fourths of the ladies in our corps of teachers are graduates of our Training school for teachers, and I do not hesitate to say that were they all to withdraw the vacancies could not be filled by their equals at the salaries paid.

Since the organization of this school, in 1869, several changes have been made for its betterment, and, as a consequence, the school, years ago, became quite popular and so many candidates sought admission that its classes were enlarged. Until recently, however, graduates have generally obtained teacherships without much delay, but now there are twelve without permanent positions, some of these having been graduated two years ago. The training-school committee, now seeing the supply greater than the demand, deem the time opportune for effecting another improvement by adding five months to the school's course of study and training, in future graduating a class annually instead of every six months. I heartily approve the proposed plan, for it would afford graduates a superior preparation for teaching, and be likely to keep the supply about equal to the demand.

Being pressed for time, the principal of the Training school has been obliged to unite classes that should have been kept apart, one being five months ahead of the other and capable of doing more work, were the opportunity afforded. Moreover, the time allotted some subjects has been much too little, and far better results could be attained by the proposed two years' course.

Miss Caroline E. Wing has been principal of the Training school twelve years and one term. She has staid faithfully by the school, declining now and then an offer (one this year) to take charge of a similar school elsewhere at an increase of salary and under other tempting conditions, but her abiding interest in our school, through satisfaction of improved conditions and faith in its future, has caused her yearly to renew her efforts for its betterment, and the results of the past year again attest her success. Miss Wing greatly desires the adoption of a longer course of study, that our school may in this respect have the advantage enjoyed by similar schools in other places.

MANUAL TRAINING SCHOOL.

This school is no longer a new feature in our school system. It was organized in 1893, and it has annually increased in numbers and popularity,—deservedly, too, for it affords a training of as much importance in its entirety as any one of our public schools. This is a strong statement, but I believe it true, for reasons set forth in my annual report of 1898 and former reports.

The Manual Training school has been much improved during the year.

There have been added to its equipment five wood-turning lathes, their accompanying shafting, and a three-horse power electrical motor. The city purchased but one of the five lathes. The others and all the shafting were furnished either from funds donated the board or from material afforded by friends of the school.

The work benches have been brought from the Varney and Hallsville schools to the Lowell-street schoolhouse, corner of Lowell and Chestnut streets, where all manual training instruction is now afforded, in order that all the pupils may have use of the lathes. Boys in the higher classes of our nine grammar schools attend the Manual Training school at their option; so, also, an afternoon class from the High school. The enrollment of pupils is larger than ever before; and so large that pupils from the smaller schools have to be united in a way that will afford an average of about twenty-four pupils each lesson period, in order to accommodate all who elect this course. There are ten lessons a week, a half day being devoted to each class. The instruction afforded is almost wholly individual and in the form of drawing, bench work, and lathe turning. The instructor's time is fully utilized and often voluntarily much extended beyond required limits.

The school is in need of drawing tables, a small engine lathe for working forms in iron,—in order that further instruction may be afforded in the fundamentals of mechanics,—also ordinary supplies and material for pupils' use.

The committee estimate that for the proper conduct of this school during the coming year there will be needed an appropriation of \$600.

While the boys are receiving instruction at the Manual Training school the girls belonging to their classes (in other studies) have been instructed to some extent in sewing, by the masters' assistants, and the results have been very creditable to both teachers and pupils; but for the lack of material, instruction in sewing has been irregular, too limited, and not attempted in some schools. There seems to be no good reason why the girls in question should not have sewing material furnished them by the city, to a reasonable extent, for time is at their disposal for lessons in sewing and the instruction may be afforded without additional cost. Moreover, instruction in sewing is highly important and most greatly needed by the very ones who can least afford to purchase lesson material for themselves, and it is because of this that more extended instruction in sewing has not been afforded. I therefore recommend an appropriation of \$250 for the purchase of material for the use of the more than two hundred girls who would receive instruction in sewing if material shall be furnished.

IN GENERAL.

From what has already been said, it may be rightfully inferred that I regard our public schools, as a whole, in very good condition. Most of them, I am happy to say, may be properly designated as either good or excellent, others fair, and but a few as ordinary or poor. By which-

ever one of these terms, however, it is right to characterize the work and behavior of any one of the one hundred and twenty-three schools, by that same term is it right to characterize the efficiency of the teacher of that particular school, for "as is the teacher so is the school," however trite the saying; and because the statement will forever remain true, all school authorities must know the one and only thing to be done in order to produce a school of a given type.

The chairman of the committee on Training School for Teachers, and likewise the chairman of the committee on evening schools, each deserve special mention for unusual frequency of visits to respective schools, and consequent favorable results therefrom.

DONATION.*

It may be well here to indicate what has thus far been done with the special fund donated the school board and by said board placed at the disposal of a special committee for expenditure. Amount of donation to date, \$625. Expended for two lathes and their equipment, furnished the Manual Training school, \$140.82; for a barometer, a three-horse power electrical motor, and a machine for the development of statical electricity, furnished the high-school physical laboratory, \$158.97; for six solar lanterns and three hundred and sixty slides, furnished the six larger grammar schools, \$195.95; (Principals C. W. Bickford and W. H. Huse are entitled to many thanks for voluntary personal services rendered in the production of the lanterns and slides, which greatly reduced their cost); for a rotary neostyle furnished the office of superintendent of schools, \$60. Total, \$555.74.

REPAIRS OF SCHOOLHOUSES.

The committee on repairs has utilized its appropriation as follows:

At the High school, the furniture was revarnished; steam heat put into the teachers' toilet rooms, to keep the water pipes from freezing; and "kick plates" placed upon the doors.

At the Franklin school, the annex was found in a very unsanitary condition. It was practically rebuilt and provided with new water-closets, the old ones being entirely worthless. The boiler firebox was rebuilt and steam heat carried to the annex, necessitating extensive repairs on the heating apparatus.

At the Lincoln school, the roof was extensively repaired; clock weights were rearranged; more steam heat was provided one of the rooms; the woodwork painted; and the concrete walks were repaired.

At the Ash-street school, the furniture was repaired and revarnished; the basement walls and ceilings were whitewashed.

At the Webster school, furniture was scraped and varnished; woodwork in basement painted; and extensive repairs were made upon the ceiling which was torn down by fall of the tower clock weights. These were put in another place for future safety. The change involved a

* Donation by Supt. Buck of \$125 per quarter, in commemoration of and during his twelfth biennial term of service, 1898 - 1900, amounting in all to \$1,000.

replacement of the sinks, and considerable expense for procurement of required ventilation therefor.

At the Varney school, the furniture was repaired and varnished; furnaces and electric bells were repaired.

At the Hallsville school, the walls of all rooms on the first floor were tinted with oil colors; window sash repaired. Internally the house is very attractive, but the outside woodwork should be repainted.

At the Bakersville school, drinking water was carried to the third floor; a fence built on the north side of the lot; outside woodwork of the entire schoolhouse repainted, and the roof extensively repaired.

On the third floor of this house are two schools, which have been there several years, and they are likely to be continued for a long time to come. There is but a single stairway to these schools, and a narrow one at that. In case of fire the danger would be great, and the loss of life imminent. I therefore recommend that a suitable fire escape be provided as soon as it can be procured.

At the Rimmon school, the furniture was revarnished; walls of one room were tinted; outside doors painted; doorsteps and concrete walks repaired.

At the Wilson school, all the schoolroom walls were tinted; furnaces and electric bells repaired.

At the Straw school, walls were tinted; ceiling and basements whitewashed; furniture revarnished. The hallway walls and ceilings of this house need improving.

At the Training school, a new steam-heating boiler was furnished; basements were whitewashed; and furniture revarnished.

At the Spring-street school, the boiler was repaired, and the furniture revarnished.

At the Main-street school, extensive repairs were made upon the roof; a new steam-heating boiler was provided; portions of basements were replastered; south-side yard was graded; and the concrete walks were repaired.

At the Pearl-street school, slate roofs were repaired and snow guards furnished; extended repairs were made upon one of the furnaces; and the furniture revarnished.

At the Parker school, the basement plastering was repaired and whitewashed; connections for electric appliances were also made.

At the Lowell-street school, considerable alterations in rooms were made for accommodation of the Manual Training school; the walls and ceilings were also whitewashed. The fence on the east side of the lot is much out of repair, the committee failing to arrange terms with the abutter for its repair.

At the Amoskeag school, an attic floor was laid; hookeases were repaired; sill cocks provided; and new grate bars furnished the boiler.

At Goffe's Falls school, the ceilings were repaired and whitewashed.

At the Stark District school, old-fashioned long desks were converted into single ones and revarnished; a new fence was also built on north

side of the lot. The well is worthless, and a new one should be provided.

At the Harvey District school, the walls and ceiling were white-washed. The well should be redug or a new one provided, the present one yielding only surface water.

At the Youngsville school, the outhouse was repaired and the ceiling of the schoolroom whitewashed. Other minor repairs were also made.

At the Webster's Mills school, rearrangement was made of the furniture, better to accommodate children of varying height.

At the Mosquito Pond school, the outside of the schoolhouse was repainted, and a few minor repairs were also made.

The foregoing but briefly outlines the principal repairs made at the various schoolhouses. More or less minor repairs have been made at each house, which in the aggregate have involved considerable expense. It is generally recognized that the recent movement toward ornamenting the walls of schoolrooms is eminently proper, on account of the educative value; and in order to encourage and facilitate the movement without necessitating injury to the walls of the schoolrooms, the repairs committee have quite properly furnished picture moldings wherever applied for,—the committee having suggested that teachers make application whenever moldings would be needed to prevent the defacement of schoolroom walls.

As one knowing to the personal attention and expert services devoted (at a sacrifice of much valuable time) by the chairman of the committee having in charge the direction and supervision of repairs of schoolhouses, I deem it quite proper to make mention of the fact that the city has been saved many dollars by reason of said chairman's several years' gift of his services while annually acting in the capacity named; and it may also be said that the generally good condition of our schoolhouses is largely due to his special ability in this direction, for it has frequently offset in a measure the too small appropriation for repairs.

The committee estimate that for the coming year the appropriation for the general repair of schoolhouses should be \$6,000, and that there should also be a special appropriation sufficient to effect necessary arrangements for the proper ventilation of the Lincoln, Franklin, and Ash-street schoolhouses.

CONCLUSION.

In conclusion, I again embrace this opportunity to express my gratitude to the members of the school board, the teachers of our public schools, as well as numerous citizens, for expressions of kindly consideration, direct aid, and timely suggestions.

Respectfully submitted.

WILLIAM E. BUCK,

Superintendent.

DECEMBER 29, 1899.

APPENDIX.

- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. ATTENDANCE TABLES.
- VI. TRUANCY.
- VII. FINANCE.
- VIII. SCHOOL YEAR, 1898-1899.
- IX. HIGH SCHOOL GRADUATING CLASS.
- X. WINNERS OF CLARKE PRIZES.
- XI. ORGANIZATION OF COMMITTEES, 1899-1900.
- XII. LIST OF TEACHERS, 1900.
- XIII. SCHOOL YEAR, 1899-1900.

APPENDIX.

STATISTICS.

I.—Population.

Population of the city by last census, 1890..... 43,983
Legal school age, 5 to 21.

II.—Schoolhouses.

Number of schoolhouses in use.....	24
Number of schoolhouses not in use.....	0
Number of school rooms used for day schools.....	*124
Number of rooms used for High-school classes.....	12
Number of rooms used for Grammar schools.....	32
Number of rooms used for Middle schools.....	28
Number of rooms used for Primary schools.....	44
Number of rooms used for Partially Graded schools.....	1
Number of rooms used for Ungraded schools.....	5
Number of rooms used for Manual Training schools.....	1

III.—Schools.

(All for both sexes.)

Number of High school buildings.....	1
Number of combined Grammar and lower grade (Middle and Primary) schools	12
Number of combined Middle and Primary schools.....	5
Number of schools all Primary grade.....	1
Number of Ungraded schools.....	5

IV.—Teachers.

Male teachers in the High school.....	4
Female teachers in the High school.....	8
Female teachers in the Training school.....	2
Male teachers in the Grammar schools.....	7

* An average of 123 for the entire year.

Female teachers in the Grammar schools.....	(a)31
Female teachers in the Middle schools.....	(b)27
Female teachers in the Primary schools.....	(b)41
Male teachers in the Partially Graded schools.....	1
Female teachers in the Ungraded schools.....	5
Male teachers in Manual Training school.....	1
Special teachers	3
Average number of male teachers.....	(c)15
Average number of female teachers.....	(c)115
Total average number of teachers in day schools.....	130
Male teachers in the evening schools.....	8
Female teachers in the evening schools.....	6
Average number of male teachers in the evening schools.....	6
Average number of female teachers in the evening schools.....	5
Male teachers in the evening Drawing schools.....	2
Average number of male teachers in the evening Drawing schools	2

(a) Six of the 31 are masters' assistants.

(b) One of the 28 middle schools and three of the 44 primaries were in the Training school. They had no regular teachers, being taught by sub-teachers under the direction of the principal and her assistant.

(c) Including special teachers.

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1898-1899.

SCHOOLS.	Whole number enrolled.	* Whole number belonging.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
		Boys, Girls.					
		Boys.	Girls.				
GRAMMAR SCHOOLS.							
High School.....	449	169	280	409	383	93.6	Albert Somes, Master. G. I. Hopkins, sub-master. Harry N. McLaren. Hiram A. Stearns. Nellie Pickering. Florence M. Locke. Theresa B. Stanton. Mary J. Wellington. Sara Hunt. Annie W. Colby. Mary H. Dowd. Helen S. Smith.
Franklin-street, First Division.....	35	11	23	30	28	93.3	{ Isaac Husc. Jr., Master. Alice C. Taggart.
" Second ".....	51	25	26	38	35	92.1	Carrie E. Holt.
" Third ".....	39	17	18	27	24	88.9	{ Assistants. Carrie E. Holt.
" Fourth ".....	55	22	26	38	34	89.5	Nellie C. Parker.
Franklin-street totals.....	.....	75	93	133	121	91.0	
Lincoln-street, First Division.....	49	21	27	45	42	93.3	{ Fred L. V. Spaulding, Master. Barbara B. Joy, 1 term. Annie W. Patten, 2 terms. Belle R. Daniels. Mabel J. Brickett. Mary F. Barnes.
" Second ".....	50	23	26	44	41	93.2	{ Assistants. Mabel J. Brickett.
" Third ".....	54	28	25	46	42	91.3	
" Fourth ".....	53	23	26	45	41	91.1	
Lincoln-street totals.....	.....	95	104	180	166	92.2	
Ash-street, First Division.....	50	23	26	42	39	92.8	{ Charles W. Bickford, Master. Mabel R. Brown. Amelia L. Graupner. Emma L. McLaren. Ellen E. Connor.
" Second ".....	50	23	26	42	38	90.5	{ Assistants. Amelia L. McLaren.
" Third ".....	56	17	32	41	38	92.7	
" Fourth ".....	61	28	33	44	40	90.9	
Ash-street totals.....	.....	91	117	169	155	91.8	

Varney, First Division.....	60	13	23	47	46	97.9	{ George Winch, Master. Rosabelle M. Franklin, E. Maria Diekey. } Assistants. Ellen E. Mekean. } Millie S. Morse.
" Second "	72	25	30	40	38	95.0	
" Third "	65	11	27	29	37	94.9	
" Fourth "	81	28	27	44	41	93.2	
Varney school totals.....		77	107	170	162	93.3	
Webster-street, First Division	47	24	22	37	35	94.6	{ John Gault, Master. Helen E. Frost. Luna A. Whitlock. } Assistants. Alta C. Willand. } Eva F. Tuson.
" Second "	45	19	18	36	32	88.9	
" Third "	39	25	12	34	32	94.1	
" Fourth "	55	20	18	42	39	92.9	
Webster-street totals		88	70	149	138	92.6	
Bakersville, First and Second Divisions	30	13	17	20	19	95.0	Lizzie A. Burns.
" Third and Fourth	39	16	15	26	24	92.3	Lella A. Brooks.
Bakersville totals.....		29	32	46	43	93.5	
Hallsville, First and Second Divisions	45	15	18	30	27	90.0	{ William H. Huse, Master. Ella F. Barker. Olive A. Rowe. } Assistants. Katie E. Batchelder.
" Third Division	51	18	21	33	29	87.9	
" Fourth "	56	26	24	36	31	86.1	
Hallsville totals		59	63	99	87	87.9	
Rimmon, First, Second, and Third Divisions	48	16	24	29	27	93.1	Louis H. Bailey, Master.
" Fourth Division.....	26	10	8	15	13	86.7	Lillian F. Crowther, Assistant.
Rimmon school totals		26	32	44	40	90.9	
Wilson, First and Second Divisions	29	14	14	26	22	84.6	{ Mary J. Coreoran, 1 term. Barbara B. Joy, 2 terms. Hellen Morison.
" Third and Fourth "	42	24	16	34	31	91.2	
Wilson school totals		38	30	60	53	88.3	
Parker, Third and Fourth Divisions.....	35	12	14	23	21	91.3	Mary E. Moulton.
Straw, Third and Fourth Divisions	54	18	26	40	37	92.5	Lizzie P. Gove.
Amoskeag, Grammar Divisions	36	15	17	28	25	88.1	Mary A. Buzzell.
GRAMMAR SCHOOL TOTALS		623	705	1,141	1,048	91.8	

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

SCHOOLS.		*Whole number belonging.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
Whole number enrolled.	Boys.	Girls.					
MIDDLE SCHOOLS.							
Franklin-street Higher	60	19	20	37	33	89.2	Alice M. Lamprey.
" Lower	61	19	18	34	32	94.1	Amy K. Northrup.
Lincoln-street Higher	59	30	20	45	41	91.1	{ Mabelle E. Porter, 1 term. Etta L. Stearns, 2 terms.
" Lower	61	22	35	51	47	92.1	Bessie E. Dodge.
Ash-street, Higher	65	18	23	42	38	90.5	Emma J. Cooper.
" Lower	72	17	18	43	38	88.4	Kittie J. Ferren.
Varney, Higher	70	33	22	44	41	95.4	Mary J. Walsh.
" Lower	69	17	23	45	42	93.3	Marcia M. Moore.
Webster-street, Higher	53	18	18	34	31	92.2	Edith L. Hammond.
" Lower	60	24	18	39	36	92.3	Jean Gillan.
Bakersville, Higher	43	14	18	27	24	88.9	Cora M. Farmer.
" Lower	55	21	25	32	28	87.7	Augusta S. Downs.
Hallsville, Higher	54	23	23	37	34	91.9	Susie G. Woodman.
" Lower	59	28	24	40	32	80.0	Mary L. Ayer.
Rimmon, Mixed	73	31	22	45	41	91.1	Mary A. Seavey.
Wilson, Higher	48	11	18	35	33	94.3	Cora E. Gilford.
" Lower	76	29	16	46	41	89.1	Harriet H. Richardson.
Parker, Mixed	55	19	25	39	35	89.7	Lois M. Magoon.
Straw, Mixed	47	21	22	32	30	93.7	Gertrude H. Brooks.
Amoskeag, Mixed	36	13	11	24	20	83.3	Clydie M. Flanders.
Spring-street, Higher	48	18	14	24	22	91.7	Anabel Emerson.
" Lower	73	20	26	37	32	86.5	Fannie D. Moulton.
Merrimack-street, Lower	86	37	28	36	31	86.1	{ C. E. Wing, Principal. Grace A. Phillips, Assistant.
Main-street, Higher	60	12	21	31	29	93.5	Mary W. Mitchell.
" Lower	77	22	12	33	31	93.9	Gertrude A. Burns, 1 term.
" Lower	96	15	29	38	35	92.1	{ Mary A. Clement, 2 terms. Mary A. Clement, 1 term.
Pearl-street, Higher	44	25	7	34	31	91.2	Lottie M. Clement, 2 terms.
" Lower	63	11	17	37	33	89.2	Mary G. Tynan.
" Lower							Nellie M. Smith.
MIDDLE SCHOOL TOTALS	587	579	1,041		941	90.4	

PRIMARY SCHOOLS.

Franklin-street, Higher.....	57	23	16	31	29	93.5	Flora M. Walker.
" " Lower.....	73	30	37	41	36	87.8	Susie L. Dodge.
Lincoln-street, Higher.....	64	27	31	50	47	94.0	Theodora Richardson.
" " Lower.....	85	45	37	45	40	88.9	Hulda C. Grunpner.
" " Lower†.....	40	.....	.....	39	37	94.8	Mary S. Richardson, 1 term.
Ash-street, Higher.....	80	28	26	41	37	90.2	May F. Nutt.
" " Lower.....	74	35	30	38	32	84.2	Bertha A. Young.
Varney, Higher.....	68	25	16	39	36	92.3	Gertrude Adams.
" " Lower.....	73	38	30	39	35	89.7	* Effie M. Philbrook.
Webster-street, Higher.....	65	30	32	42	39	92.3	Mary E. Murphy.
" " Lower.....	76	37	38	46	43	93.5	Ora E. Goodwin.
Bakersville, Higher.....	47	19	19	33	29	88.9	S. Izetta Locke.
" " Lower.....	63	34	27	32	28	87.5	Mary L. Heath.
Hallsville, Higher.....	67	22	28	43	37	86.0	Bertha L. Kemp.
" " Lower.....	90	24	32	43	37	86.0	E. Alfreda Hall.
Rimmon, Higher.....	70	37	33	43	36	83.7	Annie R. Corson.
" " Lower.....	71	27	27	43	40	93.0	Hattie S. Tuttle.
Wilson, Higher.....	86	44	35	49	43	87.8	Blanche E. Hicken.
" " Lower.....	74	22	34	47	43	91.5	M. Clara Hawks.
" " Lower.....	76	22	26	46	42	91.3	Florence L. Abbott.
Parker, Higher.....	78	46	31	45	36	86.4	Bessie A. Cochran.
" " Lower.....	60	25	21	41	37	90.4	Delle E. Haines.
Straw, Higher.....	67	29	32	39	35	89.7	Blanche M. Folsom.
" " Mixed.....	75	25	25	44	39	88.6	Lettie M. Smith.
" " Lower.....	74	37	21	46	43	93.3	Nellie M. James.
Amoskeag, Mixed.....	80	43	33	43	36	83.7	Edith M. Stebbins.
Spring-street, Higher.....	61	30	27	34	29	86.3	Marion F. Partridge.
" " Mixed.....	73	25	24	35	31	88.6	Nellie I. Sanderson.
" " Lower.....	76	35	21	35	31	88.6	Lura B. Gage.
" " Lower.....	75	30	31	34	29	85.3	Lizabel Savory.
Merrimack-street, Higher.....	58	32	24	33	29	87.9	Florence Richardson.
" " Lower.....	97	39	25	41	35	85.3	C. E. Wing, Principal.
" " Lower.....	94	31	24	44	41	93.0	Grace A. Phillips, Assistant.
Main-street, Higher.....	47	60	47	47	41	87.0	Lottie M. Clement, 1 term.
" " Higher.....	43	25	18	40	38	95.0	N. Minnie Sturtevant.
" " Mixed.....	67	19	24	38	36	94.7	Hattie O. Willard.
" " Lower.....	65	28	14	38	36	94.7	Kate T. Clarke.
" " Lower.....	74	25	28	36	31	86.1	Mabel F. Robinson.
" " Lower.....	79	37	37	37	33	89.2	Ella Hope.
Pearl-street, Higher.....	81	38	10	43	38	88.4	Georgia M. Cheney.
" " Lower.....	78	34	40	38	32	84.2	

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.

† Temporary school during spring term, to relieve pressure in Lincoln primaries.

‡ In totals the Main-street Higher and Lowell-street Lower are reckoned as being equivalent to one school for entire year.

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

PRIMARY SCHOOLS.—Continued.		TEACHERS.				
Whole number enrolled	*Whole number belonging.	Average No. belonging.		Average daily attendance.	Per cent of daily attendance.	
		Boys.	Girls.			
Lowell-street Higher	76	28	27	32	30	93.7
“ Lower	39	29	13	33	29	87.9
“ Lower	75	44	27	31	26	83.9
Goffe's Falls Mixed	48	19	29	39	36	92.3
PRIMARY SCHOOL TOTALS	.....	1,382	1,227	1,634	1,507	88.9
PARTIALLY GRADED SCHOOL.						
Goffe's Falls	42	19	23	35	32	91.4
UNGRADED SCHOOLS.						
Stark District	23	9	6	12	11	91.7
Harvey District	34	18	15	23	19	81.7
Youngsville	43	23	20	24	20	83.3
Webster's Mills	18	5	11	13	11	84.6
Mosquito Pond	16	7	9	7	6	87.5
UNGRADED SCHOOL TOTALS	.....	62	61	79	67	84.8
Aggregate totals for 1890	.....	2,842	2,875	4,399	3,978	90.4
Aggregate totals for 1893	.....	2,912	2,890	4,425	4,070	92.0

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
 † In totals, the Main-street Higher and Lowell-street Lower are reckoned as being equivalent to one school for entire year.

DAY SCHOOLS.

Summary of attendance upon the several grades of public day schools for the year 1898-1899.

GRADES.	Whole number of different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
High	169	280	409	383	93.6
Grammar.....	623	705	1,141	1,048	91.8
Middle.....	587	579	1,041	941	90.4
Primary.....	1,382	1,227	1,694	1,507	88.9
Partially graded.....	19	23	35	32	91.4
Ungraded	62	61	79	67	84.8
Totals, 1899	2,842	2,875	4,399	3,978	90.4
Totals, 1898	2,912	2,890	4,425	4,070	92.0

EVENING SCHOOLS.

Summary of attendance upon the several grades of public evening schools for the year 1898-1899.

SCHOOLS.	Whole number of different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
Weston block.....	101	.....	62	50	80.6
Franklin street .....	.....	59	47	45	95.7
Rimmon	30	15	34	29	85.3
Drawing schools {	31	.....	23	18	78.3
	6	.....	5	4	80.0
Totals, 1899	168	74	171	146	85.4
Totals, 1898	240	97	232	195	84.0

Evening School Teachers.

Charles E. Cochran, principal at Weston block, for boys.

Assistants—A. W. Rowell, W. W. Forbes, L. H. Carpenter, and Annie B. Angell.

Honorie J. Crough, principal of Franklin-street school, for girls.

Assistants—Maggie Linen, Elizabeth F. Walsh, and Carlena A. Savory.

Arthur W. Morgan, principal of Rimmon school, for both sexes.

Assistants—William J. Mooar, Julius Hegewald, and Mary E. Paige.

Evening Drawing-School Teachers.

John M. Kendall and Henry W. Allen.

TRAINING SCHOOL.

Sub-teachers.	Graduated.	Sub-teachers.	Entered.
Annie B. Angell.	June, '98.	Bertha A. Allen.	Sept., '98.
Mary E. McLaren.	" "	Edna M. Barr.	" "
Grace A. Phillips.	" "	Bertha V. Franks.	" "
Ede B. Quimby.	" "	Lora E. Hill.	" "
Flora M. Walker.	" "	Gertrude Porter.	" "
Elizabeth F. Walsh.	" "	Amy E. Davison.	Feb., '99.
Florence H. Mooar.	Jan. 27, '99.	Lizzie M. Flanders.	" "
Ethel A. Nicholson.	" "	Edith A. Murphy.	" "
Sarah Price.	" "	Carlena A. Savory.	" "
Annie E. Walsh.	" "	Grace Whittemore.	" "
Mathel C. Henry.	June, '99.	Florence M. Francis.	Sept., '99.
Mae L. Lovejoy.	" "	Martha J. Kennedy.	" "
Kathryn McKeon.	" "	Anabelle Landers.	" "
Florence M. Ward.	" "	Maude E. Winegar.	" "

GENERAL SUMMARY.

The following table presents the main features of interest pertaining to the attendance upon the public schools for the last ten years. A similar report for twenty years may be found in report for 1896.

YEARS.	Average No. schools.	Average No. teachers employed.*	Enrolled in public day schools.	Average No. belonging.	Average daily attendance.	Percentage of daily attendance.	Average attendance evening schools.	Graduated in grammar schools.†	Passed grammar schools for high school.†	Entered high from grammar schools.†	Graduated from high school.	Average No. belonging to high school.
1890.....	77	76	3,814	2,795	2,536	90.7	141	121	114	83	33	184
1891.....	84	83	4,071	2,940	2,689	91.5	166	120	101	69	26	217
1892.....	89	89	4,298	3,130	2,837	90.6	174	116	103	67	42	226
1893.....	96‡	101	4,775	3,425	3,111	90.8	194	129	127	78	41	237
1894.....	101	107	4,975	3,662	3,336	91.1	153	175	162	112	63	251
1895.....	105	111	5,206	3,817	3,499	91.7	238	168	156	112	40	243
1896.....	108	115	5,382	3,999	3,651	91.3	140	138	130	119	43	270
1897.....	114	121	5,501	4,213	3,826	90.8	177	215	212	157	52	290
1898.....	121	128	5,802	4,425	4,070	92.0	195	200	191	145	51	378
1899.....	123	130	5,717	4,399	3,978	90.4	146	180	168	134	73	409

* Including special teachers, principals, assistants, etc.

† And the A class in suburban schools.

‡ Also a manual training school for one term, which is included in the number of schools the next five years.

VI.—WORK OF TRUANT OFFICER.

DATE.	Absentees reported from		No. voluntarily returned to		No. reported caused to attend		No. moved out of the city.	No. found sick and unable to attend.	No. otherwise unavoidably detained.	No. not found.
	City schools.	Parochial schools.	City schools.	Parochial schools.	City schools.	Parochial schools.				
September	82	33	7	9	54	24	3	9	9	..
October	87	56	12	10	52	31	3	15	15	5
November	98	53	13	11	49	14	5	43	16	..
December	35	20	3	5	19	1	2	8	17	..
January	84	37	13	11	42	19	7	16	13	..
February	70	40	7	14	22	24	5	21	17	..
March	93	38	21	10	49	19	5	14	11	2
April	100	39	18	10	43	18	7	15	27	1
May	96	42	11	7	54	17	2	13	31	3
June	75	40	10	18	50	15	4	12	6	..
Totals	820	398	115	105	434	182	43	166	162	11

DATE.	Truants not enrolled found on streets.	No. truants caused to attend		No. of school age found on streets in school hours.	No. of parents visited.	No. temporarily confined at the police station.	No. brought before the court.	No. of employment certificates granted.
		City schools.	Parochial schools.					
September	50	18	32	178	181	..	..	81
October	47	19	28	198	209	2	..	27
November	38	20	18	208	197	..	..	9
December	11	7	4	100	89	..	..	17
January	42	25	17	229	200	..	..	32
February	21	12	9	150	160	..	..	22
March	28	18	10	189	203	..	..	22
April	80	34	46	195	183	..	..	48
May	19	8	11	168	245	..	..	40
June	20	10	10	175	200	1	..	23
Totals	356	171	185	1,790	1,876	3	..	321

VII.—Finances.—1899.

ITEMS OF ACCOUNT.	Resources from appropriations and transfers.	Expenditures.
Salaries of teachers	\$89,440.81	\$89,440.81
Books and stationery	48.45	48.45
Free text-books and supplies.....	4,995.65	4,995.65
Furniture and supplies	1,436.29	1,436.29
Repairs.....	7,299.57	7,299.57
Care of rooms.....	6,380.25	6,380.25
Fuel	7,563.18	7,563.18
Printing and advertising	267.88	267.88
Contingent expenses.....	2,687.54	2,687.54
Evening common schools	1,181.65	1,181.65
Evening drawing schools.....	190.72	190.72
Manual training	600.00	600.00
Totals	\$122,091.99	\$122,091.99

COST OF CITY SCHOOLS.

Expenditures, as above specified..... \$122,091.99

Salaries.

Members of the school board.....	\$205.83
Clerk of the board.....	150.00
Superintendent of schools.....	2,300.00
Truant officer	750.00
Total	\$125,497.82

Receipts on Account of City Schools.

Literary fund	\$3,352.74
Tuition*	941.21
Sale of text-books	186.66
	<u>\$4,480.61</u>

Net amount raised by taxation for schools..... \$121,017.21

The city valuation for 1899 is \$31,491,784, and hence the rate of school tax for the year is \$121,017.21 divided by \$31,491,784, or .0034+. Last year the rate was .0034.

* School tax from Londonderry, Bedford, and Goffstown, included, \$136.56.

VIII.—School Year, 1898-1899.

Fall term of fourteen weeks opened September 12, 1898; closed December 16. Vacation of two weeks.

Winter term of twelve weeks opened January 2, 1899; closed March 24, 1899. Vacation of two weeks.

Spring term of eleven weeks opened April 10, 1899; closed June 23, 1899. Vacation of eleven weeks.

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

Average number of days the schools were taught, 175.

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

IX.—High School Graduation.

PROGRAM.

Salutatory. "Voices of the Woods".....	Mabel Darrah
Chorus. "Stars and Stripes Forever".....	John Philip Sousa
History	Elisabeth Riedell
Chorus. "Over the Dancing Sea".....	Roeckel-Veazi
Prophecy	Mae Eloise Osgood
Chorus. "In Praise of the Waltz".....	James M. McLaughlin
Oration. "Recent Developments in the East".....	Leopold Theodore Togus
Presentation	Emma Frances Jeffers
Cantata. "Violet in Fairyland"	Roeckel
Violet, Dorothy Witter Branch; fairy queen, Maude Evelyn Brown; fairy watchman, Addie Louise Forrest.	
*Valedictory.	Fred Wilson Cook
Award of Diplomas.....	Rev. Nathaniel L. Colby
Singing of the Ode.	

The Class of '99.

CLASSICAL COURSE.

Beatrice Bickford Bacon.	Edna Louise Driscoll.
Maude Evelyn Brown.	Cora Weltha Dustin.
Bertha Carpenter.	Grace Belle Fogg.
Bernice Estelle Chadwick.	Stella May Francis.
Ethel Dennison Chandler.	John Langdon Hadley.
Carrie Belle Clement.	Mary Elizabeth Hall.
Fred Wilson Cook.	Jennie Barnes Harmon.
Walter Andrew Crowell.	Ethel Elizabeth Harwood.
Mabel Blanche Carrier.	Emma Frances Jeffers.

* Excused.

Nina Ethel Johnson.
 Eva Gertrude Jones.
 Gertrude Lee.
 Lena Maud Mallard.
 Martha Belle Marden.
 Nellie Augusta Moulton.
 Mertie Ethel Newell.
 Mae Eloise Osgood.
 Florence Helen Patten.
 Florence Eva Pettigrew.

Fannie May Sanborn.
 Grace Mabel Sanborn.
 Ray Stearns.
 Edith Lacie Taplin.
 Wellington Andrew Thompson.
 Helen Campbell Townsend.
 Blanche Pearl Varnum.
 Jessie Mae Walker.
 Harriet Williamson.
 Bertha Grace Wright.

FOUR YEARS' ENGLISH COURSE.

Florence Barr.
 Florence Currier.
 Florence Mae Henderson.
 Arthur Parker Higgins.
 H. Augustus Hill.

Charles Henry McGee.
 Mary Louise Mooar.
 Edith Myra Sargent.
 Carl Wesley Spence.
 William Clarence Swallow.
 Edith Mabel Vaughan.

COLLEGE COURSE.

Dorothy Witter Branch.
 Ethel Chandler Brooks.
 Edward Kimball Burbeck.
 Helen Maria Chandler.
 Mabel Darrah.

Bertha Carrie Folsom.
 Bertha Lueva Martin.
 Elisabeth Riedell.
 Leopold Theodore Togus.
 Annie E. Waring.

THREE YEARS' ENGLISH COURSE.

Eva Matie Brown.
 Alva Emma Bullis.
 Archie S. Coldwell.
 Edward Clayton Corey.
 Annie Mae Danforth.
 Ludger J. Deschenes.
 Addie Louise Forrest.

Goldie Ann Huntress.
 Maurice L. Katz.
 Anabelle Frances Landers.
 Arthur Clayton Read.
 Waldo F. Sturtevant.
 Edward A. Watson.
 Maude Ethel Winegar.

TWO YEARS' CERTIFICATE.

Lotta Clifford.

William B. Pierson.

HONOR SCHOLARS.

English course.....Anabelle Frances Landers
 Classical course.....Fred Wilson Cook
 College courseMabel Darrah

X.—Winners of Clarke Prizes.

FOR EXCELLENCE IN ELOCUTION AT CONTEST, MARCH 8, 1899.

First prize, \$25, Annie Charlotte Kelty.

Second prize, \$20, Agnes M. Shea.

Third prize, \$10, Mary Milburn.

Fourth prize, \$5, Margaret E. Douglass.

XI.—Organization, 1900.

SCHOOL COMMITTEE.

WILLIAM C. CLARKE, MAYOR, Chairman, *ex officio*.HARRY T. LORD, President of Common Council. *ex officio*.

- Ward 1. Elliot C. Lambert.
Walter B. Heath.
- Ward 2. Charles H. Manning.
Elmer W. Nutting.
- Ward 3. George D. Towne.
Louis E. Phelps.
- Ward 4. Nathaniel L. Colby.
John H. Riedell.
- Ward 5. John T. Kelley.
Daniel J. McAuliffe.
- Ward 6. Eugene B. Dunbar.
Harry L. Davis.
- Ward 7. Edward B. Woodbury.
Edson S. Heath.
- Ward 8. Ned T. Wallace.
Frank A. Cadwell.
- Ward 9. R. Emmet Walsh.
Joseph A. Boivin.
- Ward 10. Mark E. Harvey.
Harry H. Burpee.

VICE-CHAIRMAN OF THE BOARD.

GEORGE D. TOWNE.

CLERK OF THE BOARD.

ELLIOT C. LAMBERT.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN.

TRUANT OFFICER.

CURTIS W. DAVIS.

STANDING COMMITTEES.

Finance. Mayor Clarke and Messrs. Lord, Woodbury, Wallace, and Nutting.

Salaries. Messrs. Woodbury, W. B. Heath, and Davis.

Text-Books. Messrs. Towne, Lambert, and Phelps.

Music. Messrs. Walsh, Phelps, and W. B. Heath.

Drawing. Messrs. Towne, Nutting, and Wallace.

Manual Training. Messrs. Phelps, Kelley, and Towne.

Examination of Teachers. Messrs. Colby, Lambert, and Woodbury.

Fuel and Heating. Mayor Clarke, Messrs. Lord, Manning, Boivin, Riedell, and Harvey.

Repairs. Messrs. Manning, Phelps, and Cadwell.

Attendance. Messrs. E. S. Heath, Lambert, McAuliffe, and Burpee.

Health. Messrs. Dunbar, Boivin, and Towne.

SUB-COMMITTEES.

High School. Messrs. Manning, Towne, Phelps, Lambert, Walsh, and Riedell.

Franklin-street. Messrs. Woodbury, Lambert, and Davis.

Spring-street. Messrs. W. B. Heath, Boivin, Nutting, and Burpee.

Lincoln-street and Youngsville. Messrs. Colby, Cadwell, Riedell, and Harvey.

Ash-street and Webster's Mills. Messrs. Phelps, McAuliffe, and Cadwell.

Webster-street and Stark. Messrs. Towne, Manning, and Kelley.

Bakersville and Mosquito Pond. Messrs. Kelley, Davis, W. B. Heath, and Harvey.

Varney. Messrs. Wallace, Kelley, and E. S. Heath.

Hallsville and Harvey. Messrs. Walsh, Dunbar, Colby, and Burpee.

Rimmon and Amoskeag. Messrs. Boivin, E. S. Heath, and Colby.

Training School. Messrs. Lambert, Walsh, and Woodbury.

Main-street. Messrs. Dunbar, Nutting, and Lambert.

Parker. Messrs. Cadwell, Woodbury, and McAuliffe.

Lowell-street. Messrs. McAuliffe, Riedell, and Towne.

Pearl-street. Messrs. Nutting, Phelps, and Dunbar.

Wilson and Goffe's Falls. Messrs. Davis, Dunbar, and Wallace.

Straw. Messrs. E. S. Heath, Wallace, and Manning.

Evening Schools. Messrs. W. B. Heath, Boivin, and Riedell.

XII.—List of Teachers.

HIGH SCHOOL.—BEECH STREET.

Master. Albert Somes.
Sub-Master. George I. Hopkins.
Assistants. Harry N. McLaren.
Hiram A. Stearns.
Nellie Pickering.
Florence M. Locke.
Theresa B. Stanton.
Mary J. Wellington.
Sara Hunt.
Annie W. Colby.
Mary H. Dowd.
Helen S. Smith.
Grace M. Page.
Winona M. Martin.
Elsie D. Fairbanks.

FRANKLIN-STREET SCHOOL.

Grammar Grades.

Master. Isaac Huse, Jr.
Master's Assistant. Alice C. Taggart.
Assistants. Carrie E. Hoit.
Carrie E. Head.
Nellie C. Parker.

Lower Grades.

Higher Middle. Alice M. Lamprey.
Lower Middle. Amy K. Northrup.
Higher Primary. Flora M. Walker.
Lower Primary. Susie L. Dodge.

LINCOLN-STREET SCHOOL.

Grammar Grades.

Master. Fred L. V. Spaulding.
Master's Assistant. Annie W. Patten.
Assistants. Belle R. Daniels.
Mabel J. Brickett.
Mary F. Barnes.

Lower Grades.

Higher Middle. Etta L. Stearns.
Lower Middle. Bessie E. Dodge.
Higher Primary. Theodora Richardson.
Lower Primary. Hulda C. Graupner.

ASH-STREET SCHOOL.

Grammar Grades.

Master. Charles W. Bickford.

Master's Assistant. Mabel Ruth Brown.

Assistants. Amelia L. Graupner.

Emma L. McLaren.

Ellen E. Connor.

Lower Grades.

Higher Middle. Emma J. Cooper.

Lower Middle. Kittie J. Ferren.

Higher Primary. May F. Nutt.

Lower Primary. Bertha A. Young.

WEBSTER-STREET SCHOOL.

Grammar Grades.

Master. John Gault.

Master's Assistant. Josephine W. Page.

Assistants. Luna A. Whitlock.

Alta C. Willand.

Eva F. Tuson.

Lower Grades.

Higher Middle. Edith Hammond.

Lower Middle. Jean Gillan.

Higher Primary. Mary E. Murphy.

Lower Primary. Mathel C. Henry.

VARNEY SCHOOL.

Grammar Grades.

Master. George Winch.

Master's Assistant. Rosabelle M. Franklin.

Assistants. Esther M. Dickey.

Ellen E. McKean.

Millie S. Morse.

Lower Grades.

Higher Middle. Mary J. Walsh.

Lower Middle. Marcia M. Moore.

Higher Primary. Gertrude Adams.

Lower Primary. Annie E. Walsh.

HALLSVILLE SCHOOL.

Grammar Grades.

Master. William H. Huse.
Master's Assistant. Ella F. Barker.
Assistants. Olive A. Rowe.
Kate E. Batchelder.

Lower Grades.

Higher Middle. Susie G. Woodman.
Lower Middle. Mary L. Ayer.
Higher Primary. Bertha L. Kemp.
Lower Primary. E. Alfreda Hall.
Lower Primary. Annie R. Corson.

BAKERSVILLE SCHOOL.

Grammar Grades.

Principal. Lizzie A. Burns.
Assistant. Lelia A. Brooks.

Lower Grades.

Mixed Middle. Cora M. Farmer.
Higher Primary. Augusta S. Downs.
Mixed Primary. S. Izetta Loecke.
Lower Primary. Mary L. Heath.

RIMMON SCHOOL.

Grammar Grades.

Principal. Louis H. Bailey (Grammar classes).
Assistant. Lillian F. Crowther.

Lower Grades.

Mixed Middle. Mary A. Seavey.
Higher Primary. Hattie S. Tuttle.
Lower Primary. Blanche E. Hicken.

WILSON SCHOOL.

Grammar Grades

Principal. Barbara B. Joy.
Assistants. Hellen Morison.
Cora B. Gilford.

Lower Grades.

Higher Middle. Harriet H. Richardson.
 Lower Middle. Florence Richardson.
 Higher Primary. M. Clara Hawks.
 Lower Primary. Florence L. Abbott.
 Lower Primary. Bessie Cochran.

STRAW SCHOOL.

Grammar Grade.

Principal. Lizzie P. Gove.

Lower Grades.

Higher Middle. Gertrude H. Brooks.
 Lower Middle. Lettie M. Smith.
 Higher Primary. Nellie M. James.
 Lower Primary. Florence H. Moore.
 Lower Primary. Edith M. Stebbins.

TRAINING SCHOOL.

Merrimack street, corner Union.

Principal. Caroline E. Wing.
 Head Assistant. Grace A. Phillips.

The principal is also assisted by the sub-teachers, i. e., members of the training class. The school embraces the first four years of school work, in the following grades: Lower Primary, Higher Primary, and Lower Middle. There are four rooms, two of lower primary grade.

SPRING-STREET SCHOOL.

Principal. Annabel Emerson, Higher Middle.
 Lower Middle. Fannie D. Moulton.
 Higher Primary. Nellie I. Sanderson.
 Mixed Primary. Lura B. Gage.
 Lower Primary. Lizabell Savory.

MAIN-STREET SCHOOL.

Principal. Mary W Mitchell, Higher Middle.
 Higher Middle. Mary A. Clement.
 Lower Middle. Lottie M. Clement.
 Higher Primary. M. Minnie Sturtevant.
 Higher Primary. Hattie O. Willand.
 Lower Primary. Kate T. Clarke.
 Lower Primary. Mabel F. Robinson.

PEARL-STREET SCHOOL.

Principal. Mary G. Tynan, Higher Middle.
Lower Middle. Nellie M. Smith.
Higher Primary. Ella Hope.
Lower Primary. Georgia M. Cheney.

PARKER SCHOOL.

Principal. Mary E. Moulton, Grammar and Middle.
Lower Middle. Lois M. Magoon.
Higher Primary. Delle E. Haines.
Lower Primary. Blanche M. Folsom.

LOWELL-STREET SCHOOL.

Principal. Helen M. Morrill, Higher Primary.
Lower Primary. Katharine A. Frain.

PARTIALLY GRADED SCHOOLS.

Amoskeag. Mary A. Buzzell, Grammar and Middle.
Middle and Primary. Clydie M. Flanders.
Lower Primary. Marion F. Partridge.
Goffe's Falls. Percy N. Folsom, Grammar and Middle.
Mixed Primary. Maud M. Greaney.

UNGRADED SCHOOLS.

Stark. Inez M. Warren.
Harvey. Emma J. Ela.
Youngsville. Lura K. Kimpton.
Webster's Mills. Josephine L. Riddle.
Mosquito Pond. Nellie M. Atwood.

SPECIAL TEACHERS.

Music. Fred B. Bower, Florence Dow.
Drawing. J. Warren Thyng.
Manual Training. Fred E. Browne.

JANITORS.

High School.

Charles F. Jack. Engineer, George H. Jack.

Franklin-street and Training Schools.

Varnum H. Hill.

Lincoln-street and Wilson Schools.

William H. Newry.

Ash-street and Pearl-street Schools.

John S. Avery.

Webster-street and Straw Schools.

William J. Powers.

Spring-street and Lowell-street Schools.

S. H. Batchelder.

Hallsville School.

William Stevens.

Bakersville School.

Edwin N. Baker.

Varney School.

Robert Cook.

Main-street and Parker Schools.

William F. Conner.

Rimmon School.

(Vacancy.)

Amoskeag School.

Charles H. Corey.

XIII.—School Year, 1899-1900.

Fall term of fourteen weeks opened September 11, 1899; closed December 15, 1899. Vacation of two weeks.

Winter term of twelve weeks opens January 1, 1900; closes March 23, 1900. Vacation of two weeks.

Spring term of eleven weeks opens April 9, 1900; closes June 22, 1900. Vacation of eleven weeks.

REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.

REPORT OF THE TRUSTEES OF THE CITY LIBRARY.

To the City Councils of the City of Manchester:

The trustees of the City Library respectfully submit their forty-sixth annual report of the affairs of the library, and, accompanying the same, the report made to them by the treasurer of the board, giving an account of the sums received and the expenditures made by him in behalf of the board from the funds in their possession and under their control; and also the report of the librarian, made to the board, giving in detail the statistics of the operation of the library during the past year.

From the report of the librarian it appears that the library has been open for the delivery of books, during the past year, three hundred and five days, during which time seventy-seven thousand one hundred and fifty-nine books were delivered for home use, an average of two hundred and fifty-three per day. In addition to the above number delivered for general circulation, seventeen thousand three hundred and ninety-nine books were delivered for use in the reading room, an average of fifty-seven per day. The total number of books delivered for general circulation and for use in the reading room was ninety-four thousand five hundred and fifty-eight, an average of three hundred and ten per day.

As compared with the year preceding the circulation for home use shows a decrease of three thousand two hundred and seventy-seven and the number delivered for use at the reading room a decrease of sixteen hundred and thirty-one. The total circulation was four thousand nine hundred and eight less than the previous year. The record kept at the library shows that this decrease in circulation is confined entirely to the department of fiction, the percentage of circulation in this class dropping off from 81 to 77 per cent of the total circulation. All the other classes show quite an increase in circulation over that reported for the previous year.

The number of periodicals regularly received at the library during the year was eighty-six, of which number fifty-seven were purchased and twenty-nine were donated. On the completion of the various volumes they have been bound and placed upon the shelves for general circulation.

The number of volumes in the library at the date of the last report, including maps and pamphlets, was fifty-two thousand eight hundred and forty-three. During the year there have been added by purchase

six hundred and eight volumes, by donation four hundred and ninety-nine volumes and ninety-seven volumes of periodicals have been bound, a total of twelve hundred and four, making the number of bound volumes in the library at the close of the year, forty-three thousand three hundred and twenty-nine, and the total number, including sixteen maps and seven hundred and two pamphlets, forty-four thousand and forty-seven.

One hundred and seventy-six volumes were withdrawn from circulation during the year, having become too much worn and defaced to be fit for further use. Of these and of others retired from circulation in former years for like reason, one hundred and fifty-two volumes have been replaced at a cost of one hundred and twenty-six dollars and twenty-six cents.

The re-classifying and re-cataloguing of the library has been continued during the year, and the librarian reports the number of volumes re-classified as five thousand and eighty-six, and the number re-catalogued as five thousand one hundred and thirty-six. The public documents and newspapers still remain to be catalogued, as well as the pamphlets and some miscellaneous sections of the library. When these departments are finished, it will be necessary to still further extend the cataloguing in analyzing subordinate subjects in order to make the card catalogue more complete and useful.

Accompanying the report of the librarian will be found the names of persons making donations to the library during the year, with the number of books or periodicals presented by each person. Due acknowledgment has been made in behalf of the trustees to all who have in this manner shown their interest in the increase and prosperity of the library.

The attention of the city councils is called to the suggestions contained in the present report of the librarian, as also in the report of the previous year, relative to a reading room for children at the library.

The report of the treasurer shows that during the year the sum of thirteen hundred and fifty-two dollars and seventy-nine cents has been expended for the purchase of books, and the sum of three hundred and sixty-three dollars and sixty-four cents for the purchase of periodicals, making a total expenditure for both of these purposes of seventeen hundred and sixteen dollars and forty-three cents. Of the amount expended for the purchase of books, the sum of one hundred and twenty-six dollars and twenty-six cents was used for the purchase of books to replace those worn out and withdrawn from circulation, and the sum of six hundred and seventy-three dollars and sixteen cents was taken from the income of the Dean fund and applied to the increase of that department of the library. Exclusive of these two items, the sum expended for the purchase of new books was five hundred and fifty-three dollars and thirty-seven cents, leaving a balance in the hands of the treasurer, at the close of the year, of the amount appropriated by the city councils for the purchase of books, of twelve hundred and fifteen dollars and ten cents.

The amount paid for periodicals includes periodicals purchased for the past year and also for the coming year, the trustees having discontinued the purchase of the same monthly from the news companies and subscribed direct from the publishers.

The balances at the close of the year of the accumulative income of the several funds under the control of the trustees were as follows:

Dean fund	\$7,829.94
Mary E. Elliot fund.....	1,578.88
Eliza A. Eaton fund.....	715.79

During the year two hundred and thirteen volumes were purchased from the income of the Dean fund, at a cost, as above stated, of six hundred and seventy-three dollars and sixteen cents.

The incidental expenses of the library for the past year have been four thousand three hundred and thirty-three dollars and forty-eight cents. The items that make up this amount will be found in detail in the annual report of the city, the bills for the same having been paid by the city treasurer from the sum appropriated by the city councils, for the library, upon their approval by the trustees.

The librarian, Miss Florence E. Whitcher, has continued to fulfil the duties of her position with the same conscientious effort and fidelity as heretofore, and to the satisfaction of the trustees.

The trustees return their acknowledgments to the members of the city councils, and particularly to the committee on lands and buildings, for the courtesy and consideration with which their suggestions relating to the affairs of the library have been received and carried out.

MARCH 23, 1900.

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.

WILLIAM C. CLARKE,
Mayor.

N. P. HUNT,
Clerk.

TREASURER'S REPORT.

To the Board of Trustees of the City Library:

The treasurer of the board submits the following account of the receipts and expenditures by the board of the funds received on account of the library:

1899.			DR.
Jan.	1.	To balance of appropriation.....	\$1,035.18
July	1.	appropriation for books for 1899....	1,000.00
		Florence E. Whitcher, books lost....	2.37
		Florence E. Whitcher, catalogues sold	6.20
		Florence E. Whitcher, balance of fines	214.62
			<u>\$2,258.37</u>
Jan.	1.	To balance of income of Dean fund....	\$8,006.34
		income of Dean fund (coupons).....	90.00
July	1.	income of Dean fund (coupons)....	90.00
		interest on accumulation of income	
		to July 1, 1899, Manchester Savings	
		Bank, Book No. 16445.....	91.08
		interest on accumulation of income	
		to July 1, 1899, Manchester Savings	
		Bank, Book No. 24442.....	142.44
Oct.	1.	income of Dean fund, Guaranty Sav-	
		ings Bank, Book No. 4078.....	73.50
		interest on accumulation of income	
		to Oct. 1, 1899, Guaranty Savings	
		Bank, Book No. 4557.....	9.74
			<u>8,503.10</u>
Jan.	1.	To Mary E. Elliot fund.....	\$2,000.00
		balance of interest, Mary E. Elliot	
		fund	1,457.88
Oct.	1.	interest on Mary E. Elliot fund to	
		Oct. 1, 1899, Guaranty Savings	
		Bank, Book No. 2009.....	70.00
		interest on accumulation of income	
		to Oct. 1, 1899, Guaranty Savings	
		Bank, Book No. 2010.....	51.00
			<u>3,578.88</u>
Jan.	1.	To Eliza A. Eaton fund.....	\$3,000.00
		balance interest, Eliza A. Eaton fund	590.15

Oct.	1.	To interest on Eliza A. Eaton fund to Oct. 1, 1899, Guaranty Savings Bank, Book No. 4327.....	\$105.00	
		interest on accumulation of income to Oct. 1, 1899, Guaranty Savings Bank, Book No. 4328.....	20.64	
			<hr/>	\$3,715.79
				<hr/>
				\$18,056.14
1899.				CR.
Jan.	2.	Paid New England News Co., periodicals	\$13.28	
	7.	Boston Book Co., periodicals.....	5.00	
	9.	Publishers' Weekly, periodicals...	8.00	
Feb.	3.	New England News Co., periodicals	9.94	
	21.	Charles W. Smiley, periodicals....	4.00	
		George H. Polley & Co., periodicals	6.00	
	22.	W. B. Clarke Co., books.....	1.35	
		W. B. Clarke Co. (Dean fund), books	12.25	
Mar.	3.	New England News Co., periodicals	12.60	
	10.	D. L. Brownell, books.....	2.50	
	18.	Little, Brown & Co., books.....	3.75	
	22.	Publishers' Weekly, books.....	3.50	
	23.	New England Historical & Gen- ealogical Society, periodicals....	1.50	
April	4.	New England News Co., periodicals	12.41	
		Little, Brown & Co., books.....	2.00	
	7.	W. B. Clarke Co., books.....	102.68	
		Little, Brown & Co., books.....	1.50	
	17.	Publishers' Weekly, books.....	3.00	
	18.	George C. Gilmore, books.....	.50	
May	3.	New England News Co., periodicals	14.35	
	6.	W. B. Clarke Co., books.....	25.91	
	8.	Publishers' Weekly, books.....	3.50	
	15.	Helman-Taylor Co., books.....	5.00	
	22.	Granite Monthly Co., books.....	1.25	
	23.	George E. Littlefield, books.....	4.05	
	31.	D. Appleton & Co., books.....	5.00	
June	3.	New England News Co., periodicals	13.25	
	5.	W. B. Clarke Co., books.....	2.34	
July	11.	New England News Co., periodicals	10.30	
	12.	Little, Brown & Co., books.....	4.25	
Aug.	5.	New England News Co., periodicals	13.58	
		Little, Brown & Co., books.....	1.50	
		W. B. Clarke Co., books.....	242.76	
		W. B. Clarke Co. (Dean fund), books	268.63	

Sept.	5.	Paid New England News Co., periodicals	\$12.90
	6.	W. B. Clarke Co., books (replaced)	116.66
	12.	Little, Brown & Co., books.....	3.50
	18.	Boston Book Co., books (replaced)	9.60
Oct.	2.	Little, Brown & Co., books.....	3.50
	4.	New England News Co., periodicals	13.36
Nov.	4.	New England News Co., periodicals	10.19
		W. B. Clarke Co. (Dean fund),	
		books	240.81
	11.	W. H. Guild & Co, periodicals.....	191.30
	14.	Lawyers' Co-operative Publishing	
		Co., books	5.00
	24.	W. B. Clarke Co., books.....	97.86
	25.	John W. Congdon, books.....	5.25
Dec.	4.	New England News Co., periodicals	11.68
	7.	W. B. Clarke Co., books.....	15.92
		W. B. Clarke Co. (Dean fund),	
		books	151.42
	15.	Little, Brown & Co., books.....	6.00
			<hr/>
			\$1,716.43
Dec.	31.	By balance of appropriation.....	1,215.10
		balance of Dean fund income.....	7,829.94
		balance of Elliot fund and interest.....	3,578.88
		balance of Eaton fund and interest.....	3,715.79
			<hr/>
			\$18,056.14

The expenditures for incidental expenses of the library for the year ending December 31, 1899, the bills for which have been paid through the office of the city treasurer, upon the approval of the committee on accounts of the board of trustees, the items of which may be found in the annual report of the city, are as follows:

Services of librarian.....	\$900.00
Services of assistants to librarian.....	1,125.82
Fuel	309.01
Gas	5.48
Electricity	333.46
Insurance	125.00
Binding	139.05
Rebinding	386.00
Supplies	165.27
Printing	34.25
Water	16.00
Newspapers	6.00
Reclassification and cataloguing.....	707.25
Incidentals, cleaning	80.89
	<hr/>
	\$4,333.48

RECAPITULATION.

Balance December 31, 1898.....	\$2,006.76	
Appropriation for 1899.....	5,000.00	
	<hr/>	\$7,006.76
Paid trustees for purchase of books.....	\$1,000.00	
Incidental expenses	4,333.48	
Balance of appropriation December 31, 1899.....	1,673.28	
	<hr/>	7,006.76

Respectfully submitted.

N. P. HUNT,

Treasurer of Trustees of City Library.

DECEMBER 30, 1899.

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

WILLIAM C. CLARKE,

WALTER M. PARKER,

Committee on Accounts of City Library.

DECEMBER 30, 1899.

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.

JAMES E. DODGE,

City Auditor.

LIBRARIAN'S REPORT.

To the Board of Trustees of the Manchester City Library:

GENTLEMEN,—I herewith submit the forty-sixth annual report of the city library:

Whole number of accessions December 31, 1898.....	42,843
Added during the year 1899:	
By purchase	608
By gift	499
Periodicals bound	97
	1,204
Whole number at present.....	44,047
Including:	
Maps	16
Pamphlets	702
Bound volumes	43,329
	44,047
Number of periodicals regularly received:	
By purchase	57
By gift	29
Number of days the library was open for reading and distribution of books	305
Number of volumes delivered for home use.....	77,159
Average per day	253
Largest number any one day.....	610
Largest number any one month.....	8,315
Smallest number any one month.....	5,367
Number of volumes delivered in the reading room.....	17,399
Average per day	57
Total circulation for 1899.....	94,558
Number of cards used on deposit.....	6
Number of cards issued during the year.....	458
Whole number issued since last registration.....	12,720
Postals sent to delinquents	462
Worn-out books removed from circulation.....	176
Number of volumes replaced.....	152
Number of volumes lost or injured and paid for.....	6
Number of volumes repaired at bindery.....	1,289
Number of volumes repaired and covered at the library....	14,373
Number of volumes issued to teachers.....	876

Amount received from December 1, 1898, to December 1, 1899:

For fines	\$296.98	
catalogues	6.20	
books lost and paid for.....	2.37	
		\$305.55
Amount paid for expressage and incidentals.....		82.36
		<hr/>
Paid to N. P. Hunt, treasurer, December 28, 1899.....		\$223.19

CIRCULATION.

The circulation of books for home use during the year shows a falling off of 3,277. A similar loss has been experienced by other libraries and variously accounted for by the interest in the daily news for the past two years, the increased interest in out-of-door amusements, the exceptionally pleasant summer and fall, and other causes. While the Manchester library had a slight gain in the circulation last year, many others lost, and this year, while losing something in the number of books taken out, a comparison of the number of books drawn in the various classes of literature, with the number drawn last year, will show that the loss has all been in the use of fiction, all the other classes showing a gain over last year, and the percentage of fiction falling from 81 to 77. While considering that it is better to read any good work of fiction than to read nothing at all, it is gratifying to feel that the more solid reading is gaining in favor with the public. Following is a statement of the circulation by classes, with the percentage of each:

	No. Vols.	Per Cent
Periodicals	3,763	5
Philosophy and Religion.....	866	1
Biography	1,912	3
History	2,598	4
Geography and Travel.....	1575	2
Social and Political Science.....	742	1
Science and Useful Arts.....	2,461	3
Fine Arts	1,021	1
Literature	2,460	3
Fiction	59,761	77

The number of books issued for home use was 77,159, for use in the reading room was 17,399, making a total of 94,558. The number used by teachers was 876. These figures do not include a large number of books used for reference, of which no record can be kept.

There have been 176 worn-out books withdrawn from circulation this year, and many more are in nearly as bad condition. One hundred and fifty-two have been replaced by new copies.

EXAMINATION.

At the annual examination of the library, seven books were unaccounted for. Four were works of fiction. Of the others, two were

classed as literature, and one as medicine. One additional book was lost by the removal from the city of the person to whom it was charged. No address having been left, it was found impossible to trace it.

BUILDING.

Thanks are due to the committee on lands and buildings for their response to the request for repairs on the building. The floor of the reading room, and of many of the alcoves of the bookroom, has been covered with linoleum, which has partially removed a source of great injury to the books, in the dust arising from the old floor, which had become so worn that it could not be properly cleaned, and also lessening the noise of passing and repassing, which cannot be avoided by the present arrangement of the reading room. The roof has been repaired. The halls, which were so unsightly with broken plaster, and badly in need of paint, have been repaired and neatly painted. A new walk has been laid from the side door to Dean avenue, and the concrete in that passage itself renewed. Many smaller repairs and improvements have also been made, which greatly improve the general appearance of the library.

The need of new stepladders is even more pressing than for several years. A number of those now in use are unsafe, and as there are not enough now it is hardly possible to give them up. The demand for more reading room space is more urgent than ever before, and it is hoped that the city will second the efforts of the ladies to fit up a room suitable for the use of the children, and so advance the work of training the young in lines of usefulness and a broader culture, besides making the present room more available for others wishing to use the library.

CATALOGUE.

The work on the catalogue is progressing. Very much has been accomplished during this year. Five thousand and eighty-six books have been classified, and 5,136 have been catalogued, practically completing the work upstairs, with the exception of the pamphlets, bound and unbound. Social and Political Science and Medicine have been completed, the miscellaneous set of Public Documents have nearly all been done, but there still remains the regular set downstairs to be done. Several parts of divisions were left over as the different classes have been done. All these sections have been finished, except the Newspapers, which still remain to be arranged.

Of course there is still much analyzing necessary after the regular cataloguing is completed, in order to make the catalogue reach the highest point of usefulness, but this cannot be attempted until the regular work is finished.

The list of scientific books, known as the Dean Collection, is nearly ready to print, and it is hoped to have it in press before long.

As the work progressed, and no permanent place had been assigned the different classes as they had been done, it was found necessary to

rearrange the books on the shelves. Much thought and care were put into this change, not only to make the classes follow one another in the natural order of the classification, but to effect the moving with as little confusion as possible to the attendants with its consequent delay to the public, and also to avoid moving one set of books to a temporary resting place, in order to put up another set, thus necessitating a second moving of the same set of books. Great credit for the successful completion of this change is due to the patience and ready assistance of the desk attendants, who accomplished this work in addition to their regular duties. As all the books except those in Fiction, Travels, and a part of Literature had to be moved, it will be seen that the task was not a small or easy one.

ACCESSIONS.

New books to the number of 1,204 have been added during the year, 608 by purchase, 499 by gift, and 97 volumes of periodicals have been bound, and form a valuable addition to the library. Among the books received may be mentioned 213 purchased for the Dean Collection. These include many valuable and useful books on electricity, beside many scientific and technical works of permanent value. It is our purpose to keep in touch with the progress of the day in science and the arts, beside adding those books of a popular nature which appeal to a large portion of the community.

Lists of the new books have been printed in the daily papers from time to time throughout the year, as they were added to the library. The courtesy of the papers in printing these lists free of charge, as well as special lists which have been prepared as they were needed, is gratefully acknowledged. Among these lists may be mentioned those on Botany, Birds, and Insects, prepared for the use of the members of the Institute interested in those particular lines of study.

Respectfully submitted.

FLORENCE E. WHITCHER.

Librarian.

Donations to Library.

	Books.	Pamphlets
Abbot Public Library, Marblehead, Mass.....	1	
Aguilar Free Library, New York City.....		1
American National Red Cross Relief Committee.....		1
American Swedenborg Printing & Publishing Society..	6	
Amherst College		1
Amherst College Library		1
Ancient and Honorable Artillery Company of Massachusetts		2
Ancient Free and Accepted Masons of Massachusetts..		1
Apprentices' Library Company, Philadelphia, Pa.....		2
Armstrong, G. W.....	1	

B. F. Sturtevant Co.....	1	6
Baillie's Inst. Free Library, Glasgow.....		2
Bigelow Free Public Library, Clinton, Mass.....		1
Boston, Mass.—Public Library.....		2
Bradley, Denis M., Bishop.....	1	
Bridgeport, Conn.—Public Library.....		1
Brookline, Mass.—Public Library.....		1
Brooklyn, N. Y.—Library.....		3
Bureau of American Republics.....		3
Burlington, Iowa.—Free Public Library.....		1
Cambridge, Mass.—Public Library.....		1
Carnegie Library, Pittsburg, Pa.....		1
Carvelle, H. DeW.....	15	
Chicago, Ill.—Public Library.....		1
Cincinnati, O.—Public Library.....		1
Civil Service Reform Association.....		1
Clarke, Arthur E.....	35	
Cleaves, George P.....	1	19
Concord, Mass.—Free Public Library.....		1
Concord, N. H.—Public Library.....	1	1
Cook, F. O.....	1	
Cornell University		1
Dartmouth College		2
Depew, C.		1
District of Columbia Public Library.....		1
Dodge, J. E.....	19	
Dodge, T. H.....	1	
Dover, N. H.—Public Library.....		2
Drummond, J. H.....	2	1
Enoch Pratt Free Library, Baltimore, Md.....		1
Evanston, Ill.—Free Public Library.....		1
Everett, Mass.—Public Library.....		1
Fairmount Park Art Association, Philadelphia, Pa.....		1
Fall River, Mass.—Public Library.....		1
Fletcher Free Library, Burlington, Vt.....		1
Forbes Library, Northampton, Mass.....		1
Friends' Free Library, Germantown, Pa.....		1
Gallinger, J. H.....	1	
Grand Rapids, Mich.—Public Library.....		2
Hall, Mrs. M.....	1	
Hall, W. S.....		1
Harrison, C. H.....		1
Harvard University	1	2
Helena, Montana.—Public Library.....		2
Holy Cross College.....		1
Houghton, Mifflin & Co.....	1	1
Hunt, C. W.....		1
Indian Rights Association.....		3

Intercontinental Railway Commission.....	7	2
Interstate Commerce Commission.....	1	
Jersey City, N. J.—Free Public Library.....		1
Lake Mohonk Conference on International Arbitration		1
Lamb, F. W.....		2
Larned, C. W.....	1	
Lawrence, Mass.—Free Public Library.....		1
Lawyers' Co-operative Publishing Co.....		6
Lynn, Mass.—Public Library.....		2
Lytle, John J.....		16
Maimonides Free Library, New York City.....		1
Malden, Mass.—Public Library.....		1
Manchester, N. H.—Chief Engineer of Fire Department		1
“ “ City Engineer		1
“ “ Engineer's Department		1
“ “ Street and Park Commissioners...		1
Massachusetts Institute of Technology.....		2
Medford, Mass.—Public Library.....		1
Melrose, Mass.—Public Library		1
Melville, George W.....		10
Minneapolis, Minn.—Public Library.....		1
Missouri Botanical Garden.....		1
Nashua, N. H.—Public Library.....		1
National Civil Service Reform League.....		2
New Hampshire.—Centennial Home for the Aged.....		1
“ “ Insurance Commissioner	1	
“ “ Library Commission		3
“ “ Railroad Commission	1	
“ “ Secretary of State.....	3	
New Haven, Conn.—Free Public Library.....		1
New York City.—Mercantile Library.....		1
New York State.—State Botanist.....		2
Newark, N. J.—Free Public Library.....		2
Newberry Library, Chicago, Ill.....		1
Newton, Mass.—Free Library		1
Norman, L.		1
Norwich University, Northfield, Vt.....		1
Ohio Wesleyan University.....		1
Paterson, N. J.—Free Public Library.....		1
Peabody Institute, Baltimore, Md.....		1
Pennsylvania College of Dental Surgery.....		3
Peoria, Ill.—Public Library.....		1
Perkins Institution and Massachusetts School for the Blind		1
Philadelphia, Pa.—Free Library.....		2
Porter, Edward G.....		1
Portland, Me.—Public Library		1
Princeton University		1

Providence, R. I.—Public Library.....		1
Puget Sound Bureau of Information.....		1
Reinstein, J. B.....		2
Richards, L. S.....	2	
Richardson, W. A.....	1	
St. Giles Public Library, London, Eng.....		1
St. Louis, Mo.—Mercantile Library.....		1
Salem, Mass.—Public Library	1	1
Seranton, Pa.—Public Library.....		2
Slayton, E. M.....	1	
Society of Colonial Wars, Washington, D. C.....		1
Somerville, Mass.—Public Library.....		1
Southbridge, Mass.—Public Library.....		1
Spofford, C. B.....		1
Staples, Carleton A.....	1	
Syracuse, N. Y.—Central Library.....		1
Taylor, C. F.....		2
Tucker, C.	1	1
United States.—Agricultural Department.....		4
“ “ Bureau of Education.....	3	1
“ “ Civil Service Commission.....	2	1
“ “ Fish Commission	2	
“ “ Interior Department	2	22
“ “ Labor Department	3	9
“ “ Smithsonian Institution	5	9
“ “ Superintendent of Documents.....	147	190
“ “ Treasury Department	2	2
“ “ War Department	8	4
University of Chicago.....		5
University of Pennsylvania.....		1
University of the State of New York.....	2	4
Unknown		4
Uruguay		12
Vedanta Society, N. Y.....		1
Wells College		1
Westboro, Mass.—Public Library.....	1	
Wilmington, Del.—Institute		1
Woburn, Mass.—Public Library		3
Worcester, Mass.—Free Public Library.....		1

Periodicals Presented.

Book Reviews.

Bulletin, Le.

Bulletin of Bibliography.

Case and Comment.

Catalogue of United States Public Documents.

Chicago Banker.
 Christian Science Journal.
 Christian Science Sentinel.
 Derry Times.
 Elliott's Magazine. (L. A. W. Bulletin.)
 Holy Cross Purple.
 Home Market Bulletin.
 Manchester.—Emerald.
 " Union.
 " Weekly Budget.
 Manifesto.
 New Earth.
 New Philosophy.
 Official Gazette of the Patent Office.
 Protectionist.
 Plymouth Record.
 Skandinavia.
 Sound Currency.
 Sunset.
 Tablet.
 Tennessee University Magazine.
 Travellers' Record.
 Washington News Letter.
 Woman's Home Companion.



REPORT OF THE BOARD OF HEALTH.



REPORT OF BOARD OF HEALTH.

To His Honor the Mayor:

The Board of Health submits the following report for the year 1899:

Dr. William M. Parsons having been appointed to succeed himself there was no change in the membership of the board, and the organization has been the same, viz.: John C. Bickford, president, and William K. Robbins, clerk.

EXPENDITURES.

Salaries	\$600.00
Labor	2,733.65
Office furniture	55.32
Printing, advertising, and postage.....	127.83
Traveling expenses (teams and carfare).....	209.41
Express	3.17
Telephone service.....	64.65
Water and milk analyses.....	15.60
Legal expenses	
Antitoxine	25.80
Laboratory	6.91
Diphtheria examinations	65.00
Disinfectants	265.45
Aid given families quarantined.....	255.55
Board, fuel, etc., for pest-house.....	75.60
Gas and incidentals.....	46.43
	<hr/>
	\$4,550.37

The expenditures, as will be seen by the above list, were very nearly the same as last year. There being fewer cases of diphtheria and scarlet fever than the average of past years, the expenses for antitoxine and aid to quarantined families was less than we expected, and the appropriation allowed us was not all used, \$214.92 being turned over to the reserve fund.

MEETINGS.

The regular weekly meetings have been continued on Tuesday evenings at 7 o'clock. Forty-seven such meetings were held, and eleven special meetings for trips of inspection, etc. Fewer trips of inspection were made than would have been had not the inspectors been kept so busy with other work that no house to house inspections were made.

INSPECTORS.

The same employees have been retained at the office as last year, viz.: Carl O. Seaman, inspector of plumbing, J. F. Looney and William B. Blake, general health inspectors, and Miss M. Alma Fracker, office clerk; and it is due to their efficiency and experience that the large volume of business going through the department has been properly cared for.

The 1,026 cases of contagious and infectious diseases reported during the year means that many more than that number of visits must be made to put up cards, obtain information regarding the case, and make sanitary inspection of the premises. One hundred and thirty of these cases were scarlet fever, and each case occasions about twenty subsequent visits to guard the quarantine, and also to do errands for the family, making 2,600 more. The fifty-six cases of diphtheria and membranous croup each require an average of ten subsequent visits attending upon quarantine, or 560 trips. The 762 cases of measles require each one trip to remove card. The 186 cases of membranous croup, diphtheria, and scarlet fever require so many fumigations, and each requires two trips, or 372. So the contagious diseases alone required 5,320 visits by the inspectors. Add to this the number of days spent at the lake, the barn cellars and vaults inspected, and responses to general complaints, and it will be understood these men really have something to do.

BACTERIOLOGICAL LABORATORY.

During the year forty-seven examinations for diphtheria have been made, and two for the germs of tuberculosis. This enables the board to give the public better protection against the disease, and yet often enables them to liberate a suspected patient who, but for this test, would have to endure the hardship of quarantine. The expense of maintaining this department is very small. Of the forty-seven diphtheria examinations twenty were positive and twenty-seven negative. Of these fifteen were examinations for the discharge of patient.

GARBAGE AND REFUSE.

The manner of disposal of garbage and refuse remains the same as last year. The dumping places are outside the city sanitary limits, and have been better kept than for many years. Wherever they are and however kept they are a nuisance and injurious to the public health, and should not be tolerated. That burning is feasible is shown by the fact that parties have offered to contract under bonds to do the work of collecting and burning for a less sum per year than it now costs the city to pile it up in heaps to rot.

SCHOOLHOUSES.

From frequent inspections of schoolhouses, we believe the floors and desks should be more frequently washed; certainly as often as once each

month; that all books should be covered, and the covers changed at each promotion, or every time the books are assigned to different pupils.

ISOLATION HOSPITAL.

We would again call your attention to the need of an isolation hospital, and would refer to our report of last year upon the subject, which it seems scarcely worth while to repeat. Conditions therein described still remain, and as time is fast demolishing the old pest-house, the need of proper accommodation grows more urgent. During the past year there was much less than the usual amount of the more dangerous contagious diseases, and the lack of accommodation has not been so severely felt, but anything in the nature of an epidemic would find the city poorly provided to meet it.

SMALL CEMETERIES.

There are several small cemeteries about the city where there is no superintendent, and in these burials sometimes take place without the permit required by law because there is no one to demand it. Two bodies were so buried at Stowell cemetery during the year by undertakers from other towns. We found that they had burial permits issued by their own town, and they considered they had done what was right and proper. It will be seen that in this way bodies are interred in Manchester, and yet the city registrar has no record to show where they are. Indeed, the body of a murdered person might be so interred, and the fact not be known. We would, therefore, suggest that some person be designated to act as superintendent of each of the following cemeteries: Amoskeag, Goffe's Falls, Manchester Center, Merrill, Piscataquog, Stowell's, and the one on Young road near Jewett street.

STREET CATCH-BASINS.

Complaint is frequently made at this office of the bad odors rising from street catch-basins. The complaints are usually well grounded, since most of the basins are not properly trapped. The trouble from these odors is often increased by workmen cleaning them out and leaving them open until the next rain.

When several of these are in close proximity (as, in one case, eight within a radius of one hundred feet) the odors arising become a serious menace to the health of those living near by. The remedy is to be found in providing a proper trap, and clean out below the frost line in every catch-basin where odors of sewer gas become noticeable.

UNOCCUPIED BUILDINGS.

We would again invite the attention of the public to the fact that when a building remains long unoccupied the water evaporates from the traps of the plumbing fixtures, and thus gives free admission of

sewer gas, and all doors and windows being closed, the house becomes saturated with the filthy gas. We often find diphtheria and kindred diseases in such houses when first reoccupied. It may be doubted whether sewer gas *causes* such diseases, but it certainly promotes their development. The remedy is simple and cheap: In every house not to be occupied even for a short time, the water should be drawn from the traps of the plumbing fixtures and replaced by some fluid, oil or glycerine. Kerosene answers very well.

THE PLUMBING LAW.

During the year a new plumbing law has gone into effect, which requires every plumber, master or journeyman, to register as such before September 1, 1899, and such as did not register, or who came to the city after that date, to be examined and licensed. This city was the first in the state to make full compliance with the state law. The mayor appointed the board of examiners in good season, and on the first of September all plumbers of the city were registered, and the board in readiness to give written, oral, and practical examinations to any who might apply for license and examination.

A list of all licensed plumbers has been furnished this board for the use of the plumbing inspector, together with the request that any violation of the state plumbing law be reported to the board of examiners of plumbers.

Besides inspecting the plumbing work in progress in the city, the inspector has made many inspections of old work in public buildings, factories, stores, and private dwellings. His judgment in the matter of establishing or remodeling drainage systems has been frequently sought, and with much benefit to the parties and protection to the public.

The State Industrial School is a particular instance, and as now remodeled the drainage of that institution is most excellent, and the work was done cheaply and with expedition.

The inspector reports that there are in use in the city probably 3,000 of the old-fashioned water-closets that are flushed by direct pressure. The supply pipes to these are small and the valves poor, so they are seldom found to be clean and sanitary, and are usually in a leaking condition, permitting much water to run to waste. Probably 2,000 of these closets are in service without meters, so the waste of water is considerable. A decision by the board of water commissioners to require meters in all cases where direct pressure closets are used would do much toward eradicating these nuisances, and at the same time prove a great saving to the city's supply.

MILK SUPPLY.

The infant mortality of the city continues to be distressingly large, and as the greater portion of it results from cholera infantum and other bowel diseases, it is quite a safe presumption that the milk used

is responsible for most of these sad results. There is no doubt that much of the milk is damaged by improper care and handling on the part of consumers, yet it is also quite certain that a considerable portion of it is spoiled and unfit for food when delivered.

The trouble with the consumer is lack of intelligent cleanliness in the care of vessels in which the milk is kept, and the feeling of economy,—false economy,—in saving a few cents which ought to be paid for ice, and paying out dollars to doctors and undertakers, to say nothing of the loss of time and discomfort of having sickness in the home. With ice so cheap and readily delivered in all parts of the city, no family, however poor, wherein there are small children to feed, can afford to be without it.

On the other hand, more stringent measures should be taken to secure to the consumer pure, clean, sweet milk which, with proper care, will keep until used. This he has a right to expect.

Just what proportion of ignorance and willfulness there is on the part of milkmen and farmers, which results in spoiled milk, may never be determined, but that both exert their influence is beyond doubt. When a man simply doesn't know enough about the business to keep his cans clean and his milk cool (and such we have found) he must be ignorant; and when another smells of a can that emits an odor which would insult a green fly, and then says "That is clean enough," it may be ignorance, but it may also be a feeling that some one else will drink from that can and he does not care. But when a man who does not keep a cow puts out to his customers a fourth more milk than he gets from his producers, there is no doubt of there being something deliberate in the transaction.

Having found a number of cases of typhoid fever on one milk route, the inspectors were instructed to investigate the source of the milk. The milkman was found to know little or nothing about the business he followed, and at the farm of one of his producers it was found that the cans were washed with water from a well that subsequent examination showed to be contaminated with the germs of typhoid fever. The board forbade the sale of milk from that farm, and requested the state board of health to close the well, it being outside of our jurisdiction.

Three times during the year the inspectors have traced scarlet fever back to the milkman or farmer. Several places have come to the notice of the board during the year, where milk is mixed and recanned for distribution in horse stables where contamination with fermenting organisms is almost certain to take place.

As to the use of preservatives, the watering and adulteration of milk, we have made no investigations, leaving that field to the city milk inspector. Of this official we have no disposition to complain, but would rather commend him for what is done under the circumstances. Yet it is only justice to the public, and especially to the infant portion of it, to say that the inspection of milk in this city falls far short of what the public have a right to expect.

To begin with, the milk inspector is not chosen for the work because of his knowledge of the milk business, or of sanitation, nor yet because of special ability to inspect, test, or analyze the milk. He has no bureau or department to direct his efforts or sustain his decisions; neither has he any funds or resources at his disposal with which to bring offenders to justice. Thus isolated and handicapped, there is no reason to hope that the service can ever be really efficient.

This work pertains wholly to the public health, and the health department are often criticised for not doing more in this direction. In view of these circumstances, we invite your serious consideration as to whether some change cannot be effected that will give the people more efficient service in this branch of the public service.

FOOD INSPECTION.

Several times during the year we have been confronted with the problem of food inspection.

We are well aware that much green and partially rotten fruit is sold, more often to small children who cannot be expected to judge of the wholesomeness of food, and there is reason to believe that many cases of spasms and bowel troubles result therefrom.

During the past summer an outbreak of what was, by the physicians, called ptomaine poisoning occurred in a boarding-house. This, of course, resulted from consuming partly decayed food. Investigation showed that this might easily enough have happened at that place, from the uncleanly manner in which the foods were handled, but the plumbing was also found to be very defective, and the exact responsibility could not be placed. We are pleased to say, however, that when the defective condition was brought to the attention of the owners of the building it was promptly repaired and put in a sanitary condition.

The last of November, when much poultry was in the market for the Thanksgiving trade, the weather was warm and we were satisfied that much of this poultry spoiled and was sold when unfit for human food. In these cases no effective action can be taken, because the statutes do not empower any one to condemn or confiscate such goods, and there is scarcely any hope of securing a conviction on the charge of "keeping or exposing" for sale.

WATER-SUPPLY.

Few people realize the many sources of contamination of our naturally excellent water-supply, and many have the feeling that where there is so much water a small amount of filth will not be noticeable. A considerable number have a very nice way of saying that it is understood that "water will purify itself in running four miles."

There was formerly a feeling among scientific men that water becomes purer by running a considerable distance, and it is a proven fact that a heavily polluted water will contain a smaller amount of

pollution after flowing in a good stream well exposed to sunlight, but such does not make it necessarily, or even probably, pure. Indeed, the science of bacteriology has made it certain that no distance of running can be depended upon to render water pure from any given kind of bacteria, especially those of the disease producing kinds.

It is well known that the germs producing typhoid fever and cholera not only continue to live in water, but grow and multiply. Therefore, the only proper way is to take every possible precaution to keep everything out of the lake that could possibly carry organisms into it, or that will add to the organic matter present upon which they subsist. This is the aim which the board of health has in view.

For years we have been handicapped in our efforts by the need of proper legislation. The last legislature passed a law empowering the state board of health to make regulations governing bodies of water used for domestic supply. Accordingly, after conference with the boards of health of this city and the town of Auburn, the state board adopted a set of rules which went into effect June 8, 1899. If courts shall sustain these rules, which the police court of Auburn has done in two instances, we shall be able to secure a good degree of protection to the water.

During the past season Lake Massabesic has been very low, and for the first time in many years several of the boggy places along the shore became dry land, and also banks of sawdust were left out of the water. We believe that such exposed material of a perishable nature should be removed whenever circumstances render it possible. Not that any particular source of danger exists in them, but because perishable matter may at any time become a source of danger. The dried-up bogs could have been cleared up and burned over at a very moderate expense. Indeed, the water commissioners cleared up a small bog near Deer Neck bridge, and it is much to be regretted that a good beginning was not continued. Such opportunities do not often occur, and we would express the hope that another such will not be allowed to pass without every boggy place about the lake being cleared of all vegetable growth of every kind. It would help the water directly by decreasing, if not entirely removing, the disagreeable taste and odor which are noticeable at some seasons of the year, and indirectly by setting an example of enterprising cleanliness which the public would tend to follow.

TABLE No. 1.

MONTHS.	Membranous croup.		Diph- theria.		Typhoid fever.		Measles.		Scarlet fever.		Vario- loid.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January	1	.....	3	.....	8	2	19	.....	13	1	.....	.....	44	3
February ...	.....	.....	5	.....	4	1	19	.....	10	.....	.....	.....	38	1
March .....	.....	.....	5	.....	1	.....	34	.....	15	.....	.....	.....	55	..
April.....	3	2	3	.....	12	4	7	.....	8	.....	.....	.....	33	6
May.....	2	1	8	.....	3	1	11	.....	20	.....	.....	.....	44	2
June .....	.....	.....	3	.....	1	.....	83	2	16	1	.....	.....	103	3
July .....	.....	.....	6	3	2	.....	101	.....	12	.....	.....	.....	121	3
August.....	.....	.....	1	.....	4	.....	28	.....	3	.....	.....	.....	36	..
September..	.....	.....	2	.....	15	1	68	1	4	.....	.....	.....	89	2
October.....	.....	.....	4	.....	9	.....	124	.....	8	.....	.....	.....	145	..
November..	.....	.....	3	2	17	3	79	1	10	.....	.....	.....	109	6
December ..	.....	.....	7	1	2	.....	189	1	11	1	.....	.....	200	3
Totals ..	6	3	50	6	78	12	762	5	130	3	.....	.....	1,026	29

CONTAGIOUS AND INFECTIOUS DISEASES.

The total of 1,026 cases of contagious and infectious diseases is not so impressive as it first seems when we remember that 762 of these are measles. That the disease gained such a start is probably due more than anything else to negligence in regard to reporting the cases in the beginning of the outbreak, for we are satisfied that a great many cases were not reported. Later on, householders became aware that they are required to report where no physician is called, and the cases are much more fully reported.

It is a relief to know that the mortality has been very low,—about $2\frac{1}{2}$ per cent.

There have been comparatively few cases of diphtheria and scarlet fever, the fatality of the latter being very low, a little over 2 per cent. The fatality in diphtheria has been very low, only 12 per cent, while with membranous croup 50 per cent of the cases died. This shows the value of early recognition. Both of these diseases are considered to be caused by the same organism, but with croup the onset is so light and gradual that the disease is not usually recognized until the last stage, when it is too late for any effective treatment.

It cannot be too strongly impressed upon the public mind that where even a small throat difficulty is accompanied by fever, professional aid should be called at once to make sure that if it is diphtheria it may be early recognized and promptly treated. If this is done in every case, there need be but little fear of fatal results.

TABLE No. 2.

YEARS.	Membranous croup.		Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Vario- loid.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1885.....	*	*	*	18	*	20	*	5	*	36	*	....	*	79
1886.....	*	*	*	9	*	12	*	.....	*	5	*	....	*	26
1887.....	*	*	73	17	28	18	94	4	*	9	..	....	*	48
1888.....	*	*	126	30	35	12	44	1	187	9	.....	....	392	52
1889.....	*	*	79	23	36	16	259	5	54	4	.....	....	428	48
1890.....	*	*	41	9	36	17	63	3	298	6	.....	....	438	35
1891.....	*	*	21	2	76	18	25	.....	89	2	.....	....	211	22
1892.....	*	*	26	5	33	11	44	2	451	11	.....	....	554	29
1893.....	*	*	7	1	79	15	110	5	212	2	.....	....	408	23
1894.....	12	12	42	11	74	21	67	3	223	8	.....	....	418	55
1895.....	17	11	47	11	73	21	55	4	68	1	.....	....	260	48
1896.....	17	14	103	28	81	20	500	3	61	1	1	....	763	66
1897.....	14	10	148	29	78	11	387	3	54	1	.....	....	681	54
1898.....	10	4	81	17	145	14	88	3	200	9	.....	....	524	47
1899.....	6	3	50	6	78	12	762	5	130	3	.....	....	1,026	29

The above table gives comparison of statistics of contagious and infectious diseases for the past fifteen years.

TABLE No. 3.—DEATH RETURNS.

TABLE SHOWING THE MORTALITY OF THE CITY BY DISEASES AND BY MONTHS FOR THE YEAR 1899.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Abscess of brain.....	1												1
“ of head.....									1				1
“ of liver.....									1				1
“ mastoid.....							1						1
“ perinephritic.....					1								1
“ retro-pharyngeal.....				1									1
Accident, burned.....	1			2	1								4
“ drowned.....				1	1	1							4
“ fall.....					1				1	1			2
“ railroad.....				1		1	1	2		2			7
“ run over by team.....							1						1
Albuminuria, acute.....	1												1
Althrepsia.....				1									1
Anæmia.....			1	1	1				1	1	1		6
“ pernicious.....								1					1
“ spinal.....								1					1
Angina pectoris.....					1								1
Aortic insufficiency.....					1								1
Apoplexy.....	2	1	2	4	4	1	3	2	1	4	4	1	29
Appendicitis, chronic.....											1		1
Asphyxia.....					1					1	1	1	4
Asthenia.....												1	1
Asthma, bronchial.....					1						1		2
Atrophy, infantile.....	1												1
Bladder, chronic inflammati'n.....		1											1
Brain, concussion of.....							1						1
“ congestion of.....			1									1	2
“ disease of.....		1											1
“ inflammation of.....												1	1
“ softening of.....				1									1
Bowels, acute inflammation of.....								1					1
Bronchitis.....	6	7		6	2	3	2	2	2	4	1	3	38
“ capillary.....	2	1	2		1	3	1	2	1	3	2	3	21
“ chronic.....	1	2	1					1	1				6
Burns.....												1	1
Cancer.....	1					3	1	1		1			7
“ of breast.....									1				1
“ of face and neck.....					1								1
“ of jaw.....				1									1
“ of liver.....	1						1						2
“ ovarian.....								1					1
“ of stomach.....		1			1								2
“ of throat.....									1		1		2
“ of uterus.....			1										1
Cerebral disease.....									1				1
“ softening.....								1					1
Cerebritis.....		1	1							1			3
Cholera infantum.....			1		2	6	25	21	16	5	1	1	78
“ morbus.....													1
Colitis.....						1		1					2
“ enteric.....	1							1	2			1	5
Concussion, cerebral.....				1									1
Congestion, cerebral.....											1		1
“ hypostatic.....												1	1
“ pulmonary.....					1		1						2
Convulsions.....	6	2	1	1	3	1	8	4		3	1	2	32
“ epileptic.....					1								1
Croup, catarrhal.....			1										1
“ membranous.....				2	1								3
“ spasmodic.....	2		1					1		1		1	6
Debility.....	3		2	1	3	1	3	6	7	2	5	3	36
Dentition.....		1				2	2	1		1		1	8

TABLE No. 3.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Diabetes			1			1	1		1				4
Diarrhea					3			1	2				6
Diphtheria							3				2	1	6
Dropsy			1			2						1	4
Duodenitis, from burns					1								1
Dysentery								1	1				2
Dyspepsia, chronic		1											1
Eclampsia				1	1		1						3
Encephalitis				1									1
Endocarditis		1									1		2
Enteritis	2	1				1				1	1		6
" gastro	1		1		1	4		2	1			1	14
" tubercular	1						1						2
Epilepsy			2										2
Fever, bilious				1	1			1				1	3
" brain				1									1
" gastric						1							1
" puerperal				1									1
" scarlet	1					1						1	3
" typhoid	2	1		1	4				1		3		12
Gangrene			1										1
Gastralgia									1				1
Gastritis	1			1	1		1			1		1	6
Gastrorrhagia			1										1
Heart, hypertrophy of							1						1
" dilatation of												1	1
" disease of	1	3	2		2	3	4	5	4	1	3	3	31
" mitral regurgitation of	1							1					2
" stenosis of	1												1
" neuralgia of										1			1
" paralysis of					1								1
" rheumatism of		1								1			2
" strain	1												1
" valvular disease of	2						3	2	4	1	3	1	16
Hemiplegia						1							1
Hemorrhage, cerebral				1									1
" of bowels							1						1
" pulmonary											1		1
Hepatitis			1										1
" tubercular	1										1		2
Hip, fracture of, and old age			1										1
Hydrocephalus		1							2		1	1	5
Hydropneumothorax				1									1
Ichoræmia and heart disease			1										1
Imunition	2	2	4	2	1	2	2	3		2	3	5	28
Indigestion, acute									1				1
Influenza	2	1											3
Intestinal obstruction				1	3				1		1	1	7
Jaundice							1	1					2
La grippe	4	5	4	2	1								16
Laryngitis, oedematous	1					1							2
Liver, amyloid degenerat'n of	1												1
" atrophy of		1					1						2
" cirrhosis of	2	1	1				1	1	1		1	1	9
" disease of						1		1					2
Lungs, congestion of	2				1			2	1			3	9
" oedema of										1			1
Malformation		1										1	2
Malnutrition													1
Marasmus	2	1	1		1		1		3	1	2	3	15
Measles						2			1		1	1	5
Meningitis		1	2	2	2	1	1			1		3	13
" cerebral		1		2		1			1	3	3	4	15
" cerebro-spinal	1		1	2	1	2				1	2		10
" tubercular	1					1	3						5

TABLE No. 3.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Metrorrhagia	1												1
Myclitis.....			1						1				2
Neglect.....										1			1
Nephritis.....	2	2	1	1	2	1	5			1	2	1	18
" chronic, interstitial.	1	2	1	2	2	2							11
Old age	5	2	1	2	2	2	2	2	3	3	1	1	24
Paralysis	3	1	3		1	1			1	1		1	12
Paraplegia		1											1
Paresis	1			1	1	1		1	1				5
Peritonitis	1		1	1	2		1					3	10
Pertussis	3		2		2	1	3	1		2	1		15
Phthisis pulmonalis.....	8	5	14	5	5	5	7	12	6	15	9	10	91
Pleurisy	1				1		1	1					4
Pneumonia	18	5	12	7	6	2	8	3	4	3	5	12	85
" broncho.....		3	2	5		1	2	1		2	1	1	18
" catarrhal.....			1	1							1		3
" croupous.....			1										1
" pleuro.....		1		1	1							1	4
" typhoid.....							1				1		2
Poisoning, accidental.....		2											2
" alcoholic.....	1				1								2
" ptomaine.....								1					1
Premature birth.....	2	2	1	7	5	1	1	2	2	4	3	5	35
Prostatitis and cystitis.....							1						1
Pulmonary collapse.....						1							1
Purpura hemorrhagica.....					1								1
Pyemia					1								1
Rachitis							1						1
Regurgitation, aortic.....		1										1	2
Rheumatism		2				1		1					4
Sarcoma of parotid gland.....										1			1
Septicæmia		1				1					3	1	6
Sepsis, acute						1							1
Shock, following operation.....				1				1					2
Skull, fracture of		1	1				1					1	4
Spina bifida									1				1
Spine, Pott's disease of.....											1		1
Stenosis, valvular						1							1
Stillborn	7	3	7	5	5	1	7	5	3	6	6	4	59
Stomach, ulceration of.....					1								1
Suicide, by cutting throat.....									1				1
" by drowning.....			1										1
" by hanging.....					1		1	1					3
" poisoning.....					1								1
" shooting.....							1					1	2
Syncope							1						1
Tabes mesenterica							1		1				2
Tetanus, traumatic											1		1
Tubercular disease of spinal cord.....							1						1
Tuberculosis	2				1	1			1	1	1	2	9
Tumor, multilocular, cystic ..			1										1
" ovarian.....					1								1
Ulcer, malignant			1										1
Ulceration, gastric							1						1
Unknown		2	1		1	1				1	1	2	9
Uræmia	1		1							1			3
Totals	111	78	100	82	92	76	121	97	90	87	88	104	1,127

TABLE

SOME COMPARISONS OF VITAL STATISTICS

	1885.	1886.	1887.	1888.	1889.
Population estimated.....	37,884	39,032	40,215	41,433	42,689
Number of deaths, exclusive of stillbirths	733	725	798	853	764
Deaths, per thousand of population.	19.35	18.57	19.84	20.59	17.90
Deaths of children under five years	312	313	356	397	353
Ratio, deaths of children to total deaths, per cent	42.56	43.17	44.61	46.54	46.20
Deaths of children per thousand of popu- lation	8.24	8.02	8.85	9.58	8.27
Deaths from zymotic diseases	231	205	256	227	199
Deaths from zymotic diseases per thou- sand of population.....	6.10	5.25	6.37	5.48	4.66
Cholera infantum	89	115	148	115	86
Consumption	93	109	93	109	79
Croup	12	21	25	24	25
Diphtheria	18	9	17	30	23
Bronchitis, all forms	29	11	29	37	35
Pneumonia, all forms.....	42	26	39	45	38
Heart disease, all forms.....	40	37	45	23	47
Scarlet fever.	5	.....	4	1	5
Typhoid fever.....	20	12	17	12	16
Measles	36	5	8	9	4
Whooping cough	11	3	1	5	6
Smallpox	3	.....	.....	.....	.....
Births reported.....	1,106	1,207	1,391	*830	*872
Births per thousand of population	29.19	30.92	34.59	.....	.....
Marringes reported	404	451	473	439	506

* The returns are manifestly incomplete.

No. 4.

FOR THE LAST FIFTEEN YEARS.

1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.
44,126	45,500	48,000	50,000	55,000	55,000	56,000	60,000	60,000	60,000
901	880	963	971	977	1,020	1,051	1,018	1,001	1,068
20.40	19.34	20.06	19.42	17.76	18.54	18.77	16.97	16.68	17.80
434	396	500	527	546	549	531	631	521	541
48.17	44.66	51.92	50.62	55.89	53.82	50.52	61.98	52.04	50.65
9.87	8.64	10.42	10.54	9.91	9.98	9.48	10.50	8.68	9.01
252	181	153	137	209	213	227	226	254	203
5.72	3.98	3.18	2.74	3.80	3.97	4.05	3.77	4.23	3.38
141	122	103	89	40	146	129	110	122	78
94	84	89	79	74	76	112	88	73	91
15	7	3	4	24	14	20	14	10	10
9	2	5	1	11	10	28	29	17	6
38	38	39	44	56	59	51	86	45	65
58	72	39	53	81	86	77	105	72	113
43	38	48	46	52	75	77	64	50	57
3	.....	2	5	3	4	1	1	9	3
17	18	11	15	8	21	19	12	14	12
6	2	11	2	4	1	3	3	3	5
4	5	.....	2	.....	2	3	13	2	15
*965	*985	1,178	1,491	1,247	1,440	1,714	1,614	1,500	1,489
463	549	637	650	616	599	652	634	565	583

Table No. 3 gives the total deaths during the year and the causes assigned therefor. We solicit a careful perusal of this, and Table No. 4, which compares the vital statistics for the past fifteen years. Much valuable information may be thus derived, the kind depending upon the subject most interesting to the reader.

It will be noticed that the various diseases which affect the lungs cause about one third of all the deaths. It may also inspire some one to be more careful of children afflicted with whooping cough to notice that there were fifteen deaths from that disease (pertussis) in 1899, while croup, diphtheria, and scarlet fever altogether caused only twelve deaths. Again, there were during the year thirty-two deaths from convulsions. As this results more often from acute indigestion than other causes, we are impressed with the importance of care in feeding. In this way many other useful bits of information are to be discovered in these tables.

In conclusion, we wish to express our hearty thanks to the mayor and the members of both branches of the city councils for encouragement and valuable assistance in the discharge of our duties.

We would also thank the members of the board of health of the town of Auburn for their kind co-operation and prompt assistance in our efforts to maintain the purity of the waters of Lake Massabesic.

JOHN C. BICKFORD,
WILLIAM K. ROBBINS,
WILLIAM M. PARSONS, M. D.,
Board of Health.

INSPECTORS' REPORT.

Gentlemen of the Board of Health:

We beg leave to submit the following as the report of the sanitary inspectors for the year 1899:

Vaults and privies inspected.....	197
Vaults inspected after cleaning.....	134
Water-closets inspected	2,244
Urinals inspected	28
Yards and alleys inspected.....	2,217
Cellars inspected	2,261
Barns and outbuildings inspected.....	216
Tenements inspected	554
Barn cellars inspected	191
Latrines inspected	31
Teams and riggings of excavators inspected.....	20
Soaperies, slaughter-houses, etc., inspected.....	7

Cleaning or repairs were ordered as follows:

Vaults and privies cleaned.....	124
Yards and alleys cleaned.....	497
Cellars cleaned	359
Barn cellars cleaned.....	43
Sheds, etc., cleaned.....	17
Tenements cleaned	123
Water-closets cleaned or repaired.....	1,274
Leaky drainpipes repaired.....	41

Houses within 100 feet of a public sewer and not connected therewith, 20.

Openings other than leaks in the drainage system were found in 138 places, and same were closed by order of the department. One thousand and eighty-seven sinks have been examined, and 281 have been ordered trapped.

Bathtubs inspected, 125; ordered trapped, 4.

Sewage was found running on the surface of the ground in 69 places, and such nuisances were abated either by entering the sewer or carrying away in some manner not offensive.

In doing the work of the department it has been necessary to make 5,785 calls, and to write 740 letters.

Four hundred and twenty-seven complaints have been investigated. In 352 cases the inspectors have been able to give relief, and in 75 cases

it was found that no cause existed, or that same was beyond the control of the department.

The Wilson school was disinfected, on account of an epidemic of scarlet fever which broke out there.

Twelve milk farms were inspected while trying to trace the cause of several cases of typhoid fever.

An inspection was made of one farm from which butter and produce were brought into the city and sold.

Cemeteries were inspected six times to see that bodies were being properly buried.

Sixty-one dead animals have been properly disposed of.

One hundred and fifteen hens and small animals have been removed from cellars.

Eighty swine and cows have been discovered being kept within the sanitary limits of the city, without licenses. Same were ordered removed or licenses procured.

Twenty-three complaints were made against the scavenger service; in each case the proper parties were notified and relief afforded.

Eighty-two persons were discovered throwing garbage in the back streets and lake, and were warned against the practice.

Private swill collectors have been warned 31 times to be neater in their work.

Seventy-three catch-basins or street cesspools have been inspected, and thirty-nine have been flushed or repaired by order of this department.

Sixty-eight notices have been prepared and served, and proper returns made.

A sanitary inspection has been made of 35 bakeshops.

Seven schoolhouses have been inspected.

Theatres were inspected 12 times; ordered cleaned and put into proper sanitary condition 3 times.

The dumps have been inspected 23 times.

One hundred and ninety-four nuisances not otherwise classified have been abated through the efforts of this department.

Householders have been given 23 permits to clean their own vaults.

Permits to the number of 1,528 have been granted for the burial or removal of dead bodies, and the returns forwarded to the city registrar.

A statement of mortality has been prepared each month, and copies sent to over two hundred other towns and cities, to local physicians, etc.

Contagious and infectious diseases have been reported as follows. Measles, 762; diphtheria, 50; typhoid fever, 78; scarlet fever, 130; membranous croup, 6; varioloid, 0; total, 1,026. Eight hundred and thirty-eight of these cases were reported by physicians, 65 by householders, 115 were discovered by the inspectors, and 10 cases were reported from the different hospitals. The inspectors were unable to trace the cause in 115 cases; in 568 cases the connection with some previous case was

clearly traceable. Colds were probably the occasion in 28 cases; 5 cases were contracted outside of the city; and in 10 cases it was reasonable to attribute the cause to unsanitary surroundings.

In 85 cases, disinfectants were being used. The inspectors ordered their use in 179 cases. At most of these latter places instructions were given as to their use, and in many cases the department furnished the disinfectants.

Bedding burned for contagious diseases twice.

In 160 cases patients were found well isolated, and in 104 cases inspectors were obliged to order isolation. In nearly all of these cases it was necessary for the inspectors to give instructions as to the steps to be taken.

Houses were watched to see that the rules of isolation were complied with, and 10 funerals were attended to prevent a too public observance of the same.

Six hundred and eleven rooms where disease had existed were fumigated by the inspectors.

One hundred and seventeen children who were attending school, and 115 people who were working and living in houses where contagious disease existed, were either restrained from attending school and employment, or instructed as to thorough isolation from the disease until all danger from contagion had passed.

Six cases have been cared for at the contagious disease hospital.

Nine hundred and fifty-two houses have been placarded, and the placards removed at the termination of the disease.

About 3,000 pamphlets issued by the State Board of Health have been distributed in the localities where contagious disease existed.

Weekly reports of contagious and infectious diseases have been sent to the State Board of Health, Concord, and the United States Marine Hospital Service, Washington, D. C.

The inspectors have each in turn patrolled the shores of Lake Massabesic, Sundays, holidays, and parts of every other day from June 1 to October 1.

Four ice fields from which ice was being cut were inspected.

Seven horse races were attended to prevent the pollution of the water and ice at the lake.

Two parties were prosecuted and fined for violation of the health laws at the lake.

Steamboats inspected 60 times.

Persons were warned as to the disposal of sink water.

Nuisances to the number of 18, not otherwise classified, were abated.

Several picnics and band concerts were attended, to prevent the careless disposal of waste and rubbish in the lake or on its shores.

Banana skins, sawdust, tin cans, paper, and rubbish of all sorts, have been removed whenever found.

NEW BUILDINGS.

The plumbing inspector, in making up his annual report, has noted the number and kind of new buildings reported at this office, and as a building inspector has been appointed, this part of the annual report will probably be omitted after this-year, as the report of the building inspector should give the following information in a more complete form.

New buildings reported:

Residences	12
Cottage houses or dwellings.....	87
Two-tenement houses	21
Three-tenement houses	15
Six-tenement houses	1
Eight-tenement houses	2
Business blocks, etc.....	11

Total number new buildings reported.....	149
--	-----

Estimated value, about \$650,000.	
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Plumbing fixtures set:

Number of tank water-closets	703
frost-proof water-closets, Kelly & McCulloch.....	21
sinks	497
bathtubs	289
washbowls	262
wash trays	119
urinals	17
Other fixtures not classified above.....	68

Total number of fixtures put in.....	1,976
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Number of plumbing notices filed.....	547
water tests made	453
smoke tests made	13
defects found	403

A total of 1,918 inspections was made of the work during its progress and after its completion.

WILLIAM B. BLAKE.
JOHN F. LOONEY.
CARL O. SEAMAN.

REPORT OF OVERSEERS OF THE POOR.

REPORT OF OVERSEERS OF THE POOR.

MANCHESTER, N. H., December 31, 1899.

To His Honor William C. Clarke, Mayor, and Gentlemen of the City Councils:

In compliance with the ordinance of said city, the overseers of the poor herewith present their annual report for the year 1899:

The whole number of families which have received more or less assistance off the farm during the year has been one hundred and twelve, consisting of two hundred persons, all of whom have a settlement in this city. The whole number of paupers supported at the county farm during the year has been ten more or less of the time, at a cost of two dollars per week for each person, all of whom are insane and incurable.

The whole number of minor children supported at the State Industrial School during the year has been one, at a cost of one dollar and fifty cents per week.

In compliance with sections 1 and 2, chapter 116, Public Statutes of New Hampshire, passed at the January session, 1895, in relation to dependent minor children being supported at almshouses, the said minor children having a settlement in this city are supported as follows: At St. Patrick's Orphans' Home, five. The said minor children have educational advantages.

The overseers of the poor have given ten hundred and fifty orders to the paupers off the farm during the year. The said orders consisted chiefly of orders for groceries, fuel, medicine, board and clothing, care, and emergencies. The whole amount allowed to the several persons who applied for assistance from time to time from the several wards of the city, during the year, was as follows:

Ward 1	\$154.00
Ward 2	556.81
Ward 3	380.49
Ward 4	310.93
Ward 5	2,456.41
Ward 6	362.45
Ward 7	121.83
Ward 8	591.78
Ward 9	1,350.75
Ward 10	296.88
	<hr/>
	\$6,582.33

MISCELLANEOUS BILLS ALLOWED.

Vaccinating seventy-five persons.....	\$25.55	
W. P. Goodman, office supplies.....	31.35	
The John B. Clarke Co., printing.....	19.00	
State Industrial School, board of inmates.....	1,306.72	
		<hr/> \$1,382.62
Total amount allowed		\$7,964.95
Cash received from the county of Hillsborough for board of inmates of State Industrial School, not having a settlement in this state		1,264.78
		<hr/>
Total cost to the city.....		\$6,700.17

There are uncollected bills due the city amounting to \$297.

All of which is respectfully submitted.

Ward 1, WILLIAM H. MAXWELL,

Ward 2, D. G. ANDREWS.

Ward 3, B. F. GARLAND.

Ward 4, CHARLES B. CLARKSON.

Ward 5, PATRICK COSTELLO.

Ward 6, CHARLES FRANCIS.

Ward 7, WILLIAM MARSHALL.

Ward 8, C. S. McKEAN,

Ward 9, JOSEPH DOUCET,

Ward 10, WILLIAM GLOVER.

Overseers of the Poor for the City of Manchester.

A true copy of records. Attest:

WILLIAM H. MAXWELL,

Clerk of the Board.

Aid to Soldiers, Sailors, and their Dependent Families.

To the Mayor and Gentlemen of the City Councils:

In compliance with sections 1 and 2, chapter 81, Laws of the state of New Hampshire, passed at the June session, 1881, in relation to indigent soldiers and sailors of the War of the Rebellion, the overseers of the poor herewith present their annual report under the head "Aid to Soldiers and Sailors and their Dependent Families," for the year 1899.

The whole number of indigent soldiers and sailors who have had more or less assistance during the year has been one, at a cost of \$107.25.

All of which is respectfully submitted.

WILLIAM H. MAXWELL,
D. G. ANDREWS,
B. F. GARLAND,
CHARLES B. CLARKSON,
PATRICK COSTELLO,
CHARLES FRANCIS,
WILLIAM MARSHALL,
JOSEPH DOUCET,
WILLIAM GLOVER,

Overseers of the Poor for the City of Manchester.

A true copy of records. Attest:

WILLIAM H. MAXWELL,
Clerk of the Board.

REPORT OF INSPECTOR OF BUILDINGS

REPORT OF THE INSPECTOR OF BUILDINGS.

MANCHESTER, N. H., December 30, 1899.

To the Honorable Board of Mayor and Aldermen of the City of Manchester:

I herewith submit my report for the portion of the year that I have occupied the office:

When I was chosen to this office, on May 2 last, I found no building rules and it was necessary to formulate a set of rules, which I did, after getting what information I could. I also procured the necessary blanks for doing business and granted the first permit May 17, but it was July 11 when the building rules were finally approved by your honorable body. It was then necessary to have them printed in a handy little book and distribute them among the builders, so it was about July 20 when I was really armed with the proper authority to enforce my building rules.

It has been my aim to establish such rules as would conduce to the protection and safety of life and limb and lessen the chances of fires as much as possible, and also to secure a uniformity in building so that all interested may have an equal chance.

There has not been a large amount of building owing in some measure to the greatly increased price of all kinds of material. I have granted 208 permits in all, to the close of the year. Of these 111 were for new buildings of all kinds and 97 were for alterations and repairs. Some of the jobs under the latter head were quite extensive, notably the street railway car sheds and the Stark Mills storehouse. In the remodeling of buildings there have been added 16 tenements, and in others 8 have been done away with, making a net gain in old buildings of 8 tenements. Of the new buildings 72 have been tenement blocks and houses and dwellings, divided as follows:

8-tenement block	1
4-tenement block	1
3-tenement houses	4
2-tenement houses	15
1-tenement houses	51

Making 105 tenements in new buildings and adding 8 in old buildings, making an increase of 113.

The other buildings erected may be classified as follows:

Stores	2
Lunch room	1

Storage and work room.....	1
Offices	2
Laboratory	1
Dry-house	1
Creamery	1
Shoe factory	1
Print works	1
Purifier and meter room.....	1
Greenhouse	1

The other 38 were barns, sheds, and outbuildings of various kinds and of minor importance.

The Amoskeag Manufacturing Company has erected a mill 101½ x 492 feet, five stories in height above the basement, and is to add to it a section 96 x 153½ feet. This takes the place of two mills that have been demolished and makes an increase in spindles. The Manchester Corporation has erected a new brick laboratory on the west side of the river and has the foundation well under way for a large print works, south of Granite street, which, when completed, will be at least double the capacity of the old one, after which the space now occupied by the Print Works will be used for the manufacture of cloth.

There were quite a number of new buildings started in the spring that were not included in my list, one of the most important of which was the A. D. Gooden block on Elm street south of Central street. It is a substantial three-story brick building and is a great improvement over the wooden buildings which were torn down to make room for the new one.

I found on coming into this office that people were constantly violating the Ordinances in what is called the "Fire district." I have also found a great many places where the woodwork was too near the stovepipe, etc., and am having those things remedied as rapidly as possible. I have ordered some old buildings repaired and others torn down that I considered dangerous.

I have met with some opposition in my work, as there are always some people who will object to the introduction of anything that is new. Others have an idea that a man should be allowed to build what he likes on his own land, not realizing that he might endanger his neighbors' property by so doing. However, I have found most people in favor of a strict enforcement of the rules.

Thanking you for every courtesy, and the counsel and advice you have accorded me, I am,

Very respectfully,

L. M. ALDRICH,

Inspector of Buildings.

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REPORTS

OF THE

TRUSTEES OF CEMETERIES AND CEM-
ETERY FUNDS.

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REPORTS OF THE TRUSTEES OF CEMETERIES AND CEMETERY FUNDS.

Pine Grove Cemetery.

To the Trustees of Cemeteries and the City Councils:

In behalf of the sub-trustees of the Pine Grove cemetery I submit the following report for the year 1899:

No change in the general management of this cemetery was made during the year. The work has been conducted on the same general plan and under the same superintendence as for a number of years last passed. Everything, so far as possible, was done with an eye to permanent improvement, and the sub-trustees feel that the condition and appearance of the grounds are being constantly bettered.

During the year 282 bodies were buried and 22 were removed from one part of the grounds to another. Seventy-seven lots were sold during the year, for which \$3,497.17 were paid to the city treasurer and covered into the treasury with other miscellaneous receipts. In addition to this sum \$4,045.43 were paid by the purchasers of lots under perpetual care into the fund for the care of such lots, and this sum was turned over to the trustees of the cemetery fund and by them invested as the law requires. Also, \$749.90 were paid during the year by owners of common lots to secure perpetual care for the same, and were turned over to the aforesaid trustees. The receipts from interments, removals, water, and labor on common lots were \$3,140.29, which also went into the city treasury as current receipts. The total expended appropriation for 1899 was \$8,538.09, which was the sum paid by the city for all expenses during the year. Against this sum should be credited the amount the city received from the sale of lots, \$3,497.17; and for water, labor, and interments, \$3,140.29; amounting in the aggregate to \$6,637.46, thus leaving the net actual expense to the city for the year the sum of \$1,900.63.

The demand for lots under perpetual care still continues, and the sub-trustees have met this by grading and finishing the remainder of Pine Lawn, which contained seventy-four lots, which are sold for seventy-five cents per square foot, and by completing an addition of twenty-nine lots to Chapel Lawn, of which the price is one dollar per square foot. The lots on Pine Lawn are smaller than those on the

other lawns under perpetual care and are being quite rapidly sold. No section of common lots, not under perpetual care, was prepared during the past year, as there are still enough of such lots unsold to answer to the demand for them.

An extension of fifty feet to the south was made to the public ground or "Field of Manesquo." A considerable length of border was finished in the section just north of the west gate, which was one of the greatest single improvements of the year. The bushes in the woods north of the open part of the cemetery were cleared away and a good deal of filling done in the section to the north of the east gate. Some repairs were made at the superintendent's house and the same was painted. All the iron fence, some of which had never been painted since it was built, was given two coats of paint, lead and oil. This was quite an expensive piece of work, but it was a necessary one in order to preserve the fence, which was rusting rapidly, and the change in the appearance of the fence is very marked.

During the year the trustees of the cemetery fund co-operated with the sub-trustees in the work of macadamizing certain avenues near the lawns under perpetual care. Avenues to the extent of 2,428 square yards were thus built of crushed stone and this improvement will be of lasting benefit. To this work the aforesaid trustees contributed from the fund in their hands the sum of \$500. They also purchased shrubs to the amount of \$100. While these contributions are in the line of expenditure for which the cemetery fund was created, the sub-trustees are deeply grateful to the trustees for their assistance, and doubt not that the public will appreciate their willingness to help along such permanent improvements.

At the Merrill yard little was done beyond keeping the grass cut and preserving a general cleanly appearance. The appropriation was too small for any extended work and the ordinary expenses at this yard are light. A new fence is much needed here, but it can only be built when a larger appropriation is made.

Altogether the sub-trustees deem that the work of 1899 has been well done, and hope that the opinion of the public may coincide with their belief. Certainly this largest of all our cemeteries was never in a better general condition than now, and our people may well take pride in the Pine Grove cemetery so long as its appearance continues as good as it is today.

Respectfully submitted,

EDWIN F. JONES,
Clerk for the Sub-Trustees.

Valley Cemetery.

In behalf of the sub-trustees of the Valley cemetery I wish to make the following report for the year ending December 31, 1899:

The work has been carried on under the same good management of Superintendent C. H. G. Foss as in years past. Improvements have been made as follows:

The two bridges and the summer houses have been painted one coat.

The iron fence around the cemetery has been painted, a part of it two coats.

The grading of the bank on the west side of the valley has been continued.

One hundred thirty yards of concrete have been laid.

One hundred feet of twelve-inch drain pipe has been laid.

Material used: Loam, 86 loads; gravel, 80 loads; manure, 4 cords.

Number of bodies in tomb, 82; number of interments, 69; number of removals, 5.

Cash receipts for:

Care and water	\$1,101.25
Sundries	183.25
Tomb	344.25
Interments	162.50
Removals	9.00
	<hr/>
Paid city treasurer	\$1,800.25
The appropriation for year ending December 31, 1899.....	\$3,000.00
Transferred	75.27
	<hr/>
	\$3,075.27

Respectfully submitted.

S. P. CANNON,

Clerk.

Amoskeag Cemetery.

The sub-trustees of Amoskeag cemetery present the following report for the year 1899:

There have been six burials in the yard the past year. During this period three bodies have been removed.

Twelve trees have been purchased and set out the past season. Six are Carolina poplars and six flowering crabs. This is the first that has been done in this direction to beautify the grounds. More in this line should be done the coming spring.

Besides the regular work of keeping the cemetery in a neat, becoming condition, which has been faithfully done by the superintendent, Mr. George C. Harwood, all the wooden fence has been painted except that on the north side. This fence was not considered worth repairing or painting and it is the opinion of the sub-trustees that it should be replaced by new fence this season. It is several years since a beginning was made in replacing the old wooden fence with one of iron. Now that there is more fence that needs replacing something more should be done. The common council has been asked for an appropriation of a thousand dollars, which is none too much for the work that should be done before another winter.

W. H. HUSE,

Clerk.

TREASURER'S REPORT.

To the Trustees of Cemeteries:

GENTLEMEN,—I herewith present to you the annual report of the money received during the year ending December 30, 1899:

Pine Grove Cemetery.

To cash received for the sale of lots from the following persons, to whom deeds have been delivered:

	Interest.	Price of lot.
Charles P. Still.....	\$0.37	\$50.01
Israel Dow	6.96	166.61
Sylvander S. Davis estate.....		23.46
Frederick Heine .....	.65	61.65
Robert Anderson		57.60
J. Albert Phillips.....	.56	28.07
James H. Pollard.....	.05	31.74
Anna Williams	1.89	28.26
Henry Heatheote		32.49
John G. Hutchinson.....	7.00	33.65
Daniel E. Grant.....		57.60
Julia Etta Lawrence.....		31.63
Isabella Menzies		44.53
Albina Jones		43.95
Lizzie M. Clark.....		32.28
Luther Campbell		60.00
Frank E. Voight.....		24.69
James M. Boone.....	7.35	22.50
Mary E. Simmons.....		48.90
Margaret Markgraf		112.86
William H. Hale.....		73.91
Mary E. Ladd.....		13.50
Jennie F. Doe.....		30.90
Almus W. Morse.....	.12	34.32
Margaret Sawyer .....	.17	43.32
William Watts		6.00
H. and J. R. Fradd.....	.56	95.38
Orpha K. Wilbur.....		38.51
Jennie McLenn .....	.71	57.60

Annie McCauley	\$0.12	\$39.35
Maurice Hoffman .....	.94	28.79
John Hunter .....	.21	31.72
Frank W. Tebbetts		30.89
Franklin F. Sullivan heirs.....	.59	57.60
George B. Shattuck.....	.15	30.00
Ida M. Smith .....	.22	43.11
Mrs. N. J. Darrah .....	.02	18.48
M. C. Badger, Fanny Badger, and S. A. Badger.....	.96	82.91
L. R. Danforth .....	.77	51.88
L. G. Smith .....	.43	28.00
A. H. Hale.....	.43	28.00
A. F. Emerson.....	.43	28.00
John Torrance .....	.11	32.82
Irad Taggart		74.57
Frank W. Kimball.....	.64	44.30
William H. Adams.....	.66	44.59
Mrs. Lucy M. Dustin.....	.25	37.40
W. H. Hayes.....		40.95
George H. Wells.....	.29	29.30
Mrs. James Colby.....	.58	57.60
Lillian M. Small.....	.26	27.95
T. K. Hall .....	.42	44.30
Charles Reuben Bailey.....	.12	44.25
Cyrus L. Austin .....	.44	44.29
Mrs. Fanny E. Brooks.....	.12	27.00
Louis Weck .....	.60	57.60
Mrs. Christof Erverwin.....		43.55
Frank A. Dockham.....	.50	44.25
Mary A. Farmer.....		95.47
Albine Jones and F. A. Buswell.....		30.00
Jonathan C. Quimby.....		60.00
Estate of John Dennison.....		30.75
Lois E. Parsley.....		19.19
Ella McClary Annis.....		60.00
Martha E. Alton.....	.46	30.54
Mary Moir	2.60	20.00
Eben Ferren		125.00
Emma J. Peck.....		42.21
Fred A. Sweatt		45.20
William F. Schonland.....	.60	53.00
Frank X. Foster.....		53.77
William F. Henderson		44.29
Oscar Knoettner		57.60
B. Frank Felch .....	.48	44.29
Edwin F. Jones.....		60.00
James Lightbody		5.70
Totals	\$40.79	\$3,456.38

Interest	\$40.79
Total receipts	\$3,497.17
From B. A. Stearns, superintendent, to cash received for care of lots	3,140.29
	<u>\$6,637.46</u>

CR.

By treasurer's receipts.....	\$3,492.17
superintendent's receipts	3,140.29
cash on hand December 30, 1899.....	5.00
	<u>\$6,637.46</u>

NOTE.—There has been received from lot owners in this cemetery, in addition to the regular receipts of Pine Grove cemetery, as shown in this report, the sum of \$749.90 for perpetual care of lots, also the sum of \$4,045.43 for lots sold on the different lawns. These receipts are credited to the trustees of the cemetery fund, an itemized account of which appears in their annual report.

Valley Cemetery.

To cash received from C. H. G. Foss, superintendent, for care of lots	\$1,800.25
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CR.

By superintendent's receipts	\$1,800.25
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NOTE.—There have been no lots sold in the Valley cemetery during the past year, and the receipts of this cemetery, outside of the money received by the superintendent for the care of lots, have been limited to the funds received by legacy and lot owners for the perpetual care of lots.

The amount received from this source is \$3,283.20, and has been paid to the trustees of the cemetery fund.

Respectfully submitted,

FRED L. ALLEN,

Treasurer of the Trustees of Cemeteries.

I hereby certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of cemeteries, and find the same are correctly cast and properly vouched for.

JAMES E. DODGE,

City Auditor.

To the Trustees of the Cemetery Fund:

GENTLEMEN,—I herewith submit to you the seventeenth annual report of the funds received and expenses paid to December 30, 1899:

Pine Grove Cemetery.

Amount of permanent fund on hand January 1, 1899..... \$42,348.90

RECEIPTS DURING THE YEAR.

From James A. Brigham.....	\$144.00	
Mary Simmons	134.48	
Margaret Markgraf	338.59	
Luther Campbell	165.00	
Frank E. Voight.....	67.90	
H. L. Clough, administrator.....	133.42	
H. & J. R. Fradd.....	286.14	
George B. Shattuck.....	82.50	
Mrs. Douglass Mitchell.....	129.60	
L. R. Danforth	132.68	
A. F. Emerson, A. H. Hale, and L. G. Smith..	231.00	
Cyrus L. Austin.....	100.00	
Israel Dow	458.17	
R. J. Stevens and A. A. Ramsey, executors estate of Charles Young.....	100.00	
Inez G. Fletcher	142.88	
Charles P. Still.....	137.54	
estate of S. S. Davis.....	64.46	
estate of John Dennison.....	84.56	
Lois E. Parsley.....	52.76	
Ella McClary Annis.....	165.00	
Martha E. Alton.....	84.00	
Eben Ferren	375.00	
Fred A. Sweatt.....	124.30	
William H. Hale.....	203.24	
Jennie F. Doe	84.97	
Frances E. Brooks	74.25	
Mary A. Farmer.....	286.39	
Albina Jones and F. P. Buswell.....	82.50	
J. C. Quimby	165.00	
Edwin F. Jones.....	165.00	
	<hr/>	\$4,795.33
Total		\$47,144.23

CR.

By bonds on hand January 1, 1899.....	\$36,050.00	
bonds bought during the year.....	6,000.00	
cash on hand December 30, 1899.....	5,094.23	
	<hr/>	\$47,144.23

INCOME ACCOUNT.

Income on hand January 1, 1899.....	\$3,770.97	
from coupons on bonds	1,907.50	
from savings bank deposits.....	235.20	
	<hr/>	\$5,913.67
Expenses paid during the year:		
L. B. Bodwell & Company.....	\$51.34	
A. K. Hobbs	60.25	
W. J. Hayes & Son, accrued interest and premium on bonds purchased April 24, 1899.....	403.41	
George W. Bailey.....	5.00	
Labor macadamizing, as per pay-roll.....	188.25	
Charles A. Bailey, crushed stone for macadamizing	311.75	
Trustees of Pine Grove cemetery.....	100.00	
B. A. Stearns, superintendent.....	1,067.00	
Cash on hand December 30, 1899.....	3,726.67	
	<hr/>	\$5,913.67

Valley Cemetery.

Amount of permanent fund on hand January 1, 1899..... \$15,280.45

Receipts during the year:

From Fanny B. Pennock.....	\$100.00	
Mrs. J. Schaeffer.....	100.00	
Mrs. Aretas Blood.....	1,000.00	
Mrs. S. M. Langmaid.....	102.00	
Charles H. Bartlett, executor of estate of Mary M. Wells.....	500.00	
Austin M. Everett.....	115.20	
Nancy B. Powell.....	104.80	
Hattie E. Daniels.....	110.40	
Frank E. Green, executor.....	100.00	
J. B. Moorar.....	104.80	
Mrs. Hannah A. Currier.....	500.00	
F. C. Livingston, executor of estate of Mary J. Haynes	200.00	
Mrs. B. H. Piper.....	120.00	
Anna Custer, executor.....	126.00	
	<hr/>	3,283.20
Total		\$18,563.65

CR.

By bonds on hand January 1, 1899.....	\$13,500.00	
bonds purchased during year.....	2,000.00	
cash on hand December 30, 1899.....	3,063.65	
	<hr/>	\$18,563.65

INCOME ACCOUNT.

Income on hand January 1, 1899.....	\$1,796.84	
from coupons on bonds.....	710.00	
from interest on bank deposits.....	123.05	
		\$2,629.89
Expenses paid during the year:		
W. J. Hayes & Son, accrued interest and premium on bonds purchased April 28, 1899.....	\$140.31	
B. F. & R. W. Welch.....	5.00	
C. H. G. Foss, superintendent.....	361.50	
Cash on hand December 30, 1899.....	2,123.08	
		\$2,629.89

GALE FUND, VALLEY CEMETERY.

Income January 1, 1899.....	\$109.97	
Interest from savings bank.....	3.90	
Interest from fund.....	10.64	
		\$124.51

CR.

By cash paid C. H. G. Foss.....	\$6.00	
cash on hand December 30, 1899.....	118.51	
		\$124.51

Merrill Cemetery.

Amount of permanent fund January 1, 1899.....	\$487.89
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CR.

By bonds on hand January 1, 1899.....	\$450.00	
cash on hand December 30, 1899.....	37.89	
		\$487.89

INCOME ACCOUNT.

Income on hand January 1, 1899.....	\$91.26	
on savings bank deposit.....	8.46	
Interest on bonds.....	22.50	
		\$122.22

CR.

By cash on hand December 30, 1899.....	\$122.22
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Respectfully submitted.

FRED L. ALLEN,

Treasurer of the Trustees of Cemetery Funds.

This is to certify that I have examined the books of accounts of Fred L. Allen, treasurer of the trustees of the cemetery funds, embracing the receipts and expenditures for the year 1899, and I find the same correct and properly vouched. I have also examined the securities in which said fund is invested and find as follows:

PINE GROVE CEMETERY.

20 city of Manchester 5 per cent bonds (Nos. 1, 2, 3, 5, 6, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 22, 23, 24); due in 1942; denomination, \$1,000 each.....	\$20,000.00
2 city of Manchester 5 per cent bonds (Nos. 1, 3); due in 1942; denomination, \$500 each.....	1,000.00
1 city of Manchester 5 per cent bond (No. 3).....	50.00
14 city of Manchester 5 per cent bonds (Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17); due in 1913; denomination, \$1,000 each.....	14,000.00
1 city of Manchester 5 per cent bond (No. 2); due in 1913	500.00
5 city of Manchester 5 per cent bonds (Nos. 1, 2, 3, 9, 10); due in 1913; denomination, \$100 each.....	500.00
6 city of Manchester 3½ per cent bonds (Nos. 94, 95, 96, 97, 98, 99); due in 1919; denomination, \$1,000 each	6,000.00
	<hr/> \$42,050.00
Cash on deposit in Manchester Savings Bank, Book No. 50220	\$5,298.35
Cash on deposit in Mechanics Savings Bank, Book No. 3413	3,522.55
	<hr/>
Total cash income and permanent fund.....	8,820.90
Total permanent fund and income, December 30, 1899...	\$50,870.90

VALLEY CEMETERY.

4 city of Manchester 5 per cent bonds (Nos. 1, 6, 11, 18); due in 1913; denomination, \$1,000 each....	\$4,000.00
1 city of Manchester 5 per cent bond (No. 1); due in 1913; denomination, \$500.....	500.00
3 city of Manchester 5 per cent bonds (Nos. 6, 7, 8); due in 1913; denomination, \$100 each.....	300.00
8 city of Manchester 5 per cent bonds (Nos. 4, 7, 12, 19, 20, 21, 25, 27); due in 1942; denomination, \$1,000 each	8,000.00
2 city of Manchester 5 per cent bonds (Nos. 2, 4); due in 1942; denomination, \$50 each.....	100.00
2 city of Manchester 3½ per cent bonds (Nos. 81, 100); due in 1919; denomination, \$1,000 each.....	2,000.00
6 city of Manchester 5 per cent bonds (Nos. 3, 4, 5, 6, 7, 8); due in 1942; denomination, \$100 each..	600.00
Cash on deposit in Guaranty Savings Bank, Book No. 4257	5,186.73
	<hr/>
Total permanent fund and income, December 30, 1899....	\$20,686.73

MERRILL CEMETERY.

2 city of Manchester 5 per cent bonds (Nos. 4, 5); due in 1913; denomination, \$100 each.....	\$200.00
2 city of Manchester 5 per cent bonds (Nos. 1, 2); due in 1942; denomination, \$100 each.....	200.00
1 city of Manchester 5 per cent bond (No. 1); due in 1942; denomination, \$50.....	50.00
Cash on deposit in Guaranty Savings Bank, Book No. 5116	160.11
Total amount of fund and income, December 30, 1899....	<u>\$610.11</u>

GALE FUND.

Cash on hand in Amoskeag Savings Bank. Book No. 34108...	<u>\$118.51</u>
Total amount of permanent fund and income on hand December 30, 1899.....	\$72,286.25

JAMES E. DODGE,
City Auditor.

REPORT
OF THE
TRUSTEES OF THE SINKING FUND.

REPORT OF THE TRUSTEES OF THE SINKING FUND.

MANCHESTER, N. H., January 15, 1900.

To the City Councils of the City of Manchester:

GENTLEMEN,—As required by chapter 37, section 2, of the City Ordinances of Manchester, the trustees of the sinking funds of the city of Manchester herewith report the condition of the several funds January 1, 1900, with receipts and payments for the year ending December 30, 1899.

H. P. SIMPSON,
ALPHEUS GAY,
FRED L. ALLEN.

Trustees of the Sinking Fund.

TREASURER'S REPORT.

To the City Councils of the City of Manchester:

GENTLEMEN,—I herewith transmit to you my report as treasurer of the sinking fund for the year ending December 30, 1899:

IMPROVEMENT LOAN.

DR.

Total amount of fund January 1, 1899, for the payment of improvement bonds.....	\$74,799.90	
Appropriation for 1899.....	20,000.00	
Income from interest on bonds.....	2,977.50	
Income from savings bank deposit.....	44.84	
		\$97,822.24

CR.

By bonds on hand January 1, 1899.....	\$74,000.00
Bonds bought during the year.....	19,000.00
Accrued interest and premium for same.....	1,355.07

Keene National Bank, balance paid for premium and interest for exchange of \$15,000 of city of Manchester 4 per cent bonds, due July, 1900, for \$15,000 of city of Manchester 3½ per cent bonds, due April 1, 1919.....	\$1,041.53	
Cash on hand December 30, 1899.....	2,425.64	
		<u>\$97,822.24</u>

WATER LOAN.

Dr.

Total amount of fund January 1, 1899, for the payment of water bonds.....	\$105,417.42	
Water-works, hydrant service, 1899.....	18,100.00	
Appropriation, 1899	5,000.00	
Income from interest on bonds.....	4,245.00	
Income from savings bank deposit.....	79.36	
		<u>\$132,841.78</u>

Cr.

By bonds on hand January 1, 1899.....	\$102,000.00	
Bonds bought during the year.....	23,000.00	
Premium and interest for same.....	1,613.81	
Cash on hand December 30, 1899.....	6,227.97	
		<u>\$132,841.78</u>

SCHOOL LOAN.

Dr.

Total amount of fund January, 1899.....	\$3,939.43	
Appropriation, 1899	2,000.00	
Interest on bonds.....	140.00	
		<u>\$6,079.43</u>

Cr.

Bonds on hand December 30, 1899.....	\$3,000.00	
Cash on hand	3,079.43	
		<u>\$6,079.43</u>

Respectfully submitted.

FRED L. ALLEN,

Treasurer Sinking Fund.

This is to certify that I have examined the books of accounts of Fred L. Allen, treasurer of the trustees of the sinking fund, embracing the receipts and expenditures for the year ending December 30, 1899, and find the same correct and properly vouched. I have also examined the securities in which fund is invested, and find as follows:

For the payment of improvement bonds.

Bonds of the city of Manchester, N. H.:

4 per cent, due 1908.....	\$10,000.00
4 per cent, due 1913.....	5,000.00
4 per cent, due 1914.....	5,000.00
4 per cent, due 1915.....	23,000.00

4 per cent, due 1917.....	\$16,000.00	
3½ per cent, due 1919.....	34,000.00	
Cash on hand December 30, 1899.....	2,425.64	
	<hr/>	\$95,425.64

For the payment of water bonds.

Bonds of the city of Manchester, N. H.:

4 per cent, due 1900.....	\$2,000.00	
4 per cent, due 1909.....	10,000.00	
4 per cent, due 1910.....	6,000.00	
4 per cent, due 1913.....	10,000.00	
4 per cent, due 1914.....	18,000.00	
4 per cent, due 1915.....	17,000.00	
4 per cent, due 1916.....	11,000.00	
4 per cent, due 1917.....	22,000.00	
3½ per cent, due 1919.....	23,000.00	
United States bonds, 5 per cent, due 1904.....	6,000.00	
Cash on hand December 30, 1899.....	6,227.97	
	<hr/>	\$131,227.97

For the payment of school bonds.

Bonds of the city of Manchester, N. H.:

4 per cent, due 1914.....	\$2,000.00	
4 per cent, due 1916.....	1,000.00	
Cash on hand December 30, 1899.....	3,079.43	
	<hr/>	\$6,079.43

Total amount of bonds and cash in sinking fund Decem- ber 30, 1899	\$232,733.04
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JAMES E. DODGE,
City Auditor.

GAS LIGHTS, OIL LAMPS, AND ELEC-
TRIC LIGHTS.

GAS LIGHTS, OIL LAMPS, AND ELECTRIC LIGHTS.

Gas Lights in Use.

- No. 1. Clarke and Chestnut.
2. Appleton, west end.
3. Blodget and Chestnut.
4. Orange and Chestnut.
5. Orange, between Chestnut and Elm.
6. Bridge, between Chestnut and Elm.
7. Pearl and Walnut.
8. Orange and Walnut.
9. Orange and Beech.
10. Pearl and Maple.
11. Arlington, near Maple.
12. Lowell and South.
13. Concord and Belmont.
14. Amherst and Belmont.
15. Concord and Beacon.
16. Lowell and Beacon.
17. East High and Belmont.
18. East High and Maple.
19. Belmont and Central.
20. Willow and Merrill.
21. Auburn and Franklin.
22. One light on State.
23. Turner, near Walker.
24. Milford and Bowman.
25. Milford and Williams.
26. Douglas.
27. Dover and Granite.
28. Mechanic, near Elm.
29. Blodget, near Elm.
30. Monroe, near Elm.
31. Manchester and Belmont.
32. Summer and Belmont.
33. Ainsworth avenue and Hayward.
34. Jewett, near Hayward.
35. Jewett, near Young road.

36. Hancock.
37. Hancock, near Brown avenue.
38. Brown avenue and Shasta.
39. Brown avenue and Byron.
40. A and B streets.
41. George, near Milford.
42. Mast road, near Riddle.
43. Granite and Quincy.
44. Douglas and Quincy.
45. Douglas and Dover.
46. Douglas and Turner.
47. Pleasant, near Canal.
48. Pleasant, near Franklin.
49. Amherst and Dutton.
50. Walnut, near Bridge.
51. Nutfield and Londonderry lanes.
52. Nutfield and Derryfield lanes.

Oil Lights in Use

Goffe's Falls,	17 lights.
Beacon street,	1 light.
Massabesic street,	1 light.
Taylor street,	2 lights.
Young road,	1 light.
Mammoth road,	3 lights.
Candia road,	16 lights.
Pond road,	4 lights.
Hanover street,	4 lights.
Total,	49 lights.

Electric Lights in Use.

No. 1. A, near B,	arm.
2. A and South Main,	"
3. Adams and Cartier,	pole.
4. Amherst and Elm,	arm.
5. Amherst and Vinc,	"
6. Amherst and Chestnut,	"
7. Amherst and Pine,	"
8. Amherst and Union,	"
9. Amherst and Beech,	"
10. Amherst and Ash,	"
11. Amherst and Maple,	"
12. Amherst and Lincoln,	"
13. Amherst and Ashland,	"

No. 14.	Amherst and Hall,	arm.
15.	Amory and Main,	pole.
16.	Amory and Beauport,	"
17.	Amory and Rimmon,	"
18.	Amory and Amory street extension,	arm.
19.	Amory, near Montgomery,	"
20.	Amory and Alsace,	"
21.	Amory and Essex,	"
22.	Amory and Morgan,	"
23.	Amoskeag bridge, west,	pole.
24.	Amoskeag bridge, east,	"
25.	Amoskeag and Front,	"
26.	Appleton and Elm,	arm.
27.	Appleton and North Adams,	pole.
28.	Appleton and Union,	arm.
29.	Arlington and Russell,	"
30.	Arlington and Warren,	"
31.	Arlington and Ashland,	"
32.	Auburn and Elm,	"
33.	Auburn and Chestnut,	"
34.	Auburn and Pine,	"
35.	Auburn and Union,	pole.
36.	Auburn and Beech,	"
37.	Auburn and Maple,	"
38.	Auburn and Wilson,	arm.
39.	Auger avenue and Nutt road,	"
40.	Baker and Brown avenue,	"
41.	Baker and Elm,	"
42.	Bath and Second,	pole.
43.	Beech and Portsmouth Railroad,	arm.
44.	Beech and Lawrence Railroad,	"
45.	Bell and Wentworth,	"
46.	Blaine and Main,	"
47.	Blaine and Second,	"
48.	Blaine and Third,	"
49.	Blodget and Elm back street,	"
50.	Blodget and Pine,	"
51.	Blodget and Union,	"
52.	Blodget and Walnut,	"
53.	Blodget and Ash,	"
54.	Bow and Bartlett,	pole.
55.	Boynton,	arm.
56.	Bowman place and Tilton,	"
57.	Bowman, near Milford,	"
58.	Bremer and Dubuque,	"
59.	Bridge and McGregor,	"
60.	Bridge and Canal,	"

No. 61.	Bridge and Elm,	arm.
62.	Bridge and Chestnut,	"
63.	Bridge and Pine,	"
64.	Bridge and Union,	"
65.	Bridge and Walnut,	"
66.	Bridge and Beech,	"
67.	Bridge and Ash,	"
68.	Bridge and Maple,	"
69.	Bridge and Nashua,	"
70.	Bridge and Linden,	"
71.	Bridge and Hall,	"
72.	Bridge and Belmont,	"
73.	Bridge and Highlands,	"
74.	Brown avenue and Elm,	"
75.	Brown avenue, near Tannery,	"
76.	Brook and Elm,	"
77.	Brook and Chestnut,	"
78.	Brook and Pine,	"
79.	Brook and Hazel,	pole.
80.	Brook and Union,	arm.
81.	Brook and Beech,	"
82.	Brook and Maple,	pole.
83.	C and B,	"
84.	Candia road and Mammoth road,	arm.
85.	Carpenter and Elm,	"
86.	Carpenter and Union,	"
87.	Cedar and Canal,	"
88.	Cedar and Elm,	"
89.	Cedar and Chestnut,	"
90.	Cedar and Pine,	"
91.	Cedar and Union,	"
92.	Cedar and Beech,	"
93.	Cedar and Lincoln,	"
94.	Cedar, near Maple,	"
95.	Central and Bedford,	"
96.	Central street hill,	pole.
97.	Central and Elm,	arm.
98.	Central and Chestnut,	"
99.	Central and Pine,	"
100.	Central and Union,	"
101.	Central and Beech,	"
102.	Central and Maple,	"
103.	Central and Lincoln,	"
104.	Central and Wilson,	"
105.	Central and Hall,	"
106.	Central, near Cass,	"
107.	Charles,	"

No. 108.	Charleston avenue and Carroll,	arm.
109.	Chestnut and Ray Brook,	"
110.	Clarke and River road,	"
111.	Clarke and Elm,	"
112.	Clarke and Union,	"
113.	Clinton and Dover,	"
114.	Conant and Beauport,	"
115.	Conant and Rimmon,	pole.
116.	Conant and Montgomery,	arm.
117.	Concord and Vine,	"
118.	Concord and Chestnut,	"
119.	Concord and Pine,	"
120.	Concord and Union,	"
121.	Concord and Walnut,	"
122.	Concord and Beech,	"
123.	Concord and Maple,	"
124.	Concord and Dutton,	"
125.	Concord and Derry,	pole.
126.	Concord and Ashland,	arm.
127.	Concord and Hall,	"
128.	Concord square, east,	pole.
129.	Concord square, west,	"
130.	Coolidge avenue, near Kelly,	arm.
131.	Dean and Canal,	pole.
132.	Dean and Elm,	arm.
133.	Dean avenue and Elm west back,	"
134.	Dearborn and Taylor,	"
135.	Depot and Canal,	pole.
136.	Depot and Franklin,	arm.
137.	Derryfield Park,	"
138.	Douglas and Railroad,	pole.
139.	Douglas and Barr,	arm.
140.	Douglas and West,	pole.
141.	Douglas and Main,	arm.
142.	Dunbarton road and Front,	"
143.	East High and Nashua,	"
144.	East High and South,	"
145.	East High and Malvern,	"
146.	East High and Ashland,	"
147.	East High and Hall,	"
148.	East High and Buzzell,	"
149.	East Spruce and Barry avenue,	"
150.	East Spruce and Union,	"
151.	East Spruce and Beech,	"
152.	East Spruce and Maple,	"
153.	East Spruce and Lincoln,	"
154.	East Spruce and Wilson,	"

No. 155.	East Spruce and Beacon,	arm.
156.	Elm and Ray Brook,	"
157.	Elm, below Railroad bridge,	"
158.	Elm avenue and Elm,	"
159.	Elm and Portsmouth Railroad.	pole.
160.	Ferry and Main,	arm.
161.	Ferry and Third,	"
162.	Ferry and Turner,	"
163.	Front, Amoskeag,	pole.
164.	Gates and Dubuque,	"
165.	Goffstown road and Front,	"
166.	Grove and Pine,	arm.
167.	Grove and Union,	"
168.	Grove and Beech,	"
169.	Grove and Belmont,	"
170.	Granite and Green,	"
171.	Granite and West,	"
172.	Granite and Main,	"
173.	Granite and Second,	"
174.	Granite bridge, west,	pole.
175.	Granite bridge, center,	"
176.	Granite bridge, east,	"
177.	Granite and State,	arm.
178.	Granite and Bedford,	"
179.	Granite and Canal,	pole.
180.	Granite and Franklin,	arm.
181.	Green and Elm,	"
182.	Green and Pine,	"
183.	Green and Beech,	"
184.	Hancock and Brown avenue,	pole.
185.	Hanover square,	"
186.	Hanover and Nutfield lane,	arm.
187.	Hanover and Chestnut,	"
188.	Hanover and Pine,	"
189.	Hanover and Union,	"
190.	Hanover and Beech,	"
191.	Hanover and Maple,	"
192.	Hanover and Lincoln,	"
193.	Hanover and Ashland,	"
194.	Hanover and Hall,	"
195.	Hanover and Belmont,	"
196.	Hanover and Beacon,	"
197.	Hanover and Highlands,	pole.
198.	Hanover and Grant,	arm.
199.	Hanover and Page,	"
200.	Harrison and Elm,	"
201.	Harrison and Chestnut,	"
202.	Harrison and Pine,	"

No. 203.	Harrison and Hazel,	arm.
204.	Harrison and Walnut,	"
205.	Harrison and Beech,	"
206.	Harrison and Ash,	"
207.	Harrison and Maple,	"
208.	Harrison and Oak,	"
209.	Harrison and Russell,	"
210.	Harvell and South Main,	"
211.	Hayward and Beech,	"
212.	Hayward and Cypress,	"
213.	High and Chestnut,	"
214.	High and Pine,	"
215.	High and Union,	"
216.	Hollis and Canal,	pole.
217.	Hospital avenue and Massabesic,	"
218.	Kelly and Rimmon,	arm.
219.	Kelly and Cartier,	"
220.	Kelly and Alsace,	"
221.	Kidder and Boyden,	pole.
222.	Kidder and Whitney,	"
223.	Kidder and Elm,	arm.
224.	Lake avenue and Elm,	"
225.	Lake avenue and Chestnut,	"
226.	Lake avenue and Pine,	"
227.	Lake avenue and Union,	"
228.	Lake avenue and Beech,	"
229.	Lake avenue and Maple,	"
230.	Lake avenue and Lincoln,	"
231.	Lake avenue and Wilson,	"
232.	Lake avenue and Massabesic,	"
233.	Lake avenue and Beacon,	"
234.	Lake avenue, near Cass,	"
235.	Lake avenue and Cass,	pole.
236.	Lake avenue and Canton,	"
237.	Lake avenue and Hall road,	"
238.	Langdon and Canal,	arm.
239.	Langdon,	pole.
240.	Laurel and Laurel avenue,	arm.
241.	Laurel and Pine,	"
242.	Laurel and Union,	"
243.	Laurel and Beech,	"
244.	Laurel and Maple,	"
245.	Laurel and Lincoln,	"
246.	Laurel and Wilson,	"
247.	Laurel and Hall,	"
248.	Laurel and Belmont,	"
249.	Laurel and Milton,	"

No. 250.	Laurel and Beacon.	arm.
251.		
252.	Liberty, below Webster,	"
253.	Lowell south back and Nutfield lane,	"
254.	Lowell and Elm,	"
255.	Lowell and Birch,	"
256.	Lowell and Chestnut,	"
257.	Lowell and Pine,	"
258.	Lowell and Union,	"
259.	Lowell and Walnut,	"
260.	Lowell and Beech,	"
261.	Lowell and Ash,	"
262.	Lowell and Nashua,	"
263.	Lowell and Malvern,	"
264.	Lowell and Ashland,	"
265.	Lowell and Hall,	"
266.	Lowell and Belmont,	"
267.	Manchester and Elm,	"
268.	Manchester and Chestnut,	"
269.	Manchester and Pine,	"
270.	Manchester and Union,	"
271.	Manchester and Beech,	"
272.	Manchester and Maple,	"
273.	Manchester and Lincoln,	"
274.	Manchester and Wilson,	"
275.	Manchester and Hall,	"
276.	Manchester and Milton,	pole.
277.	Marion and Main,	"
278.	Marion and McGregor,	arm.
279.	Market and Canal,	"
280.	Market and Franklin,	"
281.	Market and Elm,	"
282.	Massabesic and Belmont,	pole.
283.	Massabesic and Old Falls road,	"
284.	Massabesic and Cypress,	arm.
285.	Massabesic and Hall road,	"
286.	Mast and Main,	pole.
287.	Mast and Bowman,	arm.
288.	Mast and Riddle,	pole.
289.	Mast and New Mast road,	arm.
290.	Mast and Forrest,	"
291.	McGregor and Main,	pole.
292.	McGregor bridge, west,	"
293.	McGregor bridge, east,	"
294.	Mechanic and Canal,	arm.
295.	Mechanic and Elm west back,	"
296.	Merrimack and Canal,	"
297.	Merrimack and Franklin west back,	"

No. 298.	Merrimack and Franklin,	arm.
299.	Merrimack and Elm,	"
300.	Merrimack and Chestnut,	"
301.	Merrimack and Pine,	"
302.	Merrimack and Union,	"
303.	Merrimack and Beech,	"
304.	Merrimack and Maple,	"
305.	Merrimack and Lincoln,	"
306.	Merrimack and Wilson,	"
307.	Merrimack and Hall,	"
308.	Merrimack and Belmont,	"
309.	Merrimack and Beacon,	"
310.	Merrimack, east of Beacon,	"
311.	Merrimack square, west,	pole.
312.	Merrimack square, east,	"
313.	Middle and Canal,	arm.
314.	Middle and Franklin west back,	"
315.	Milford, near cemetery,	"
316.	Milford and Bismarck.	"
317.	Milford and Carroll,	"
318.	Milford and Riddle.	"
319.	Milford and Main,	"
320.	Mitchell and Beech,	"
321.	Monmouth and McGregor back street,	pole.
322.	Monroe and River road,	arm.
323.	Myrtle and Elm east back,	"
324.	Myrtle and Chestnut,	"
325.	Myrtle and Pine,	"
326.	Myrtle and Union,	"
327.	Myrtle and Walnut,	"
328.	Myrtle and Beech,	"
329.	Myrtle and Maple,	"
330.	Myrtle and Russell,	"
331.	Myrtle, near Belmont,	"
332.	Myrtle, near Hall,	"
333.	New Mast road and D,	"
334.	New Mast road and Wilkins,	pole.
335.	North and River road,	arm.
336.	North and Elm,	"
337.	North and Bay,	"
338.	North and Chestnut,	"
339.	North and Pine,	pole.
340.	North and Union,	' arm.
341.	North and Walnut,	"
342.	North Main in Eddy,	pole.
343.	North Adams and Ray Brook,	arm.
344.	Nutfield lane, rear Central fire station,	"
345.	Nutt road and Beech,	"

No. 346.	Nutt road and Portsmouth Railroad,	pole.
347.	Orange and Elm,	arm.
348.	Orange and Pine,	"
349.	Orange and Union,	"
350.	Orange and Ash,	
351.	Orange and Oak,	"
352.	Orange and Linden,	"
353.	Orange and Hall,	pole.
354.	Page and Portsmouth Railroad,	arm.
355.	Park square,	pole.
356.	Parker and West,	arm.
357.	Pearl and Elm east back,	"
358.	Pearl and Chestnut,	"
359.	Pearl and Pine,	"
360.	Pearl and Union,	"
361.	Pearl and Beech,	"
362.	Pearl and Oak,	"
363.	Pearl and Russell,	
364.	Pearl and Linden,	"
365.	Pearl and Morrison,	pole.
366.	Pearl and Belmont,	arm.
367.	Pennacook and Canal,	pole.
368.	Pennacook and Elm,	arm.
369.	Pennacook and Chestnut,	pole.
370.	Pennacook and Pine,	arm.
371.	Pennacook and Union,	"
372.	Pleasant and Franklin,	"
373.	Prescott and Wilson,	"
374.	Prince and Boynton,	"
375.	Prospect and Elm east back,	"
376.	Prospect and Chestnut,	"
377.	Prospect and Pine,	"
378.	Prospect and Union,	"
379.	Prospect and Ash,	"
380.	Prospect and Oak,	"
381.	Prospect and Linden,	"
382.	Prospect, near Hall,	"
383.	Putnam and Main,	"
384.	Putnam and Cartier,	"
385.	Putnam and Bartlett,	pole.
386.	Rowell and River road,	arm.
387.	River road, near Otis,	"
388.	River road and Stark park,	"
389.	Sagamore and Pine,	"
390.	Sagamore and Walnut,	"
391.	Salmon and Canal,	"
392.	Salmon and Elm,	"
393.	Salmon and Chestnut,	pole.

No. 394.	Salmon and Pine,	pole.
395.	Salmon and Union,	"
396.	Salmon and Beech,	arm.
397.	School and Turner,	"
398.	School and Third,	"
399.	Schiller and Second,	"
400.	Schuyler and Main,	pole.
401.	Shasta and Elm,	arm.
402.	Silver and Union,	"
403.	Silver and Beech,	"
404.	Silver and Lincoln,	"
405.	Silver and Wilson,	"
406.	Somerville and Jewett,	"
407.	Spring and Canal,	"
408.	Spring and Elm west back,	"
409.	Spruce and Elm,	"
410.	Spruce and Chestnut west back,	"
411.	Spruce south back and Elm east back,	pole.
412.	Stark and Canal,	arm.
413.	Stark and back street,	"
414.	Summer and State,	pole.
415.	Thornton and Sullivan,	arm.
416.	Tremont square,	pole.
417.	Union, near Campbell,	arm.
418.	State east back,	"
419.	State, south of Granite,	"
420.	State, north of Granite,	"
421.	Sullivan and Beauport,	pole.
422.	Sullivan and Main,	"
423.	Summer and Dearborn,	arm.
424.	Summer and Hall,	"
425.	Valley and Elm,	"
426.	Valley and Pine,	pole.
427.	Valley and Union,	arm.
428.	Valley and Wilson,	"
429.	Valley and Belmont,	"
430.	Valley and Taylor,	"
431.	Valley and Cypress,	"
432.	Valley and Jewett,	pole.
433.	Vinton and Taylor,	arm.
434.	Walker and Main,	"
435.	Walker and Fourth,	"
436.	Walker and Second,	"
437.	Walker and Turner,	pole.
438.	Washington and Church,	arm.
439.	Water,	"
440.	Water and Elm,	"
441.	Wayne and McGregor,	pole.

No. 442.	Wayne and Main,	arm.
443.	Wayne and Beauport,	pole.
444.	Wayne and Dubuque,	arm.
445.	Webster and River road,	pole.
446.	Webster and Elm,	arm.
447.	Webster and Chestnut,	"
448.	Webster and Pine,	"
449.	Webster and Walnut,	pole.
450.	Welch avenue and Calef road,	"
451.	West Hancock and Second,	"
452.	West Hancock and Dartmouth,	arm.
453.	West Hancock and South Main,	"
454.	Whitford and Union,	"
455.	Wilton and Main,	"
456.	Winter,	"
457.	Winter and Parker,	"
458.	Winter place and Elm west back,	"
459.	Young and Taylor,	"
460.	Young and Ainsworth avenue,	"
461.	Young and Mammoth road,	"
462.	Cedar and Franklin,	"
463.	Laurel north back and Union,	"
464.	Clarke and North Adams,	"
465.	Prospect and Beech,	"
466.	McDuffie and Huntress,	"
467.	Hanover and Alfred,	"

REPORT OF THE MILK INSPECTOR.

REPORT OF THE MILK INSPECTOR.

*To His Honor the Mayor and Board of Aldermen of the City of Manchester,
N. H.:*

In compliance with the ordinance of said city the milk inspector herewith presents his annual report for the year ending January 31, 1900:

I have inspected 115 samples of milk and in most cases found them to be up to the standard, viz., 13 per cent milk solids.

The dealers whose milk did not prove satisfactory I immediately notified, calling their attention to the same, and found on later inspection a noticeable improvement in the quality of milk sold by them.

Number of licenses issued to dealers conveying milk by carriage and otherwise for purposes of sale, 121.

Amount of money received and turned over to the city treasurer, \$60.50.

Property of the city held by the inspector at present is as follows: City records, milk grip, 10 pint cans, 1 lactoscope, 1 thermometer, 2 glass cylinders for cream tests, etc., 2 specific gravity scales, 1 pipette, and odd pieces of chemical apparatus.

JOSEPH H. GEISEL,
Inspector of Milk.

REPORT OF THE CITY SOLICITOR.

REPORT OF THE CITY SOLICITOR.

To the City Councils:

I beg to submit my report as solicitor for the year 1899:

The cases of Fletcher and of Wilkins against the city, claims for damages, caused by the laying out of Cypress street, have been settled.

Cross against the city has also been settled.

Horne against Manchester was taken from the docket.

The cases of Boire, Bresnehan, Greaney, Kendrigan, Sheehan, Stanton, and Turcotte, counsel having withdrawn, have also been taken from the docket.

Hill against Manchester was heard before Mr. George C. Gilmore as referee, and judgment against the city was rendered upon his report.

During the year the Amoskeag Manufacturing Company filed a petition for an abatement of part of the taxes assessed upon its property for the year 1899.

Levi Page entered suit for alleged damages to his real estate, caused by laying out Readey street.

P. E. Sheehan entered an action for damages caused by alleged defect in highway.

C. F. Lambert also brought action to recover alleged damages for sheep killed by dogs.

The Amoskeag tax case of 1897 is still pending before the full bench of the supreme court upon questions of law.

GEORGE A. WAGNER,
City Solicitor.

JANUARY 2, 1900.



REPORT OF THE CITY AUDITOR.

REPORT OF THE CITY AUDITOR.

To the Board of Mayor and Aldermen:

GENTLEMEN,—The auditor herewith submits to your honorable body his report, giving a tabular statement of the receipts and expenditures for the year 1899, and a detailed statement of the expenses of each appropriation during the year.

Respectfully,

JAMES E. DODGE,

City Auditor.

REPORT OF THE CITY TREASURER.

	Dr.
To Dunsecomb & Jennison, temporary loan.....	\$50,000.00
New England Trust Company, temporary loan.....	150,000.00
W. J. Hayes & Son, city funding loan bonds.....	100,000.00
W. J. Hayes & Son, premium on bonds.....	6,031.00
E. C. Smith, rent of city hall.....	16.00
E. C. Smith, sewer licenses.....	1,954.49
E. C. Smith, show licenses	770.00
E. C. Smith, dog licenses.....	1,471.75
E. C. Smith, rent of tenements.....	343.89
E. C. Smith, billiard and pool licenses.....	222.85
E. C. Smith, lunch cart licenses.....	18.00
E. C. Smith, fees, marriage licenses.....	582.00
E. C. Smith, fees, mortgages.....	198.28
E. C. Smith, fees, sales.....	132.25
E. C. Smith, fees, miscellaneous records.....	19.25
E. C. Smith, fees, partnerships.....	7.75
E. C. Smith, fees, corporations.....	20.50
E. C. Smith, fees, writs.....	37.00
M. J. Healy, police department.....	54,449.01
John C. Bickford, police department.....	1,401.84
Fred L. Allen, treasurer, Pine Grove cemetery.....	3,492.17
B. A. Stearns, superintendent Pine Grove cemetery..	3,140.29
C. H. G. Foss, superintendent Valley cemetery.....	1,800.25
George E. Morrill, collector, old taxes.....	501.38
George E. Morrill, collector, taxes of 1898.....	52,294.66
George E. Morrill, collector, taxes of 1899.....	552,759.54
George E. Morrill, collector, abatement of taxes, 1898	437.59

To George E. Morrill, collector, abatement of taxes, 1899	\$1,464.81
George E. Morrill, collector, interest on taxes, 1898....	1,381.85
George E. Morrill, redemption of land sold for taxes, 1896	1,566.48
George E. Morrill, redemption of land sold for taxes, 1897	1,649.65
George E. Morrill, redemption of land sold for taxes, 1898	1,295.75
George E. Morrill, final payment of interest from Com- monwealth Bank, account deposits in 1893.....	107.10
Solon A. Carter, state treasurer, insurance tax.....	3,137.25
Solon A. Carter, state treasurer, railroad tax.....	29,832.61
Solon A. Carter, state treasurer, savings bank tax....	48,880.91
Solon A. Carter, state treasurer, literary fund.....	3,352.74
A. F. Precourt, milk licenses.....	11.50
A. B. Eaton, city scales.....	58.48
George Kain, city scales.....	165.70
Gilbert Lyons, city scales.....	129.65
W. E. Buck, tuition.....	735.35
W. E. Buck, free text-books.....	186.66
Charles K. Walker, superintendent water-works.....	133,436.41
E. C. Libbey, superintendent city farm.....	4,752.95
county of Hillsborough, paupers off farm.....	1,264.51
Manchester National Bank, interest on deposits....	155.65
Amoskeag National Bank, interest on deposits.....	154.97
First National Bank, interest on deposits.....	722.82
George E. Morrill, collector, interest on deposits.....	642.50
town of Londonderry, school tax.....	50.24
county of Hillsborough, coal for court house.....	32.71
John B. Varick Co.....	3.65
J. S. Holt & Co., overdraft.....	.50
Frank O. Day, fire department horse, "Cox".....	60.00
board of health.....	4.00
John B. Varick Co., overdraft.....	43.17
street and park commission.....	273.02
Manchester Water-Works	7.00
Brown & Titus, overdraft.....	101.88
trustees of cemetery fund.....	100.00
Miville & Deschenes, overdraft.....	3.85
Boston Book Binding Company, overdraft.....	20.54
Commonwealth National Bank, final payment, interest	590.85
M. W. F. Club, use of lights, High school.....	6.00
Total receipts for year 1899.....	\$1,218,485.45
Cash on hand January 1, 1899.....	128,419.71
Unpaid bills December 30, 1899.....	19,726.35
	<u>\$1,366,631.51</u>

	Cr.
By January draft	\$45,690.33
February draft	44,412.21
March draft	45,354.21
April draft	139,174.11
May draft	46,838.30
June draft	73,401.86
July draft	116,342.23
August draft	64,716.04
September draft	133,108.94
October draft	78,756.09
November draft	339,242.24
December draft	61,424.49
Total drafts for year 1899.....	\$1,188,461.05
Unpaid bills January 1, 1899.....	13,212.23
Cash on hand December 30, 1899.....	164,958.23
	<u>\$1,366,631.51</u>

Respectfully submitted,

FRED L. ALLEN,
City Treasurer.

To the City Councils of the City of Manchester, N. H.:

GENTLEMEN,—I have examined the accounts of Fred L. Allen, city treasurer, for the year ending December 30, 1899, and find proper vouchers for all payments, and all receipts duly accounted for.

The net cash on hand January 1, 1899, was.....	\$115,207.48
Receipts during the year.....	1,218,485.45
Total	<u>\$1,333,692.93</u>
Amount of drafts during the year.....	\$1,188,461.05
Net cash on hand December 30, 1899.....	145,231.88
Total	<u>\$1,333,692.93</u>

The cash balance taken December 30, 1899, I find to be as follows:

Deposited in Suffolk National Bank, coupon interest account	\$20,036.00
Deposited in First National Bank.....	135,963.42
Deposited in office safe.....	8,958.81
Gross amount of cash on hand December 30, 1899.....	\$164,958.23
Deduct amount of bills unpaid.....	19,726.35
Net cash on hand December 30, 1899.....	<u>\$145,231.88</u>

Respectfully submitted, together with a tabular statement of the receipts and expenditures of the city for the year 1899.

JAMES E. DODGE,
City Auditor.

STATEMENT OF THE RECEIPTS AND EXPENDITURES OF THE CITY OF MANCHESTER FOR THE YEAR 1899.

RECEIPTS.

CENTRAL DEPARTMENT.

Received from:

Direct city taxes.....	\$607,457.98	
Cost and interest on taxes.....	1,381.85	
		\$608,839.83
Licenses to enter sewer.....	\$1,954.49	
to keep dog	1,471.75	
to sell milk	11.50	
to keep billiard and pool tables, and lunch carts	240.85	
to shows and exhibitions.....	770.00	
Fees from city clerk,	997.03	
		\$5,445.62
Rents		\$359.89

SUNDRIES.

Received from:

City scales	\$353.83	
Miscellaneous sources	436.62	
		\$790.45

SCHOOL DEPARTMENT.

Received from text-books and tuition.....	\$922.01
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POLICE DEPARTMENT.

Received from fines and costs.....	\$55,850.85
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PUBLIC PLACES.

Received from:

Pine Grove cemetery.....	\$6,632.46	
Valley cemetery	1,800.25	
		\$8,432.71

WATER-WORKS.

Gross receipts	\$133,436.41
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CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

Received from:

City farm	\$4,752.95	
Hillsborough county, boarding paupers and Industrial School inmates	1,264.51	
		\$6,017.46

MISCELLANEOUS.

Received from:

Interest	\$2,373.89	
Land redeemed from tax sale.....	4,511.88	
Trustees cemetery fund	100.00	
Overdrafts	169.94	
	<hr/>	\$7,155.71
Total ordinary receipts during the year 1899.....		\$827,250.94

TEMPORARY LOAN.

Received from loans in anticipation of tax of 1899.....	\$200,000.00
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STATE.

Received from:

Insurance taxes	\$3,137.23	
Railroad taxes	29,832.61	
Savings bank taxes.....	48,880.91	
Literary fund	3,352.74	
	<hr/>	\$85,203.51

DEBT.

Received from:

Bonds sold	\$100,000.00	
Premiums on bonds sold.....	6,031.00	
	<hr/>	\$106,031.00

Gross receipts	\$1,218,485.45
Net cash on hand January 1. 1899.....	115,207.48
	<hr/>
	<hr/>
	\$1,333,692.93

EXPENDITURES.

CENTRAL DEPARTMENT.

Interest on water bonds.....	\$39,551.00	
on city bonds	39,688.00	
on cemetery bonds	2,500.00	
on temporary loan, anticipation tax,		
1899	2,862.28	
	<hr/>	\$84,601.28
City hall	\$3,850.94	
Printing and stationery.....	1,565.21	
Incidental expenses	5,971.99	
Mayor's incidentals	256.30	
City officers' salaries	19,956.54	
Auditor's department	1,966.72	
Sinking fund trustees	22,000.00	
File and index system.....	644.74	
Land sold for taxes.....	6,176.95	
	<hr/>	\$62,389.39

STREET AND SEWER DEPARTMENT.

Street and park commission.....	\$3,422.00	
Snow and ice.....	7,727.63	
Repairs of highways.....	22,146.59	
New highways	5,562.66	
Land taken for highways.....	5,124.52	
Watering streets	3,713.95	
Paving streets	5,337.64	
Macadamizing streets	11,394.75	
Grading for concrete	3,113.72	
Scavenger service	17,633.29	
Street sweeping	2,250.42	
Lighting streets	55,649.58	
Bridges	2,527.27	
City teams	7,352.76	
Repairs of sewers	4,579.42	
New sewers	20,416.66	
South Manchester playground.....	133.68	
	<hr/>	\$178,086.54

ENGINEER'S DEPARTMENT.

Engineer's department	\$5,249.98
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HEALTH DEPARTMENT.

Health department	\$4,594.25
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SCHOOL DEPARTMENT.

Repairs of schoolhouses	\$6,499.57	
Fuel	7,563.18	
Furniture and supplies.....	1,258.29	
Books and stationery.....	48.45	
Printing and advertising.....	267.88	
Contingent expenses	2,687.54	
Care of rooms	6,380.25	
Evening schools	1,181.65	
Teachers' salaries	89,440.81	
Evening school, mechanical drawing.....	190.72	
Free text-books	4,995.65	
Manual training	600.00	
New boilers, Training school and Main-street	800.00	
Furnishing room High school.....	178.00	
	<hr/>	\$122,091.99

CITY LIBRARY.

City library	\$5,354.02
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EXPENDITURES.

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FIRE DEPARTMENT.

Fire department	\$65,087.58	
Fire-alarm telegraph	1,136.44	
Hydrant service	18,100.00	
	<hr/>	\$84,324.02

POLICE DEPARTMENT.

Police station	\$2,484.34	
Police court	2,938.94	
Police commission	39,003.87	
	<hr/>	\$44,427.15

PUBLIC BUILDINGS.

Repairs of buildings	\$5,084.48	
New schoolhouse, Amoskeag	894.66	
Pearl-street schoolhouse repairs.....	33.75	
Board of plumbing examiners	100.00	
	<hr/>	\$6,112.89

WATER-WORKS.

Water-works	\$50,659.13	
Water-works sinking fund	23,100.00	
	<hr/>	\$73,759.13

PUBLIC PLACES.

Commons	\$4,358.59	
Stark park	518.51	
Derryfield park	1,033.81	
Pine Grove cemetery	8,638.09	
Valley cemetery	3,075.37	
Amoskeag cemetery	202.65	
Merrill yard	5.75	
	<hr/>	\$17,832.77

CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

Paupers off farm	\$7,956.49	
City farm	8,302.74	
Indigent soldiers	110.50	
Women's Aid Home	300.00	
Sacred Heart Hospital.....	300.00	
Free beds, Elliot Hospital	300.00	
Emergency ward, Elliot Hospital.....	75.00	
Free beds, Notre Dame de Lourdes Hospital...	300.00	
Decoration of soldiers' graves.....	368.40	
Militia	900.00	
Band concerts	377.01	
	<hr/>	\$19,290.14

ABATEMENTS.

Abatement of taxes.....	\$1,902.40
Total of ordinary municipal expenditures.....	\$710,015.95

TEMPORARY LOAN.

Temporary loan made in anticipation of tax for 1899....	\$200,000.00
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BONDED DEBT.

School bonds	\$10,000.00	
Bridge bonds	25,000.00	
Notes	110,000.00	
		\$145,000.00

STATE AND COUNTY TAXES.

State tax	\$57,991.25	
County tax	75,453.85	
		\$133,445.10

Grand total of expenditure during the year.....	\$1,188,461.05
Cash on hand December 31, 1899.....	\$164,958.23
Less unpaid bills	19,726.35

Net cash on hand.....	145,231.88
	<u>\$1,333,692.93</u>

Interest.

Appropriation	\$45,500.00	
Transferred from water-works account.....	39,551.00	
		\$85,051.00

EXPENDITURES.

Amoskeag National Bank, interest on \$50,000 note, six months	\$875.00
Dunscomb & Jennison, discount on two notes of \$25,000 each	914.37
Manchester Savings Bank, interest on \$50,000 note, six months	875.00
New England Trust Company, discount on \$150,000, five months, twenty days.....	1,947.91
Coupons on city bonds.....	6,742.50
Coupons on city funding bonds.....	1,207.50
Coupons on cemetery bonds.....	2,500.00
Coupons on Granite-bridge bonds.....	3,020.00
Coupons on improvement bonds.....	16,200.00

Coupons on McGregor bridge bonds.....	\$2,408.00	
Coupons on schoolhouse bonds	8,360.00	
Coupons on water bonds.....	39,551.00	
		<hr/>
Total expenditures		\$84,601.28
Transferred to unappropriated money account.....		449.72
		<hr/>
		<u>\$85,051.00</u>

Payment of Funded Debt.

Appropriation	\$45,000.00	
Received from sale of bonds.....	100,000.00	
		<hr/>
		<u>\$145,000.00</u>

EXPENDITURES.

Amoskeag National Bank	\$50,000.00	
Manchester Savings Bank	50,000.00	
Manchester National Bank.....	10,000.00	
Bridge bonds	25,000.00	
Schoolhouse bonds	10,000.00	
		<hr/>
		<u>\$145,000.00</u>

Sinking Fund.

Appropriation	\$22,000.00
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EXPENDITURES.

Trustees of sinking fund	\$22,000.00
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Unappropriated Money.

Appropriation	\$21,000.00
Transferred from the following accounts:	
Interest	449.72
Printing and stationery.....	434.79
City officers' salaries	2,043.46
Mayor's incidentals	43.70
Auditor's department	33.28
Street and park commission.....	78.00
Snow and ice	2,272.37
Watering streets	286.05
Street sweeping	249.58

Grading for concrete	\$1,886.28
Repairs of sewers	522.46
Engineer's department	150.02
Health department	214.92
Fire department	912.42
Fire-alarm telegraph	363.56
Police station	315.66
Police commission	996.13
Furnishing rooms at High school.....	172.00
Merrill yard	44.25
Repairs of schoolhouses .....	.43
Fuel	2,004.98
Furniture and supplies	41.71
Books and stationery	51.55
Printing and advertising.....	32.12
Contingent expenses	12.46
Care of rooms	119.75
Evening schools	18.35
Evening school, mechanical drawing.....	209.28
Free text-books	4.35
Paupers off farm	1,043.51
Indigent soldiers	39.50
Emergency ward, Elliot Hospital.....	125.00
Decoration of soldiers' graves.....	31.60
Abatement of taxes.....	97.60
Band concerts	22.99
	<hr/>
	<u><u>\$36,323.83</u></u>

EXPENDITURES.

Transferred to the following accounts:

City hall	\$1,350.94
Land sold for taxes.....	976.95
Incidental expenses	471.99
Repairs of highways	2,146.59
New highways	1,062.66
Land taken for highways.....	2,267.75
Paving streets	337.64
Macadamizing streets	1,387.75
Scavenger service	2,633.29
Bridges	27.27
City teams	852.76
New sewers	416.66
Lighting streets	74.58
Stark park	18.51
Derryfield park	33.81
South Manchester playground	13.81
Commons	358.59
Police court	38.94

Repairs of buildings	\$419.49	
Valley cemetery	75.37	
Amoskeag cemetery	2.65	
Pine Grove cemetery	38.09	
Teachers' salaries	272.21	
City farm	298.89	
State tax .....	.25	
Garbage incineration	293.85	
Contingent expenses	1,700.00	
Fire alarm telegraph	500.00	
Board of plumbing examiners.....	100.00	
Repairs of schoolhouses.....	1,000.00	
Balance carried to new account.....	17,152.54	
		<u>\$36,323.83</u>

Temporary Loan.

RECEIPTS.

Dunscomb & Jennison	\$50,000.00	
New England Trust Company	150,000.00	
		<u>\$200,000.00</u>

EXPENDITURES.

First National Bank, note due December 6, 1899	\$50,000.00	✓
New England Trust Company, notes due December 12, 1899	150,000.00	
		<u>\$200,000.00</u>

City Hall.

Appropriation	\$2,500.00	
Transferred from unappropriated money.....	1,350.94	
		<u>\$3,850.94</u>

EXPENDITURES.

FUEL AND LIGHTS.

L. B. Bodwell & Co., wood.....	\$4.50	
L. B. Bodwell & Co., 136,080 lbs. coal.....	331.09	
Manchester Coal & Ice Co., 42 tons, 275 lbs. coal	242.25	
Manchester Electric Co., electric lights.....	176.55	
People's Gas Light Co., gas.....	121.10	
Union Electric Co., electric lights.....	292.13	
		<u>\$1,167.62</u>

WATER AND TELEPHONE.

Manchester Water-Works, use of water.....	\$597.75	
New England Telephone & Telegraph Co., use of telephones	72.00	
	<hr/>	\$669.75

CLEANING OFFICES, ETC.

T. F. Hannaford, brooms.....	\$3.50	
Mary Nolan, cleaning offices.....	311.00	
Oscar Perkins, janitor.....	624.00	
Timothy P. Shea, janitor public comfort....	440.00	
John B. Varick Co., mop stick, waste, etc....	4.77	
	<hr/>	\$1,383.27

FURNITURE, FIXTURES, SUPPLIES.

Clark M. Bailey, toilet paper.....	\$3.50	
R. D. Gay, 1 fixture.....	.50	
James W. Hill Co., bunting, shades.....	34.67	
James W. Hill Co., hanging and repairing awnings	31.70	
C. A. Hoitt & Co., 1 desk, inspector of buildings	25.00	
C. A. Hoitt & Co., 1 pedestal and jardiniere, mayor	8.50	
C. A. Hoitt & Co., mat, chairs, tables, etc.....	15.89	
Kimball & Hobbs, hose	2.50	
Manchester Electric Co., lamps.....	10.25	
Manchester Mills, soap.....	7.00	
G. E. Wentworth, sweepers.....	9.00	
J. H. Wiggin & Co., matches, soap.....	4.00	
	<hr/>	\$152.51

INCIDENTAL REPAIRS.

J. J. Abbott, paint, glass, labor.....	\$45.32	
L. M. Aldrich & Co., lumber and labor.....	13.20	
E. M. Bryant & Co., switch, labor.....	1.98	
E. W. Bunton, seating chairs.....	6.50	
Head & Dowst Co., labor, etc.....	4.06	
C. A. Hoitt & Co., repairing chair.....	.50	
George Holbrook, repairing door, damaged by runaway horse	22.00	
George Holbrook, material and labor.....	7.50	
T. A. Lane Co., plumbing, electric light re- pairs, etc.	43.82	
C. S. McKean, repairing chairs, etc.....	16.10	
Pike & Heald Co., plumbing repairs, etc.....	9.20	
Pike & Heald Co., taking down awnings, etc.	10.33	
Harry A. Piper, material and labor.....	11.67	

B. F. Shepard, repairing locks.....	\$2.55	
Byron Smith, caning chairs.....	2.00	
T. P. Shea, repairing key.....	.10	
Sanborn Carriage Co., 1 slide bar blade.....	1.00	
Stendorfer Bronzing Co., bronzing radiators, etc.	119.00	
C. A. Trefethen, repairing clock.....	1.00	
John B. Varick Co., shovel, dustpan, steel, etc.	2.76	
John K. Wilson, lumber and labor.....	5.10	
C. L. Wolf, plumbing repairs.....	12.90	
		<hr/>
		\$338.59

SUNDRIES.

W. G. Berry, insurance premium.....	\$32.45	
John A. Sheehan, insurance premium.....	50.00	
Stark & Blanchet, insurance premium.....	30.00	
F. H. Thurston, paste and germol.....	26.75	
		<hr/>
		\$139.20
		<hr/>
Total expenditures		<u>\$3,850.94</u>

Printing and Stationery.

Appropriation	<u>\$2,000.00</u>
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EXPENDITURES.

ASSESSORS AND INSPECTORS.

John B. Clarke Co., printing postals, circulars, checklists	\$84.75	
John B. Clarke Co., advertising notice.....	17.00	
Temple & Farrington Co., blank books, pencils, etc.	74.05	
Union Publishing Co., advertising notice.....	14.09	
		<hr/>
		\$189.89

TAX COLLECTOR.

E. R. Coburn Co., receipts.....	\$8.00	
John B. Clarke Co., printing tax bills.....	45.25	
Temple & Farrington Co., book and stationery	1.76	
		<hr/>
		\$55.01

CITY CLERK.

John B. Clarke Co., printing ballots, blanks, etc.	\$81.95	
John B. Clarke Co., printing blank books.....	31.50	
John B. Clarke Co., binding manuals.....	52.50	

E. R. Coburn Co., envelopes.....	\$2.00	
Nate Kellogg Co., printing receipts.....	2.00	
Novelty Advertising Co., printing postals, etc.	5.00	
Novelty Advertising Co., rubber stamps.....	2.90	
Temple & Farrington Co., stationery.....	5.00	
		<hr/>
		\$182.85

AUDITOR.

John B. Clarke Co., printing blanks and bill-heads	\$21.50	
John B. Clarke Co., printing 800 reports.....	711.55	
John B. Clarke Co., printing, binding, lettering 150 reports.....	207.40	
		<hr/>
		\$940.45

CITY TREASURER.

John B. Clarke Co., printing blanks.....	\$6.00	
John B. Clarke Co., binding pay-rolls.....	4.00	
Nate Kellogg Co., printing resolution, receipts	5.75	
Temple & Farrington Co., 50 ruled sheets....	3.00	
		<hr/>
		\$18.75

MAYOR.

John B. Clarke Co., printing pamphlets and slips	\$20.75	
John B. Clarke Co., postals and notices.....	6.00	
E. R. Coburn Co., stationery.....	6.95	
Nate Kellogg Co., order books.....	7.25	
Temple & Farrington Co., stationery.....	15.25	
		<hr/>
		\$56.20

CITY COUNCILS AND COMMITTEES.

John B. Clarke Co., printing blanks, envelopes, permits, applications, etc.....	\$99.31	
W. E. Moore, printing brief, Amoskeag Manufacturing Company v. City.....	18.00	
J. Arthur Williams, printing blanks.....	1.75	
		<hr/>
		\$119.06

SUNDRIES.

R. Bechard, printing blanks, weigher.....	\$3.00	
Total expenditures	\$1,565.21	
Transferred to unappropriated money account.....	434.79	
		<hr/>
		\$2,000.00
		<hr/>

Incidental Expenses.

Appropriation	\$5,500.00	
Transferred from unappropriated money account	471.99	
		<u>\$5,971.99</u>

EXPENDITURES.

BIRTHS, MARRIAGES, DEATHS.

O. D. Abbott, M. D.....	\$5.00
D. S. Adams, M. D.....	4.00
E. B. Aldrich, M. D.....	.25
H. W. Boutwell, M. D.....	4.25
A. A. E. Brien, M. D.....	21.50
J. F. Brown, M. D.....	1.50
J. S. Brown, M. D.....	2.50
F. A. Babbitt, M. D.....	.25
Lillian G. Bullock, M. D.....	.75
H. W. Burnham, M. D.....	.25
Rev. C. A. Bidwell.....	2.00
Rev. F. S. Bacon.....	5.75
Rev. Charles R. Bailey.....	.50
Rev. M. W. Borthwick.....	1.00
Rev. Andreas Carlsson.....	2.75
Rev. J. A. Chevalier.....	11.50
Rev. N. L. Colby.....	13.50
Rev. T. E. Clapp.....	1.25
Rev. C. R. Crossett.....	1.00
Rev. Matthew Creamer	1.25
I. L. Carpenter, M. D.....	9.00
Charles Chirurg, M. D.....	2.50
James M. Collity, M. D.....	11.00
Charles Corey, M. D.....	.50
Mary Danforth, M. D.....	5.25
G. M. Davis, M. D.....	4.25
R. H. Dillon, M. D.....	6.25
Charles E. Dodge, M. D.....	4.00
Clarence M. Dodge, M. D.....	7.00
John F. Dowd, M. D.....	2.75
Henry Duchene, M. D.....	1.75
E. B. Dunbar, M. D.....	8.75
J. A. DeGross, M. D.....	.25
Rev. I. H. C. Davignon.....	18.25
Rev. Charles W. Dockrill.....	1.00
Rev. Thomas Dorion .....	.50
John Ferguson, M. D.....	4.75
John Ferguson, Jr., M. D.....	2.25

C. F. Flanders, M. D.....	\$25.50
George Frechette, M. D.....	4.00
L. M. French, M. D.....	3.50
E. N. Fugere, M. D.....	18.25
Emdon Fritz, M. D.....	.50
S. J. Girouard, M. D.....	4.75
J. H. Gleason, M. D.....	4.75
Moise Guerin, M. D.....	3.50
M. S. Guggenheim, M. D.....	1.25
Rev. Uldoric Godin.....	2.00
Rev. C. R. Hennon.....	19.50
Rev. P. Hevey.....	8.75
Thomas C. Hill, M. D.....	1.50
G. W. Hazelton, M. D.....	.25
B. F. Hodsdon, M. D.....	1.50
J. A. Jackson, M. D.....	7.00
Rev. W. N. Jones.....	3.00
M. E. Kean, M. D.....	8.25
P. G. Laberge, M. D.....	11.25
J. E. Larochelle, M. D.....	21.75
J. E. A. Lanouette, M. D.....	18.50
J. E. Lemaitre, M. D.....	10.50
J. D. Lemay, M. D.....	11.00
H. D. Lord	4.25
Rev. P. Lawrence.....	3.00
Rev. J. J. Lyons.....	5.00
Rev. B. W. Lockhart.....	3.25
J. W. D. MacDonald, M. D.....	26.25
J. W. Mooar, M. D.....	.50
G. B. Morey, M. D.....	3.50
M. V. B. Morse, M. D.....	.75
J. T. Murray, M. D.....	3.50
Mrs. S. Modin.....	.25
Rev. Edwin Morrell.....	1.25
Rev. W. H. Morrison.....	7.00
Rev. W. C. McAllister.....	4.50
Rev. E. A. Nelson.....	.75
Clara Odman	3.25
William M. Parsons, M. D.....	1.00
C. A. Palmer, M. D.....	.50
W. H. Pattee, M. D.....	2.00
Frederick Perkins, M. D.....	7.00
Anna Pollmer	8.75
Rev. O. D. Patch.....	1.25
J. F. Robinson, M. D.....	3.25
C. S. Rodier, M. D.....	20.00
J. E. E. Roy, M. D.....	2.50

William Richardson, M. D.....	\$1.00	
Rev. C. W. Rowley.....	6.00	
Rev. J. A. Roy .....	.25	
Rev. C. J. Staples .....	.50	
Serville St. Pierre, M. D.....	15.50	
Gillis Stark, M. D.....	12.50	
F. C. Steuart, M. D.....	5.00	
A. G. Straw, M. D.....	.75	
Zatae L. Straw, M. D.....	6.50	
C. B. Sturtevant, M. D.....	4.50	
J. Sullivan, M. D.....	2.75	
Emile Sylvain, M. D.....	9.75	
E. C. Smith	496.25	
Rev. Irad Taggart.....	1.00	
W. F. Templeton, M. D.....	.75	
A. J. Todd, M. D.....	1.25	
George D. Towne, M. D.....	1.75	
E. C. Tremblay, M. D.....	35.00	
L. Tremblay, M. D.....	1.00	
G. M. Watson, M. D.....	5.25	
H. P. Watson, M. D.....	2.50	
G. L. Wakefield, M. D.....	2.00	
A. F. Wheat, M. D.....	5.00	
Rev. E. C. Zimmermann.....	1.25	
	<hr/>	\$1,092.73

DAMAGES AND JUDGMENTS.

Florence G. Everett, one half cost fence between land and Pearl-street schoolhouse lot	\$23.80	
John H. Riedell, settlement of suit.....	3.02	
Gustave Theuner, damage caused by drainage	250.00	
Mary Cressey and Hannah Young, damage caused by water from highway.....	23.75	
	<hr/>	\$300.57

LEGAL EXPENSES.

Dana W. King, copying deeds.....	\$1.62	
Edwin F. Jones, time, services, and expenses, preparation argument at Concord before committee on apportionment, on matter of doorage	100.00	
Thomas D. Luce, printing argument, certifying appeals, etc.....	13.00	
	<hr/>	\$114.62

CITY COUNCILS AND COMMITTEES.

Fred L. Allen, expenses to Concord, Boston, New York	\$35.87
Fred L. Allen, telegrams, express, stamps.....	7.15

American Bank Note Co., engraving and printing bonds	\$75.00	
John B. Clarke Co., advertising notices and proposals	29.33	
Daniels & Downs, typewriting.....	11.50	
James E. Dodge, expenses to Boston, delivering bonds	2.50	
A. J. Lane Co., bonds for city officials.....	361.25	
A. J. Lané, revenue stamps.....	2.00	
Union Publishing Co., publishing notices.....	79.49	
		<hr/>
		\$604.09

TEAMS FOR COUNCILS AND COMMITTEES.

G. W. Bailey	\$70.00	
J. P. Brown & Co.....	30.00	
J. P. Brown	5.00	
Boyd Brothers	16.50	
Thomas Brown	5.00	
Joseph Breault	5.00	
Henry Cote	15.00	
W. J. Freeman	30.00	
C. S. Fifield	45.00	
A. L. Gadbois & Co.....	10.00	
Fred E. James	50.50	
Kean & Sheehan	20.00	
Manchester Street Railway, 47 book tickets....	117.50	
John F. Murphy	30.00	
C. C. Perry	15.00	
G. W. Reed	35.75	
C. H. Simpson.....	15.00	
B. F. & R. W. Welch.....	32.50	
G. E. Wheeler.....	20.00	
		<hr/>
		\$567.75

CITY LIBRARY.

John A. Barker, care of boiler.....	\$81.00	
J. K. Rhodes, care of boiler.....	50.25	
		<hr/>
		\$131.25

STREETS.

L. M. Aldrich & Co., signs.....	\$11.60	
F. S. Bodwell, stone bounds	82.50	
R. G. Chase & Co., trees.....	57.35	
D. Juneau, setting trees.....	26.25	
Joseph St. Laurent, 35 tree boxes.....	52.50	
Metal Stamping Co., signs.....	2.76	

Harry A. Piper, signs.....	\$9.58	
C. H. Wood, painting signs.....	106.00	
		<hr/>
		\$348.54

CITY SCALES.

C. B. Clarkson, weighing coal.....	\$8.00	
C. A. Hoitt & Co., cuspidors.....	1.30	
E. W. Poore, wood and coal.....	12.00	
Temple & Farrington Co., books and stationery	16.03	
C. A. Trefethen, 1 clock.....	2.25	
John B. Varick Co., 1 ax and handle.....	.90	
		<hr/>
		\$40.48

MILK INSPECTOR.

John B. Clarke Co., advertising notice.....	\$12.25	
W. P. Goodman, books.....	1.35	
		<hr/>
		\$13.60

MAYOR.

E. R. Coburn Co., stationery.....	\$3.00	
W. C. Clarke, 1 pad.....	.50	
W. P. Goodman, stationery.....	8.60	
W. P. Goodman, directories.....	50.00	
C. A. Hoitt & Co., chimneys.....	.20	
The Smith Premier Typewriter Co., 1 type- writer, less discount and old machine re- turned	52.75	
The Smith Premier Typewriter Co., 12 ribbons	7.00	
Temple & Farrington Co., books and stationery	1.05	
		<hr/>
		\$123.10

TAX COLLECTOR.

Blanche E. Bullock, 6 days' labor.....	\$15.00	
E. R. Coburn Co., books.....	2.50	
John B. Clarke Co., advertising notice.....	23.02	
John B. Clarke Co., 1,000 wrappers.....	10.00	
Co-operative Printing Co., stamp, ink.....	1.65	
Grace E. Downer, typewriting.....	3.00	
"Independent Statesman," advertising notice..	6.75	
O. D. Knox, postmaster, stamped envelopes....	63.60	
George E. Morrill, distributing tax bills.....	88.65	
Margie H. Stevens, 12 days' labor.....	30.00	
		<hr/>
		\$244.17

CITY CLERK.

John B. Clarke Co., binding marriage certificates	\$54.25	
John B. Clarke Co., printing.....	2.75	
E. R. Coburn Co., books, cards, ribbon.....	40.25	
W. P. Goodman, stationery.....	26.70	
E. C. Smith, obtaining and inserting names of children omitted from records.....	434.50	
E. C. Smith, office supplies.....	33.25	
A. J. Smith, typewriter ribbons.....	4.00	
Temple & Farrington Co., blank books.....	13.20	
C. H. Wood, lettering box.....	.50	
	<hr/>	\$609.40

CITY TREASURER.

Amoskeag National Bank, safe deposit box...	\$25.00	
D. J. Adams, 1 seal.....	3.00	
T. S. Buck, 1 stamp.....	1.55	
Alvah Bushnell Co., 12 wallets.....	1.40	
Curtis, Guild & Co., one month's subscription, "Commercial Bulletin" .....	.40	
Grace E. Downer, typewriting.....	4.30	
W. P. Goodman, books and stationery.....	21.93	
The J. C. Hall Co., checks.....	18.25	
A. E. Martell & Co., letter and deposit book....	8.50	
Temple & Farrington Co., stationery.....	4.36	
	<hr/>	\$88.69

COURT HOUSE.

Clark M. Bailey, brooms.....	\$2.00	
L. B. Bodwell & Co., 72,090 lbs. coal.....	175.35	
P. H. Riley, janitor.....	498.00	
B. F. Shepard, sharpening mower, fixing keys, etc.	4.45	
Timothy P. Shea, janitor	45.00	
	<hr/>	\$724.80

ASSESSORS.

John F. Gillis, furnishing transfers of real estate	\$12.00	
People's Gas Light Co., 1 mantle.....	.45	
Temple & Farrington Co., books and stationery	14.59	
	<hr/>	\$27.04

SUNDRIES.

American Express Co., express on reports.....	\$5.70
L. M. Aldrich, stationery and postage.....	7.13
L. M. Aldrich, expenses to Worcester.....	3.24
L. M. Aldrich, use of team eight months.....	100.00
W. G. Berry, insurance premium.....	\$4.60
F. S. Bodwell, stone bounds	\$4.00
Charles Boisclair, labor, pencils, etc., election..	3.65
E. R. Coburn Co., stationery, supervisors' check- lists	1.62
City Government Publishing Co., subscriptions to "City Government"	6.00
B. A. Callaghan, typewriting for building in- spector	2.10
Orin T. Clark, sheep killed by dogs.....	11.20
C. B. Clarkson, weighing coal.....	58.00
L. M. Cogswell, paid for postage.....	4.30
J. X. Duval, hens and chickens killed by dogs	16.20
Arthur B. Dickey, supplies as ward clerk.....	5.82
Louise B. Foster, typewriting, solicitor.....	.25
Archie Falconer, hens and chickens killed by dogs	7.95
First Light Battery, firing national salute, July 4	44.12
First Light Battery, firing salute, New York reception to Admiral Dewey.....	27.25
First Light Battery, firing salute, Admiral Dewey passing through city	27.25
Town of Goffstown, taxes.....	1.94
W. P. Goodman, record book, ward 10.....	3.50
William P. Hall, jury box, ward 10.....	2.00
W. F. Hart, music furnished Sheridan Guards' reception	55.00
John H. Hayes, supplies furnished as ward clerk	5.25
O. D. Knox, postmaster, stamps.....	185.60
David Lovering, chickens killed by dogs.....	13.50
W. E. Lovering, sheep killed by dogs.....	31.00
J. H. Mendell & Co., lumber and labor, ward 2	3.54
Manchester Hardware Co., hardware.....	83
F. Morin, use of hall, ward 10 election.....	15.50
Stephen Maloney, erecting voting booths, ward 5	2.00
Moore & Preston, wood, ward 2 ward room....	12.00
New England Telephone & Telegraph Co., use of telephone	36.65
Edward N. Pearson, engrossing act.....	1.50

G. W. Reed, use of pung, engineer.....	\$1.50	
Gillis Stark, M. D., visits, sundry persons, police station	24.00	
E. C. Smith, expenses, 2 days in Boston.....	7.00	
E. C. Smith, freight and transportation, card index	4.58	
Ezra S. Stearns, engrossing acts, etc.....	10.25	
Silas I. Spragne, chickens killed by dogs.....	2.00	
John B. Varick Co., brooms, shovels.....	2.25	
G. A. Wagner, expenses to Concord.....	8.97	
John M. Woodbridge, chickens killed by dogs..	10.40	
		<u>\$941.14</u>
Total expenditures		<u><u>\$5,971.99</u></u>

City Officers' Salaries.

Appropriation	<u><u>\$22,000.00</u></u>
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EXPENDITURES.

CENTRAL DEPARTMENT.

William C. Clarke, mayor.....	\$1,800.00	
Fred L. Allen, treasurer.....	1,237.50	
Edward C. Smith, clerk.....	1,012.50	
George A. Wagner, solicitor.....	800.00	
George L. Stearns, clerk common council.....	200.00	
Thomas W. Lane, building inspector.....	25.00	
L. M. Aldrich, building inspector.....	533.32	
John A. Barker, messenger.....	699.98	
Archie F. Precourt, milk inspector.....	25.00	
J. H. Geisel, milk inspector.....	275.00	
Asa B. Eaton, weigher.....	33.33	
George Kain, weigher	204.44	
Gilbert Lyons, weigher	144.44	
Blanche E. Bullock, treasurer's clerk.....	540.00	
Florence Kidder Everett, city clerk's clerk....	470.00	
Maude Young, mayor's clerk.....	544.50	
Florence A. Robinson, city clerk's clerk.....	40.00	
Florence James, temporary clerk for mayor...	7.00	
Mabel Tolles, temporary clerk for mayor.....	15.00	
Florence Walsh, temporary clerk for mayor...	25.50	
A. J. Lane Co., services of stenographer, mayor	1.50	
W. C. Clarke, paid for stenographer's services	1.50	
		<u>\$8,635.51</u>

CITY PHYSICIAN AND OVERSEERS OF THE POOR.

Frederick Perkins, M. D., city physician.....	\$600.00	
W. H. Maxwell, ward 1.....	25.00	
D. G. Andrews, ward 2.....	25.00	
Benjamin F. Garland, ward 3.....	25.00	
Charles B. Clarkson, ward 4.....	25.00	
Patrick Costello, ward 5.....	25.00	
Charles Francis, ward 6.....	25.00	
William Marshall, ward 7.....	25.00	
Charles S. McKean, ward 8.....	25.00	
Joseph Doucet, ward 9.....	25.00	
William Glover, ward 10.....	16.16	
William C. Clarke, chairman <i>ex officio</i>	25.00	
W. H. Maxwell, clerk.....	100.00	
Judith Sherer, matron pesthouse.....	360.00	
		<hr/>
		\$1,326.16

SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

W. E. Buck, superintendent of schools.....	\$2,300.00	
Curtis W. Davis, truant officer.....	750.00	
E. B. Woodbury, clerk of board.....	50.00	
Elliott C. Lambert, clerk of board.....	100.00	
W. C. Clarke, chairman <i>ex officio</i>	10.00	
Harry T. Lord, president of common council, <i>ex officio</i>	10.00	
Walter B. Heath, ward 1.....	10.00	
Elliott C. Lambert, ward 1.....	10.00	
Charles H. Manning, ward 2.....	10.00	
Elmer E. Nutting, ward 2.....	10.00	
George D. Towne, ward 3.....	10.00	
Louis E. Phelps, ward 3.....	10.00	
Nathaniel L. Colby, ward 4.....	10.00	
John H. Riedell, ward 4.....	4.17	
John T. Kelly, ward 5.....	10.00	
Daniel J. McAuliffe, ward 5.....	10.00	
Eugene B. Dunbar, ward 6.....	10.00	
Harry L. Davis, ward 6.....	10.00	
Edson S. Heath, ward 7.....	10.00	
Edward B. Woodbury, ward 7.....	10.00	
Frank A. Cadwell, ward 8.....	10.00	
Ned T. Wallace, ward 8.....	10.00	
Robert E. Walsh, ward 9.....	10.00	
Joseph Boivin, ward 9.....	10.00	
M. E. Harvey, ward 10.....	5.83	
Harry Burpee, ward 10.....	5.83	
		<hr/>
		\$3,405.83

BOARD OF ASSESSORS.

Henry E. Lewis, ward 1.....	\$137.50	
John E. Stearns, ward 2.....	165.50	
John K. Wilson, ward 2.....	5.00	
David O. Fernald, ward 3.....	930.00	
Harrison D. Lord, ward 4.....	496.00	
George F. Sheehan, ward 5.....	117.50	
Henry A. Horton, ward 6.....	151.00	
Robert Leggett, ward 7.....	152.50	
Eugene W. Brigham, ward 8.....	685.50	
John T. Hannigan, ward 9.....	135.00	
L. M. Streeter, ward 10.....	122.50	
Frederick Allen, assistant.....	88.50	
C. W. Brown, assistant.....	67.50	
G. H. Dudley, assistant.....	262.50	
Robert Edgar, assistant.....	62.50	
E. C. Smith, assistant.....	68.50	
H. J. Woods, assistant.....	65.00	
H. L. Currier, clerical services.....	327.50	
J. M. Abbott, clerical services.....	15.00	
A. W. Rowell, clerical services.....	292.50	
Albert T. Barr, clerical services.....	75.00	
Fred Currier, clerical services.....	212.50	
H. F. Stone, clerical services.....	80.00	
J. Z. W. Bernard, interpreter.....	52.50	
Louis Comeau, interpreter.....	47.50	
Joseph Lemyre, interpreter.....	25.00	
Jean B. Rejimbail, interpreter.....	76.00	
		<hr/>
		\$4,916.00

TAX COLLECTOR.

George E. Morrill, balance of salary for 1898...	\$850.00	
George E. Morrill, salary for year 1899.....	600.00	
George E. Morrill, commission on old taxes....	27.42	
		<hr/>
		\$1,477.42

INSPECTORS OF CHECK-LISTS.

John G. Hutchinson, 31 days.....	\$69.75	
John G. Hutchinson, use of team.....	5.50	
Daniel A. Murphy, 17 days.....	38.25	
C. C. Tinkham, 16 days.....	36.00	
George Taylor, 20½ days.....	46.12	
		<hr/>
		\$195.62
Total expenditures		<hr/>
		\$19,956.54
Transferred to unappropriated money account.....		
		2,043.46
		<hr/>
		\$22,000.00
		<hr/>

Auditor's Department.

Appropriation	\$2,000.00
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EXPENDITURES.

LABOR.

James E. Dodge, salary as auditor.....	\$1,200.00	
Lizzie M. Cogswell, services as clerk.....	660.00	
		\$1,860.00

SUPPLIES.

E. E. Babb & Co., pencil sharpener.....	\$3.00	
Barton & Co., cheese cloth, enamel cloth.....	.83	
Clark M. Bailey, paper.....	.78	
Lizzie M. Cogswell, cash paid for laundry.....	2.85	
Lizzie M. Cogswell, postals, stamps, paper, type- writer ribbon	11.25	
Lizzie M. Cogswell, sharpening knives, express, etc.	3.01	
E. R. Coburn Co., blotting paper.....	.50	
John B. Clarke Co., printing letter-heads, bills	23.75	
Daniels & Downs, paper	10.40	
James E. Dodge, paid for cleaning, delivering reports, express	2.40	
W. P. Goodman, books and stationery.....	8.85	
Hale & Whittemore, frame and mat.....	1.35	
R. K. Horne, water cooler.....	3.50	
Manchester Hardware Co., 1 brush.....	1.65	
Harry A. Piper, repairing doors, making shelf, platform	12.40	
Pike & Heald Co., 1 dish.....	.40	
A. J. Smith, oil.....	1.00	
Temple & Farrington Co., blank books, bind- ing books	7.76	
John B. Varick Co., paper and twine.....	1.74	
George P. Wallace, carbon paper.....	3.25	
		\$100.67

SUNDRIES.

L. B. Bodwell & Co., ice.....	\$6.05
Total expenditures	\$1,966.72
Transferred to unappropriated money account.....	33.28
	\$2,000.00

Mayor's Incidentals.

Appropriation	\$300.00
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EXPENDITURES.

W. C. Clarke, team hire.....	\$190.00	
W. C. Clarke, incidentals.....	58.55	
W. J. Freeman, use of teams.....	7.75	
		<hr/>
Total expenditures	\$256.30	
Transferred to unappropriated money account.....	43.70	
		<hr/>
	\$300.00	<hr/>

Street and Park Commission.

Appropriation	\$3,500.00
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EXPENDITURES.

SALARIES.

H. P. Simpson, chairman.....	\$600.00	
G. H. Stearns.....	600.00	
Byron Worthen	600.00	
		<hr/>
		\$1,800.00

CLERICAL SERVICES.

Julia Stearns Frost.....	\$520.00	
George H. Stearns	468.00	
		<hr/>
		\$988.00

USE OF TEAMS.

H. P. Simpson	\$150.00	
G. H. Stearns	150.00	
Byron Worthen	150.00	
		<hr/>
		\$450.00

OFFICE SUPPLIES.

John B. Clarke Co., printing reports.....	\$36.20	
John B. Clarke Co., envelopes, bill heads, etc.	35.35	
W. P. Goodman, books and stationery.....	4.35	
Morgan, Crossman & Co., stamps.....	6.00	
Temple & Farrington Co., books and stationery	42.95	
		<hr/>
		\$124.85

SUNDRIES.

C. S. McKean, repairing chairs.....	\$15.25	
New England Telephone and Telegraph Co., use of telephone	36.90	
H. P. Simpson, expenses of commission to Boston	7.00	
		<u>\$59.15</u>
Total expenditures		\$3,422.00
Transferred to unappropriated money account.....		78.00
		<u>\$3,500.00</u>

Repairs of Highways.

Appropriation	\$20,000.00	
Transferred from unappropriated money account	2,146.59	
		<u>\$22,146.59</u>

EXPENDITURES.

LABOR.

Division No. 2:		
April	\$467.44	
May	2,177.00	
June	1,523.49	
July	1,651.76	
August	1,464.92	
September	761.67	
October	1,132.11	
November	1,352.23	
December	1,051.33	
		<u>\$11,601.95</u>
Division No. 4:		
May	\$113.25	
June	186.00	
July	86.75	
		<u>\$386.00</u>
Division No. 5:		
April	\$15.25	
May	196.25	
June	117.62	
August	166.00	
September	28.12	
November	5.00	
December	7.50	
		<u>\$535.74</u>

Division No. 6:

April	\$32.37	
May	19.50	
June	17.00	
August	34.00	
October	11.75	
December	32.87	
	<hr/>	\$147.49

Division No. 7:

January	\$14.60	
April	92.99	
May	325.25	
June	153.02	
July	115.75	
August	156.62	
September	178.00	
October	154.13	
November	78.02	
December	18.00	
	<hr/>	\$1,286.38

Division No. 8:

April	\$10.50	
May	9.88	
June	480.75	
July	467.59	
August	310.37	
September	14.50	
October	5.75	
December	21.50	
	<hr/>	\$1,320.84

Division No. 9:

April	\$42.25	
May	68.50	
June	167.00	
September	150.25	
November	71.25	
	<hr/>	\$499.25

Division No. 10:

April	\$52.25	
May	736.87	
June	484.12	
July	385.43	
August	796.53	
September	376.19	
October	338.86	
November	519.17	
December	231.96	
	<hr/>	\$3,921.38

Division No. 12:		
September	\$10.00	
October	284.20	
December	34.20	
		<hr/>
		\$328.40

LUMBER, ETC.

Adams Brothers, cement.....	\$0.60	
George H. Brown, posts.....	18.00	
Head & Dowst Co., lumber.....	23.70	
David Wells, posts	87.48	
A. C. Wallace estate, lumber.....	214.42	
		<hr/>
		\$344.20

TOOLS AND HARDWARE.

A. N. Clapp	\$3.26	
J. Hadlock	33.50	
Manchester Hardware Co.....	18.91	
John B. Varick Co.....	139.71	
		<hr/>
		\$195.38

BLACKSMITHING AND REPAIRS.

James Benson, sharpening tools.....	\$2.95	
James H. Cram, sharpening tools.....	24.75	
Peter Duval, filing saws.....	10.40	
Wallace Laird, repairing culvert and wall....	50.00	
T. A. Lane Co., repairing fountains.....	28.46	
C. S. McKean, filing saws, etc.....	6.40	
Pike & Heald Co., labor on pipes.....	15.19	
Robie Consolidated Concrete Co., repairs.....	915.73	
C. L. Wolf, repairing watering-trough.....	.50	
		<hr/>
		\$1,054.38

STONE, GRAVEL, CLAY.

G. W. Campbell, gravel.....	\$8.50	
J. H. Coburn, stone.....	28.00	
W. H. Colby, gravel	5.25	
Byron Corning, gravel.....	21.00	
E. O. Dodge, gravel.....	1.30	
Mark E. Harvey, gravel.....	19.50	
Frederick Heine, gravel.....	25.00	
John Lovering, gravel.....	15.00	
Frank Libbey, gravel.....	8.80	
Byron E. Moore, clay.....	7.50	
		<hr/>
		\$139.85

SUNDRIES.

James Briggs & Son, dippers.....	\$0.30	
A. B. Black, agent, 1 Climax road machine....	235.00	
J. H. Campbell, use of water one year.....	3.00	
John Driscoll Co., dippers and labor.....	38.50	
Manchester Coal & Ice Co., ice for fountain....	67.02	
New England Telephone & Telegraph Co., use of telephone	22.00	
Henry W. Parker, salt and lime.....	2.78	
Robie Consolidated Concrete Co., repairing sidewalks	16.75	
		<u>\$385.35</u>
Total expenditures		<u><u>\$22,146.59</u></u>

New Highways.

Appropriation	\$4,500.00	
Transferred from unappropriated money account	1,062.66	
		<u>\$5,562.66</u>

EXPENDITURES.

LABOR.

Division No. 2:		
January	\$107.20	
February	74.43	
March	29.25	
April	41.00	
May	245.38	
June	48.57	
July	185.75	
August	771.35	
September	581.68	
October	287.47	
November	342.74	
December	108.10	
		<u>\$2,822.92</u>
Division No. 7:		
May	\$47.50	
June	722.50	
July	770.87	
August	130.50	
November	464.89	
December	82.88	
		<u>\$2,219.14</u>

Division No. 10:

June	\$54.75	
August	24.37	
November	214.15	
December	224.73	
		<u>\$518.00</u>

TOOLS AND HARDWARE.

John B. Varick Co.....	\$2.60
Total expenditures	<u>\$5,562.66</u>

Snow and Ice.

Appropriation	<u>\$10,000.00</u>
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EXPENDITURES.

LABOR.

Commons:

April	\$76.63
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Division No. 2:

January	\$755.09	
February	1,881.94	
March	973.57	
April	707.24	
September	23.56	
October	26.82	
November	51.53	
December	92.64	
		<u>\$4,512.39</u>

Division No. 4:

February	\$70.00
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Division No. 5:

January	\$11.00	
February	49.75	
March	18.13	
		<u>\$78.88</u>

Division No. 6:

January	\$28.87	
February	101.99	
March	20.25	
		<u>\$151.11</u>

Division No. 7:

January	\$88.97	
February	259.55	
March	108.80	
April	9.00	
		<u>\$466.32</u>

Division No. 8:	
January	\$17.25
February	62.90
March	15.23
	<hr/>
	\$95.38
Division No. 9:	
February	\$74.25
Division No. 10:	
January	\$343.02
February	742.23
March	444.33
April	322.74
November	21.94
December	77.00
	<hr/>
	\$1,951.26
Division No. 12:	
January	\$132.87

MISCELLANEOUS.

G. H. Brown, wood.....	\$9.00
Brooks & Brock, sand.....	83.20
Austin Goings, sand	3.33
Head & Dowst Co., material and labor.....	9.69
John B. Varick Co., iron and steel.....	13.32
	<hr/>
	\$118.54
Total expenditures	\$7,727.63
Transferred to unappropriated money account.....	2,272.37
	<hr/>
	\$10,000.00
	<hr/>

Damage of Land Taken for Highways.

Balance from last year unexpended.....	\$2,856.77
Transferred from unappropriated money account	2,267.75
	<hr/>
	\$5,124.52
	<hr/>

EXPENDITURES.

L. M. Aldrich & Co., building fence for J. H. Reynolds	\$50.00
Amoskeag Manufacturing Co., castings.....	34.38
Levi Dodge	12.15
George S. Eastman	238.93
Frank M. Goings	100.00
Addison Gray	800.00
Head & Dowst Co., labor at Mitchell place....	780.00
Head & Dowst Co., labor at West Manchester...	356.00

Manchester Concrete Co., concreting.....	\$106.82	
John Muir	729.51	
C. H. Robie Co., concreting.....	600.06	
C. A. Shannon	200.00	
Joseph Wilkins	1,116.67	
		<hr/>
Total expenditures		\$5,124.52
		<hr/> <hr/>

Watering Streets.

Appropriation	\$4,000.00
	<hr/> <hr/>

EXPENDITURES.

LABOR.

Division No. 2:

January	\$11.76	
March	47.00	
April	24.25	
May	615.37	
June	547.99	
July	446.04	
August	498.06	
September	276.00	
October	74.28	
November	22.44	
December	55.50	
		<hr/>
		\$2,618.69

Division No. 10:

May	\$172.00	
June	163.50	
July	136.00	
August	180.25	
September	106.50	
October	26.00	
November	3.25	
December	6.75	
		<hr/>
		\$794.25

SUPPLIES, REPAIRS, ETC.

Abbott-Downing Co., 2 sprinkler tubs.....	\$160.00
A. K. Hobbs, hose.....	8.80
T. A. Lane Co., pipe, labor.....	19.82
Pike & Heald Co., repairs, labor on hydrants..	11.59
J. L. & H. K. Potter, washers, etc.....	8.00
John B. Varick Co., hardware.....	89.00

C. L. Wolf, pipe.....	\$1.80	
J. W. Wilson & Son, castings.....	2.00	
		<u>\$301.01</u>
Total expenditures		\$3,713.95
Transferred to unappropriated money account.....		286.05
		<u>\$4,000.00</u>

Paving Streets.

Appropriation	\$5,000.00	
Transferred from unappropriated money account	337.64	
		<u>\$5,337.64</u>

EXPENDITURES.

LABOR.

Division No. 2:

May	\$375.02	
June	414.49	
July	225.56	
August	165.20	
September	31.13	
October	15.75	
November	50.38	
December	113.52	
		<u>\$1,391.05</u>

Division No. 7:

April	\$24.00	
May	18.00	
June	158.00	
July	45.00	
August	12.00	
September	3.25	
October	53.87	
November	159.75	
December	92.98	
		<u>\$566.85</u>

Division No. 10:

May	\$54.31	
June	197.56	
July	181.37	
August	59.18	
September	54.25	
October	10.01	
November	40.05	
December	49.96	
		<u>\$646.69</u>

PAVING STONE.

C. A. Bailey	\$1,689.03	
W. H. Coburn	218.75	
A. G. Gray	3.00	
	<hr/>	\$1,910.78

SUNDRIES.

Boston & Maine Railroad, freight.....	\$2.00	
Head & Dowst Co., lumber and labor.....	1.41	
J. Hodge, 1 maul, lumber.....	2.84	
Robie Consolidated Concrete Co., concreting..	\$16.02	
	<hr/>	\$822.27
Total expenditures		<hr/> <hr/> \$5,337.64

Macadamizing Streets.

Appropriation	\$10,000.00	
Received from water-works.....	7.00	
Transferred from unappropriated money account	1,387.75	
	<hr/>	\$11,394.75

EXPENDITURES.

LABOR.

Division No. 2:

March	\$43.30	
April	38.00	
May	283.00	
June	1,632.82	
July	1,684.41	
August	2,068.67	
October	483.49	
November	1,543.32	
December	661.17	
	<hr/>	\$8,438.18

Division No. 10:

June	\$15.75
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FUEL, FREIGHT, WATER.

Boston & Maine Railroad, freight.....	\$6.17
L. B. Bodwell & Co., coal.....	90.84
F. X. Chenette, wood.....	75.75
Manchester Water-Works, use of water.....	70.00
Moore & Preston, coal.....	186.47

People's Gas Light Co., coke.....	\$44.00	
J. P. Russell & Co., coal.....	30.00	
		<u>\$503.23</u>

TOOLS AND HARDWARE.

Manchester Hardware Co.....	\$123.72	
B. H. Piper Co.....	27.78	
John B. Varick Co.....	651.65	
		<u>\$802.15</u>

MATERIAL, REPAIRS, ETC.

Brown & Titus, cement.....	\$179.55	
A. B. Black, agent, crusher plates, etc.....	61.82	
John Driscoll Co., dippers.....	1.20	
The Farrel Foundry & Machine Co., jaw plates, toggles, cheeks, etc.....	52.49	
Head & Dowst Co., lumber.....	5.96	
C. H. Hutchinson, labor on crusher, castings...	84.03	
The Ingersoll-Sergeant Drill Co., supplies.....	47.45	
T. A. Lane Co., pipe, burners, etc.....	29.70	
G. W. Rief, material and labor.....	16.05	
Robie Consolidated Concrete Co., concrete, Hanover street	1,076.16	
Vacuum Oil Co., oil.....	79.53	
		<u>\$1,633.94</u>

SUNDRIES.

Daniels-Cornell Co., 1 hogshead.....	\$1.50	
Total expenditures	\$11,394.75	

Grading for Concrete.

Appropriation	<u>\$5,000.00</u>
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EXPENDITURES.

LABOR.

Division No. 2:	
March	\$26.49
May	217.37
June	77.99
July	163.81
August	94.12
September	34.57

SCAVENGER SERVICE.

383

October	\$34.00	
November	111.80	
December	45.86	
		<u>\$806.01</u>

Division No. 7:

May	\$31.00	
June	17.00	
September	16.38	
October	24.75	
		<u>\$89.13</u>

Division No. 10:

May	\$32.62	
June	51.13	
July	52.50	
August	70.63	
September	18.93	
October	12.37	
November	18.11	
December	19.35	
		<u>\$275.64</u>

STONE AND CONCRETE.

C. A. Bailey, stone steps.....	\$33.00	
Warren Harvey, stone	688.16	
Manchester Concrete Co., concrete.....	52.50	
Robie Consolidated Concrete Co., concrete.....	1,154.98	
		<u>\$1,928.64</u>

SUNDRIES.

Manchester Hardware Co., forcite.....	\$11.50	
Palmer & Garmons, cutting stone.....	2.80	
		<u>\$14.30</u>

Total expenditures	\$3,113.72	
Transferred to unappropriated money account.....	1,886.28	
		<u>\$5,000.00</u>

Scavenger Service.

Appropriation	\$15,000.00	
Transferred from unappropriated money account	2,633.29	
		<u>\$17,633.29</u>

EXPENDITURES.

LABOR.

Division No. 2:

January	\$679.43	
February	828.06	
March	688.67	
April	1,191.58	
May	1,321.94	
June	702.90	
July	605.25	
August	737.36	
September	757.11	
October	586.92	
November	871.55	
December	648.95	
	<hr/>	\$9,619.72

Division No. 7:

January	\$68.10	
February	41.45	
March	60.75	
April	97.75	
May	72.00	
June	55.63	
July	48.50	
August	59.12	
September	45.50	
October	58.25	
November	74.95	
December	93.53	
	<hr/>	\$775.53

Division No. 10:

January	\$166.47	
February	333.78	
March	212.82	
April	467.63	
May	600.63	
June	413.67	
July	466.88	
August	508.30	
September	361.12	
October	254.00	
November	537.44	
December	323.83	
	<hr/>	\$4,646.57

CONTRACT.

City farm, scavenger service.....	\$2,459.58
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STREET SWEEPING.

385

TOOLS AND HARDWARE.

John B. Varick Co.....	\$86.47
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LUMBER AND REPAIRS.

Head & Dowst Co., lumber and labor.....	\$6.37
T. A. Lane Co., cutting pipe.....	.25
Pike & Heald Co., material and labor.....	15.30
	<hr/>
	\$21.92

SUNDRIES.

John B. Clarke Co., printing circulars, French and English	\$23.50
Total expenditures	<hr/> \$17,633.29 <hr/>

Street Sweeping.

Appropriation	<hr/> \$2,500.00 <hr/>
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EXPENDITURES.

LABOR.

Division No. 2:

April	\$98.94
May	311.53
June	195.93
July	243.74
August	255.66
September	185.99
October	274.13
November	222.93
December	197.70
	<hr/>
	\$1,986.55

Division No. 10:

April	\$16.75
May	25.75
June	41.38
July	22.00
August	46.63
September	10.00
November	19.05
December	2.81
	<hr/>
	\$184.37

SUPPLIES.

Hickory Broom Co., brooms and refilling brooms	\$64.50	
H. Thompson, brooms	15.00	
		<u>\$79.50</u>
Total expenditures		\$2,250.42
Transferred to unappropriated money account.....		249.58
		<u>\$2,500.00</u>

Bridges.

Appropriation	\$2,500.00	
Transferred from unappropriated money account	27.27	
		<u>\$2,527.27</u>

EXPENDITURES.

LABOR.

Division No. 2:		
May	\$8.63	
June	88.83	
July	224.72	
August	63.44	
September	55.39	
October	30.75	
November	66.07	
December	2.50	
		<u>\$540.33</u>
Division No. 6:		
June		\$24.75
Division No. 9:		
July		\$60.50
Division No. 10:		
May		\$17.25
H. W. Harvey, labor repairing stone pier, Amoskeag bridge		\$132.25

LUMBER, HARDWARE, PAINT, ETC.

Cavanagh Brothers, oak plank.....	\$69.61
James P. Finn, paint and labor.....	85.51
Warren Harvey, iron wedges, rods, etc. . . .	9.80
Head & Dowst Co., lumber.....	121.19
Head & Dowst Co., building and painting bridges, Mosquito pond	851.45

CITY TEAMS.

387

John B. Variek Co., hardware.....	\$66.22	
A. C. Wallace estate, lumber.....	548.41	
		<hr/>
Total expenditures		\$1,752.19
		<hr/>
		\$2,527.27
		<hr/>

South Manchester Playground.

Balance from last year unexpended.....	\$19.87	
Appropriation	100.00	
Transferred from unappropriated money account	13.81	
		<hr/>
		\$133.68
		<hr/>

EXPENDITURES.

LABOR.

Commons:

April	\$3.00	
July	39.25	
August	6.87	
November	21.87	
		<hr/>
		\$70.99

SUNDRIES.

D. E. Guiney, repairing pumps.....	\$5.00	
Head & Dowst Co., lumber and labor.....	32.14	
John B. Variek Co., hardware, swings.....	25.55	
		<hr/>
		\$62.69
		<hr/>
Total expenditures		\$133.68
		<hr/>

City Teams.

Appropriation	\$6,500.00	
Transferred from unappropriated money account	852.76	
		<hr/>
		\$7,352.76
		<hr/>

EXPENDITURES.

LABOR.

Division No. 2:

January	\$217.70
February	248.30
March	204.10
April	213.75

May	\$169.00	
June	129.12	
July	118.82	
August	160.50	
October	144.50	
November	191.99	
	<hr/>	\$1,797.78

Division No. 10:

January	\$21.00	
February	22.40	
March	19.72	
April	17.50	
May	18.25	
June	14.00	
July	18.00	
August	69.25	
September	17.25	
October	22.50	
November	19.25	
December	19.25	
	<hr/>	\$278.37

Commons:

June	\$139.13	
July	127.50	
August	100.72	
October	8.75	
November	8.75	
December	179.76	
	<hr/>	\$564.61

GRAIN, HAY, STRAW.

Ame & Co.....	\$30.00	
Adams Brothers	20.75	
Brown & Titus	1,343.57	
W. H. Boynton.....	200.04	
William Cleveland & Son.....	122.65	
Gage & McDougall.....	100.23	
J. F. Grant.....	16.30	
M. H. Gray	187.50	
R. Holbrook	11.65	
I. Huse	71.22	
Jonathan McAllister	67.24	
Partridge Brothers	94.02	
A. F. Patten	8.52	
Joseph Quirin	45.28	
Tom W. Robinson.....	104.92	
B. F. Welch	168.25	
	<hr/>	\$2,592.14

HARNESSES AND REPAIRS.

J. A. Ballou.....	\$128.55	
Kimball Carriage Co.....	104.50	
H. C. Ranno & Son.....	36.45	
John Silverg	5.50	
	<hr/>	\$275.00

CARRIAGE REPAIRS.

John T. Beach	\$160.25
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HARDWARE.

A. N. Clapp	\$1.06	
Manchester Hardware Co.....	.05	
John B. Varick Co.....	428.71	
	<hr/>	\$429.82

HORSES, VETERINARY EXPENSES.

A. F. Abbott, V. S., attendance and medicine..	\$72.95	
F. L. Bodwell, V. S., dressing teeth.....	26.00	
Cavanaugh Brothers, 2 horses.....	375.00	
A. L. Dodge, V. S., attendance and medicine..	2.50	
J. L. Golden, V. S., liniment.....	12.00	
F. K. Hubbard, medicine.....	18.00	
W. B. Mitchell, medicine.....	7.40	
Tebbetts & Soule, medicine, etc.....	2.25	
	<hr/>	\$516.10

WATER, GAS, TELEPHONE, FUEL.

L. B. Bodwell & Co., 7 tons coal.....	\$39.50	
Manchester Water-Works, use of water.....	84.42	
New England Telephone & Telegraph Co., use of telephones	75.00	
People's Gas Light Co., gas.....	153.93	
James Wyman, coal.....	19.00	
	<hr/>	\$371.85

LUMBER, REPAIRS, ETC.

James Briggs & Son, repairing sprinkler, etc.	\$2.89	
Hartwell Foundry Co., castings.....	21.60	
Head & Dowst Co., lumber and labor.....	82.71	
C. H. Hutchinson, labor on castings.....	5.35	
T. A. Lane Co., pipe, etc.....	34.55	
Pike & Heald Co., pipe.....	1.54	
G. W. Rief, lumber and labor.....	6.34	
Robie Consolidated Concrete Co., concreting..	20.03	
L. & W. T. Seiberlich, paint, glue, etc.....	9.11	
G. H. Warren, assignee, lumber.....	14.40	
	<hr/>	\$198.52

SUNDRIES.

W. C. Bedell, harness riveter.....	\$1.00	
Boston & Maine Railroad, freight.....	72.00	
A. N. Clapp, oil.....	28.65	
A. N. Clapp, matches, baskets, etc.....	2.71	
Eager & Co., soap.....	2.20	
People's Gas Light Co., 1 stove.....	1.40	
E. D. Rogers, axle paste.....	5.50	
C. H. Simpson, use of teams.....	36.00	
The Sulpho-Naphthol Co., sulpho-naphthol.....	15.00	
Temple & Farrington Co., blank books.....	2.36	
G. E. Wheeler & Son, use of teams.....	1.50	
	<hr/>	\$165.32
Total expenditures		<u>\$7,352.76</u>

Repairs of Sewers.

Appropriation	\$5,000.00	
Overdraft, Brown & Titus.....	101.88	
	<hr/>	\$5,101.88

EXPENDITURES.

LABOR.

Division No. 2:		
January	\$23.48	
February	64.01	
March	9.23	
April	66.75	
May	274.92	
June	379.01	
July	228.82	
August	72.04	
September	141.92	
October	113.76	
November	583.34	
December	151.81	
	<hr/>	\$2,109.09
Division No. 10:		
March	\$3.50	
April	6.50	
May	285.87	
June	91.12	
July	125.88	
August	87.00	
September	123.12	

October	\$50.63	
November	126.58	
December	40.12	
	<hr/>	\$940.32

MATERIAL, HARDWARE, ETC.

Boston & Maine Railroad, freight.....	\$11.20	
Brown & Titus, cement.....	241.84	
Boston Belting Co., hose.....	610.65	
A. N. Clapp, saw, nails.....	.71	
John Driscoll Co., cesspool dippers.....	7.50	
Warren Harvey, stone	199.80	
W. F. Head & Son, brick.....	285.60	
T. A. Lane Co., pipe.....	155.64	
Palmer & Garmons, cutting stone.....	.90	
C. H. Thayer, rubber boots.....	6.00	
John B. Varick Co., hardware.....	7.67	
C. L. Wolf, scoops.....	2.50	
	<hr/>	\$1,530.01
Total expenditures		\$4,579.42
Transferred to unappropriated money account.....		522.46
		<hr/>
		\$5,101.88
		<hr/>

New Sewers.

Appropriation	\$20,000.00	
Transferred from unappropriated money account	416.66	
	<hr/>	\$20,416.66
		<hr/>

EXPENDITURES.

LABOR.

Division No. 2:		
May	\$336.20	
June	815.08	
July	37.15	
August	2,087.95	
September	1,471.99	
October	761.40	
November	9.02	
December	102.50	
	<hr/>	\$5,621.29

Division No. 7:

January	\$33.13	
April	12.50	
May	406.00	
June	215.89	
July	697.54	
August	1,034.43	
September	668.50	
October	22.50	
November	512.30	
December	428.85	
		<hr/>
		\$4,031.64

Division No. 10:

May	\$540.87	
June	347.99	
August	194.38	
September	769.88	
October	378.97	
November	166.59	
December	105.49	
		<hr/>
		\$2,504.17

HARDWARE, TOOLS, SEWER PIPE.

Adams Brothers, pipe	\$3.19	
A. N. Clapp, hardware	5.80	
T. A. Lane Co., pipe	1,820.44	
John B. Varick Co., hardware and tools.....	575.32	
		<hr/>
		\$2,404.75

MATERIAL, LABOR, ETC.

Carson Trench Machine Co., grates.....	\$9.50	
A. N. Clapp, oil.....	9.13	
W. P. Farmer, rubber boots.....	11.00	
Hartwell Foundry Co., grates, covers, traps, etc.	1,246.06	
C. H. Hutchinson, labor on drills, etc.....	5.18	
The Ingersoll-Sergeant Drill Co., supplies.....	222.04	
		<hr/>
		\$1,502.91

CEMENT, BRICK, LUMBER.

Brown & Titus, cement.....	\$791.85	
W. F. Head & Son, brick.....	606.90	
Head & Dowst Co., lumber.....	23.63	
Kimball Carriage Co., brick.....	150.45	
A. C. Wallace estate, lumber.....	780.20	
		<hr/>
		\$2,353.03

SUNDRIES.

Amory Maunfactory Co., sacking.....	\$2.52	
Boston & Maine Railroad, freight.....	1,771.95	
L. B. Bodwell & Co., coal.....	21.66	
A. K. Hobbs, leather, etc.....	1.95	
Moore & Preston, coal.....	89.50	
D. M. Poore, coal.....	50.04	
Luther Proctor, wood.....	4.00	
S. B. Stearns, insurance policy.....	50.00	
G. H. Warren, assignee, 1 cap for barrel.....	.50	
C. B. Wingate, rubber boots.....	6.75	
		<u>\$1,998.87</u>
Total expenditures		<u><u>\$20,416.66</u></u>

Commons.

Appropriation	\$4,000.00	
Transferred from unappropriated money account	358.59	
		<u><u>\$4,358.59</u></u>

EXPENDITURES.

LABOR.

January	\$322.24	
February	271.25	
March	202.13	
April	182.99	
May	196.25	
June	184.49	
July	185.38	
August	196.81	
September	164.50	
October	189.00	
November	272.01	
December	184.62	
		<u>\$2,551.67</u>

PLANTS, ETC.

J. Chamberlen, tree	\$1.00	
A. F. Davis, pine brush.....	11.00	
A. G. Hood, plants.....	85.00	
Frank A. Koerner, plants.....	20.00	
The Kirby Floral Co., plants.....	80.00	
Lowell Fertilizer Co., fertilizer.....	84.00	
Manchester Hardware Co., seed.....	58.17	
Ray Brook Garden Co., plants.....	101.00	
		<u>\$440.17</u>

WATER AND ELECTRIC LIGHTS.

Manchester Water-Works, use of water.....	\$350.00	
Union Electric Co., electric lights.....	36.00	
		<u>\$386.00</u>

REPAIRS AND GENERAL EXPENSES.

L. M. Aldrich & Co., glass, putty, labor.....	\$3.65	
Boston & Maine Railroad, freight.....	5.05	
John T. Beach, 1 dumpcart.....	75.00	
D. F. Cressey, blacksmith work.....	11.38	
A. N. Clapp, oil.....	5.29	
J. B. Corbiere, sharpening tools.....	2.35	
W. P. Farmer, rubber boots.....	21.00	
Hartwell Foundry Co., flanges.....	1.29	
C. H. Hutchinson, repairs.....	13.24	
J. Hodge, lumber	4.50	
Head & Dowst Co., lumber and labor.....	41.28	
T. A. Lane Co., labor and material, fountains, etc.	34.29	
H. F. W. Little, keys and fitting.....	.75	
Manchester Hardware Co., hardware.....	4.30	
Harry A. Piper, filing saws, etc.....	5.27	
Leander Pope, sharpening tools.....	5.15	
Robie Consolidated Concrete Co., repairs.....	637.94	
John B. Variek Co., tools and hardware.....	67.52	
A. C. Wallace, labor sawing and planing lumber	19.20	
N. J. Whalen, harness leather.....	1.00	
Wingate & Co., rubber boots.....	2.75	
C. B. Wingate, rubber boots.....	14.55	
		<u>\$976.75</u>

SUNDRIES.

Parnell Brothers, barrels.....	\$4.00	
Total expenditures	\$4,358.59	

Stark Park.

Appropriation	\$500.00	
Transferred from unappropriated money account	18.51	
		<u>\$518.51</u>

EXPENDITURES.

LABOR.

April	\$14.00
May	104.50

June	\$60.50	
July	72.00	
August	90.50	
September	51.50	.
October	18.00	
November	52.00	
	<hr/>	\$463.00
SUNDRIES.		
T. A. Lane Co., labor on fence.....	\$20.77	
Manchester Water-Works, use of water.....	16.50	
John B. Varick Co., hardware, etc.....	18.24	
	<hr/>	\$55.51
Total expenditures		<u><u>\$518.51</u></u>

Derryfield Park.

Appropriation	\$1,000.00	
Transferred from unappropriated money account	33.81	
	<hr/>	<u><u>\$1,033.81</u></u>

EXPENDITURES.

LABOR.

January	\$29.25	
February	12.50	
April	6.50	
May	384.00	
June	115.50	
July	130.75	
August	81.00	
September	82.12	
October	42.62	
November	47.62	
	<hr/>	\$931.86

SUNDRIES.

W. G. Berry, insurance premium.....	\$5.00	
A. S. Chadbourn, trees	12.00	
D. F. Cressey, sharpening tools.....	8.00	
D. E. Guiney, repairing pump.....	3.00	
H. F. W. Little, labor on observatory.....	.56	
Manchester Water-Works, use of water.....	24.00	
John B. Varick Co., hardware.....	49.39	
	<hr/>	\$101.95
Total expenditures		<u><u>\$1,033.81</u></u>

Lighting Streets.

Appropriation	\$55,575.00	
Transferred from unappropriated money account	74.58	
		<u>\$55,649.58</u>

EXPENDITURES.

ELECTRIC LIGHTS.

Manchester Electric Co.:

	Charges.	Discounts.
January	\$4,353.35	\$9.77
February	4,407.62	14.40
March	4,408.33	8.03
April	4,408.33	8.46
May	4,408.33	3.46
June	4,408.33	1.64
July	4,408.33	5.26
August	4,408.33	8.35
September	4,408.33	8.68
October	4,408.33	11.54
November	4,408.33	16.38
December	4,408.33	10.45
	<u>\$52,844.27</u>	<u>\$106.42</u>
Less discount	106.42	
		<u>\$52,737.85</u>

GAS.

People's Gas Light Co.:

January	\$51.52
February	46.00
March	37.00
April	37.13
May	33.25
June	20.25
July	27.00
August	28.00
September	30.00
October	33.00
November	40.50
December	43.25
	<u>\$436.90</u>

CARE OF GAS AND OIL LAMPS.

William Brooks	\$229.80
E. P. Cogswell	343.68
Frank W. Elliott, to January 1, 1900	15.48
Joseph Goodwin	1,312.00
Mary E. Reed, to December 1, 1899	9.00
	<u>\$1,909.96</u>

SUPPLIES.

Clark M. Bailey, founts, wicks.....	\$2.50	
A. N. Clapp, naphtha	377.77	
A. N. Clapp, oil and chimneys.....	23.81	
Mary E. Reed, oil, etc.....	6.00	
John B. Varick Co., glass, matches, etc.....	20.29	
C. L. Wolf, labor and stock, gasoline lanterns..	89.50	
		<hr/>
		\$519.87

SUNDRIES.

Henry Cote, use of teams.....	\$10.00	
W. J. Freeman, use of teams.....	30.00	
C. H. Simpson, use of teams.....	5.00	
		<hr/>
		\$45.00
Total expenditures		<hr/>
		\$55,649.58

Engineer's Department.

Appropriation	\$5,400.00
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EXPENDITURES.

LABOR.

Samuel J. Lord, engineer.....	\$1,183.12	
Harry J. Briggs	774.20	
Alfred Dodge	623.61	
George W. Wales	849.93	
Harrie M. Young	739.55	
Ella Barker Davis	463.74	
		<hr/>
		\$4,634.15

SUPPLIES AND OFFICE EXPENSES.

American Express Co., express.....	\$3.70
The John B. Clarke Co., printing 150 reports..	18.80
Carter's Ink Co., coupon book for typewriter ribbons	4.50
E. R. Coburn Co., stationery	10.41
Dodge & Straw, rubber boots.....	3.75
G. W. Dodge Shoe Co., rubber boots.....	7.00
W. P. Goodman, stationery.....	6.54
W. & L. E. Gurley, balance on exchange of tripods	55.00
W. & L. E. Gurley, supplies	34.00
R. K. Horne, 1 pan.....	.38
W. F. Hubbard, grade stakes.....	42.50
J. G. Jones, freight and cartage.....	.93
Keuffel & Esser Co., supplies.....	47.55

Kimball Carriage Co., repairing blanket.....	\$1.25	
The Lyon Platinum Pen Co., pens.....	6.00	
Manchester Hardware Co., hardware.....	2.32	
Morgan, Crossman & Co., stamp, pad, ink, etc.	4.75	
New England Telephone & Telegraph Co., use of telephones	44.47	
E. G. Soltmann, tape, blue print, etc.....	106.74	
Treworgy Ink Manufacturing Co., ink.....	1.50	
Temple & Farrington Co., stationery.....	35.03	
Union Manufacturing Co., numbers.....	45.00	
John B. Varick Co., crayons.....	.42	
C. H. Wood, varnishing tripod, etc.....	1.25	
John Wiley & Sons, 1 table.....	.44	
Yawman & Erbe Manufacturing Co., 1 Shannon cabinet	30.07	
		<u>\$514.30</u>
SUNDRIES.		
Pike & Heald Co., bench marks on hydrants, etc.	\$100.00	
Harrie M. Young, expenses to Nashua and re- turn	1.53	
		<u>\$101.53</u>
Total expenditures		\$5,249.98
Transferred to unappropriated money account.....		150.02
		<u>\$5,400.00</u>

Health Department.

Appropriation	\$4,766.00	
Overdraft, John B. Varick Co.....	43.17	
		<u>\$4,809.17</u>

EXPENDITURES.

SERVICES.

John C. Bickford, salary as member of board, year ending February 1, 1899.....	\$200.00	
W. M. Parsons, M. D., salary as member of board, year ending February 1, 1899.....	200.00	
W. K. Robbins, salary as member of board, year ending February 1, 1899.....	200.00	
W. B. Blake, sanitary inspector.....	765.00	
John F. Looney, sanitary inspector.....	744.75	
Carl O. Seaman, plumbing inspector.....	780.00	
M. Alma Fracker, clerk.....	416.00	
		<u>\$3,305.75</u>

PRINTING AND STATIONERY.

A. S. Campbell & Co., 200 notices.....	\$2.00	
John B. Clarke Co., printing bulletins.....	36.00	
John B. Clarke Co., 300 reports.....	19.60	
John B. Clarke Co., circulars and blanks....	64.72	
E. R. Coburn Co., stationery and books.....	7.00	
		<hr/>
		\$129.32

TEAMS.

W. B. Blake, car fares.....	\$40.25	
W. B. Blake, job teams.....	6.25	
J. P. Brown & Co., use of teams.....	42.00	
F. X. Chenette, use of teams.....	7.50	
C. S. Fifield, use of teams.....	6.00	
F. E. James, use of teams.....	3.00	
John F. Looney, car fares.....	29.05	
Carl O. Seaman, car fares.....	.70	
B. F. & R. W. Welch, use of teams.....	3.50	
		<hr/>
		\$138.25

PESTHOUSE.

Judith Sherer, board, sundry persons.....	\$41.76	
G. W. Whitford, wood and coal.....	10.00	
		<hr/>
		\$51.76

SUPPLIES FOR ISOLATED FAMILIES.

W. B. Blake, wood and medicine.....	\$5.90	
Thomas E. Barr, milk.....	3.50	
J. H. DeCourcy Co., coal	1.50	
J. B. Daigle, groceries.....	15.89	
Desrochers & Poirier, groceries.....	19.93	
Granite State Grocery Co., groceries.....	3.49	
L. H. Gauvin, groceries.....	13.43	
John F. Looney, wood and groceries.....	4.80	
A. W. Morse, groceries.....	3.78	
Noyes & Prince, groceries.....	6.31	
Parnell Brothers, groceries.....	19.76	
R. B. Reynolds, board, room, etc.....	21.35	
T. F. Sheehan, groceries.....	7.50	
Summer Street Market, groceries.....	41.52	
Schricker Brothers, groceries.....	10.98	
F. H. Thurston, prescriptions.....	1.18	
Calixte Vigneault, groceries	14.29	
Henry Weber, groceries	11.33	
C. A. Williams, medicine	33.90	
Mrs. J. A. Westover, board, Adelaide Church and nurse	10.26	
D. A. Watson, coal.....	9.25	
		<hr/>
		\$259.65

OFFICE EXPENSES AND SUPPLIES.

Bausch & Lomb Optical Co., cedar oil, supplies	\$3.82
W. B. Blake, paid for express and telephone..	1.42
Carter, Rice & Co., gummed paper.....	4.05
Alma Fracker, paid for laundry.....	2.20
Alma Fracker, express, keys, stamps.....	7.65
John B. Hall, antitoxine.....	8.80
C. A. Hoitt & Co., repairing chair.....	.25
J. F. Looney, paid for express, tacks, etc.....	.96
Library Bureau, 1 oak card index.....	15.00
Library Bureau, 1 oak ease.....	27.50
Manchester Mills, wood alcohol.....	33.75
Manchester Telephone Co., use of telephone....	22.50
New England Telephone & Telegraph Co., use of telephone	41.65
Parke, Davis & Co., culture tubes.....	3.36
Harry A. Piper, labor on lock.....	.50
Rhode Island Label Works, gummed paper....	1.60
People's Gas Light Co., gas.....	8.28
Carl O. Seaman, matches, mantles, chimney	1.40
F. H. Thurston, antitoxine.....	17.00
John B. Varick Co., wood alcohol.....	265.97
John B. Varick Co., paper, lock, scissors.....	2.47

 \$470.13

SUNDRIES.

A. F. Abbott, V. S., 1 visit.....	\$2.50
L. M. Aldrich & Co., taking off windows.....	1.75
W. B. Blake, disinfecting Wilson schoolrooms	23.75
W. B. Blake, expenses at lake, etc.....	13.14
James S. Brown, M. D., diphtheria examination	1.50
Alfred Beauchesne, burying dogs.....	2.00
C. E. Crombie, removing and burying deer....	3.00
D. F. Cressey, repairing grapple.....	1.65
F. X. Chenette, pumping cellar.....	18.00
John F. Looney, chloride of lime, brush, bury- ing dog	2.47
New Hampshire College, analyzing water....	10.00
Charles L. Parsons, analyzing samples.....	5.00
Pike & Heald Co., pipe, dampers, etc.....	20.22
W. K. Robbins, expenses attending meeting of American Public Health Association.....	58.50
W. K. Robbins, membership fee.....	5.00
A. G. Straw, M. D., diphtheria examination....	61.00
Carl O. Seaman, expenses to Concord.....	3.66

Carl O. Seaman, 7 keys.....	\$1.25	
G. L. Tatro, use of boat.....	5.00	
		<u>\$239.39</u>
Total expenditures		\$4,594.25
Transferred to unappropriated money account.....		214.92
		<u>\$4,809.17</u>

Repairs of Schoolhouses.

Appropriation	\$5,500.00	
Transferred from unappropriated money account	1,000.00	
		<u>\$6,500.00</u>

EXPENDITURES.

MASONWORK.

Amoskeag Manufacturing Co.....	\$41.98	
D. McAuliffe & Sons.....	150.91	
B. W. Robinson	474.39	
Z. B. Stuart.....	411.35	
		<u>\$1,078.63</u>

PAINTING AND GLAZING.

J. J. Abbott	\$219.21	
J. A. Avery	9.20	
W. J. Powers .....	.50	
W. H. Sullivan	198.56	
John A. Sargent.....	655.44	
		<u>\$1,082.91</u>

PLUMBING, IRONWORK, REPAIRS.

Amoskeag Manufacturing Co., material and electric work	\$27.78	
Carl W. Anderson & Co., repairing clocks....	4.75	
American Glue Co., indurine.....	3.00	
S. C. Austin & Co., repairing lightning rods...	20.00	
F. S. Bodwell, stone and labor.....	16.60	
C. B. Brown, roofing material and labor.....	151.62	
Burlington Venetian Blind Co., 12 pairs hangers	.75	
Brodie Electric Co., electrical repairs.....	23.20	
E. M. Bryant & Co., electrical supplies and labor	37.78	
W. M. Darrah & Co., material and labor.....	7.28	
G. H. Dudley, material and labor.....	577.83	
Head & Dowst Co., fittings for physical labor- atory	600.00	

Head & Dowst Co., lumber, glass, labor.....	\$237.89	
J. Hodge, molding, blinds, etc.....	53.28	
James W. Hill Co., repairing shades.....	1.75	
C. H. Hutchinson, repairing grates.....	28.22	
R. D. Jenkins, repairing chairs.....	1.35	
Thomas A. Lane Co., plumbing material and labor	784.79	
H. J. Lawson, material and labor.....	31.05	
Manchester Heating & Lighting Co., mantles, etc.	2.10	
Manchester Hardware Co., hardware.....	.30	
Mendell & Co., material and labor.....	21.55	
Palmer & Garmons, stone cutting.....	1.60	
Pike & Heald Co., plumbing, cleaning stove pipes	362.35	
B. F. Shepard, repairing locks, etc.....	6.85	
G. E. Spaulding, plumbing.....	983.71	
Standard Electric Time Co., repairs, expenses of man from Waterbury, Conn.....	27.58	
C. A. Trefethen, repairing clocks.....	9.50	
C. L. Wolf, plumbing.....	3.07	
John B. Variek Co., rope, etc.....	.80	
		<u>\$4,028.33</u>

CONCRETING.

Robie Consolidated Concrete Co.....	\$230.91
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SUNDRIES.

C. F. Jack, paid for cutting grass.....	\$9.75	
J. G. Jones, freight.....	.29	
Pay-roll, commons, May.....	15.00	
Pay-roll, commons, August	12.87	
Pay-roll, commons, November.....	7.00	
Frank Russell, cleaning vaults.....	25.00	
Edward Sears, reeving ropes for flags.....	8.88	
		<u>\$78.79</u>
Total expenditures	\$6,499.57	
Transferred to unappropriated money account.....	.43	
		<u><u>\$6,500.00</u></u>

Printing and Advertising.

Appropriation	<u><u>\$300.00</u></u>
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EXPENDITURES.

SUNDRIES.

R. Bechard, printing placards.....	\$5.00	
A. S. Campbell & Co., printing postals, etc....	8.00	
John B. Clarke Co., printing cards, lists, blanks	254.88	
		<hr/>
Total expenditures		\$267.88
Transferred to unappropriated money account.....		32.12
		<hr/>
		\$300.00
		<hr/>

Books and Stationery.

Appropriation	\$100.00
	<hr/>

EXPENDITURES.

SUNDRIES.

John B. Clarke Co., printing blanks, circulars	\$21.25	
W. P. Goodman, stationery.....	6.30	
O. D. Knox, postmaster, stamps and cards....	15.00	
Star Stamp Co., 1 stamp.....	.50	
E. E. Stockbridge, envelopes.....	5.40	
		<hr/>
Total expenditures		\$48.45
Transferred to unappropriated money account.....		51.55
		<hr/>
		\$100.00
		<hr/>

Furniture and Supplies.

Appropriation	\$1,300.00
	<hr/>

EXPENDITURES.

PHYSICAL AND CHEMICAL APPARATUS, SUPPLIES, ETC.

L. E. Knott Apparatus Co.....	\$97.11	
Tebbetts & Soule	144.69	
		<hr/>
		\$241.80

HARDWARE, ETC.

E. M. Bryant & Co., labor and material.....	\$41.20	
Head & Dowst Co., lumber.....	22.38	
T. A. Lane Co., plumbing repairs.....	14.81	
Manchester Hardware Co., shovel, cord, etc...	6.10	
B. W. Robinson, masonwork.....	13.75	
John B. Varick Co., hardware, sponge, brooms, etc.	244.22	
		<hr/>
		\$342.46

BOOKS AND STATIONERY.

American Book Co.....	\$17.00
E. E. Babb & Co.....	56.00
Milton Bradley Co.....	6.75
E. R. Coburn Co.....	1.35
Earle Ink Co.....	15.35
W. P. Goodman.....	74.35
B. F. King & Co.....	78.60
	<hr/>
	\$249.40

FURNITURE, ETC.

Amoskeag Manufacturing Co., oil, poker.....	\$10.83
Barton & Co., curtains.....	2.67
F. W. Blood Roofing Co., 1 mop wringer.....	2.50
P. C. Cheney Co., mop waste.....	9.25
A. B. Colby, poker, etc.....	1.25
G. W. Davis, oil.....	.50
Nelson H. Earle & Co., ink.....	4.85
T. F. Fifield, oil.....	4.24
A. L. Franks & Co., bell.....	2.00
R. D. Gay, shades, fixtures, etc.....	11.85
W. H. Huse, 1 ladder.....	1.30
C. A. Hoitt & Co., desk, chairs, tables, etc.....	32.64
A. K. Hobbs, piano covers, cloth, pegs.....	15.93
A. K. Hobbs, hose and lawn sprinklers.....	24.50
A. C. Hovey, mop wringers.....	10.00
T. F. Hannaford, brooms.....	4.80
J. L. Hammett Co., map, flag.....	9.40
James W. Hill Co., flags, bunting, etc.....	28.95
C. F. Jack, paid for curtains and making.....	1.88
Kimball & Hobbs, chair tips.....	20.77
G. F. King & Co., rulers, globes, bells.....	7.20
Manchester Heating & Lighting Co., fire tools	7.40
F. E. Nelson, basins, cups, water cooler.....	7.70
Pike & Heald Co., mat, broom, cups, etc.....	25.00
G. S. Perry & Co., mat, brush, bell, etc.....	15.61
The Prang Educational Co., solids, sticks, boxes	8.05
Henry A. Parker, soap.....	2.50
People's Gas Light Co., stove, tubing, etc.....	3.10
Rand, McNally & Co., maps.....	39.50
Edith M. Stebbins, sash curtains.....	2.18
G. E. Wentworth, 2 sweepers.....	2.25
F. W. Woolworth & Co., brush, jug, etc.....	.30
Watertown Thermometer Co., 24 thermometers	10.00
	<hr/>

\$330.90

SUNDRIES.

A. N. Clapp, seed, oil.....	\$1.00	
A. F. Davis, shrubs	3.00	
Joel Daniels & Co., brushes.....	1.90	
C. F. Jack, paid for sash curtains, etc.....	2.05	
A. A. Jenkins, tuning pianos.....	11.25	
Florence H. James, 13 days' labor.....	9.75	
R. D. Jenkins, repairing chairs.....	2.55	
J. G. Jones, cartage	3.50	
A. Z. Jenkins, pitch pipes.....	2.63	
C. H. Kimball, repairing drum.....	2.35	
Kasson & Palmer, subscription to "Education," 1 year	3.00	
Manchester Mills, soap.....	6.00	
Read Holliday Sons, disinfectants.....	15.00	
C. A. Trefethen, repairing clocks.....	12.25	
F. H. Thurston, germol.....	17.50	
	<hr/>	\$93.73
Total expenditures		\$1,258.29
Transferred to unappropriated money account.....		41.71
		<hr/>
		<u>\$1,300.00</u>

Fuel.

Balance last year unexpended	\$768.16	
Appropriation	8,800.00	
	<hr/>	\$9,568.16
		<hr/>

EXPENDITURES.

COAL.

Boisclair & Raiche, 15 tons.....	\$86.25	
L. B. Bodwell & Co., 185 tons, 210 lbs.....	1,694.53	
L. B. Bodwell & Co., 463,545 lbs.....	3,140.30	
W. E. Dunbar & Son.....	11.50	
J. H. DeCourcy Co., 30 tons.....	172.50	
Flint, Haskell & Flint, 20 tons.....	115.00	
Manchester Coal & Ice Co., 51 tons, 1,925 lbs.	246.75	
Manchester Coal & Ice Co., 36,555 lbs.....	32.54	
Moore & Preston, 123 tons, 375 lbs.....	574.25	
D. M. Poore, 42 tons, 930 lbs.....	245.17	
J. P. Russell & Co., 10 tons.....	57.50	
J. F. Wyman, 10 tons.....	57.50	
Wilson & Bryant, 63 tons.....	318.60	
	<hr/>	\$6,752.39

WOOD.

L. B. Bodwell & Co.....	\$2.00	
J. M. Clark.....	132.01	
W. E. Dunbar & Son.....	401.62	
Manchester Coal & Ice Co.....	5.50	
J. Perham	265.15	
Wilson & Bryant.....	2.25	
	<hr/>	\$808.54

SUNDRIES.

A. B. Fellows, sawing wood.....	\$2.25	
Total expenditures	\$7,563.18	
Transferred to unappropriated money account.....	2,004.98	
	<hr/>	\$9,568.16
	<hr/>	

Contingent Expenses.

Appropriation	\$1,000.00	
Transferred from unappropriated money account	1,700.00	
	<hr/>	\$2,700.00
	<hr/>	

EXPENDITURES.

FREIGHT AND CARTAGE.

F. P. Colby	\$7.50	
J. G. Jones	54.58	
	<hr/>	\$62.08

WATER, GAS, ELECTRIC LIGHTS.

Manchester Electric Co., electric lights.....	\$42.75	
People's Gas Light Co., gas.....	276.19	
Union Electric Co., electric lights.....	184.68	
Water commissioners, use of water.....	1,132.00	
	<hr/>	\$1,635.62

MISCELLANEOUS.

Amoskeag Manufacturing Co., drawing boards, lumber	\$64.79	
Nellie M. Atwood, paid for carrying water....	18.50	
W. E. Buck, use of team.....	76.00	
Boston Music Co., music.....	16.64	
Boston Bank Note Co., diplomas.....	212.10	
James Cash, carrying water.....	7.00	
E. R. Coburn Co., stationery.....	2.00	

Oliver Ditson Co., music.....	\$20.82	
Daniels & Downs, engrossing diplomas.....	48.50	
Clarence I. Drayton, carrying water.....	9.00	
Curtis W. Davis, use of team.....	150.00	
Emma J. Ela, paid for carrying water.....	18.50	
Frank W. Fitts, ribbon for diplomas.....	18.95	
Perey Folsom, carrying water.....	2.50	
Ginn & Co., music	28.61	
John Gault, expenses to Portsmouth.....	3.00	
James W. Hill Co., repairing flags.....	1.75	
George Holbrook, clearing snow off roof.....	3.00	
C. A. Hoitt & Co., use of chairs.....	11.80	
S. B. Hope, carrying music teacher to suburban schools	90.00	
C. F. Jack, paid for shoveling snow.....	80.55	
A. A. Jenkins, tuning pianos.....	10.25	
G. M. Morse, carrying water.....	7.00	
W. J. McGuiness, tuning pianos.....	5.50	
Manchester Mills, soap.....	8.00	
Byron E. Moore, carrying water.....	3.00	
Piper & McIntire, rent of piano.....	25.00	
Pay-roll, division No. 2, January.....	12.38	
Pay-roll, division No. 2, March.....	8.00	
Silver, Burdett & Co., music.....	3.20	
Darwin A. Simons, use of chairs.....	12.00	
Inez M. Warren, paid for carrying water.....	11.50	
	<hr/>	\$989.84
Total expenditures		\$2,687.54
Transferred to unappropriated money account.....		12.46
		<hr/>
		\$2,700.00
		<hr/> <hr/>

Care of Schoolrooms.

Appropriation	\$6,500.00
	<hr/> <hr/>

EXPENDITURES.

JANITORS OF SCHOOLHOUSES.

John S. Avery	\$600.00
Nellie M. Atwood	37.00
Edwin N. Baker	349.99
S. H. Batchelder	441.61
Robert Cook	537.50
William F. Conner	499.99
Charles H. Corey	70.80

James Cash	\$13.25	
Fred W. Cate	40.20	
Clarence I. Drayton	17.25	
Emma J. Ela.....	40.00	
Rose Elliott	14.00	
Percy N. Folsom.....	5.00	
Alfred M. Hueber.....	21.00	
F. D. Hanscom.....	99.19	
Varnum H. Hill	499.99	
Charles F. Jack	600.00	
George H. Jack	166.66	
Walter F. Knowlton	3.00	
W. H. H. Nichols	57.20	
W. H. Newry.....	472.51	
W. J. Powers.....	600.00	
Fred E. Perron	34.50	
Josie L. Riddle.....	23.00	
D. T. Robinson.....	350.00	
William Stevens	399.96	
Jason N. Whitcomb.....	41.66	
Inez M. Warren	37.00	
J. S. Washburn	204.19	
	<hr/>	\$6,276.45

SUNDRIES.

Nellie M. Atwood, paid for cleaning.....	\$2.50	
Irving M. Corning, labor cleaning.....	18.00	
Rose Elliott, cleaning	2.00	
C. F. Jack, paid for cleaning.....	81.30	
	<hr/>	\$103.80

Total expenditures	\$6,380.25
Transferred to unappropriated money account.....	119.75
	<hr/>
	<u>\$6,500.00</u>

Evening Schools.

Appropriation	<u>\$1,200.00</u>
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EXPENDITURES.

SALARIES.

Annie B. Angell	\$56.00
Florence Abbott	27.00
L. H. Carpenter	21.00
J. B. Cavanaugh	56.00
Herbert S. Clough	48.00
Charles E. Cochran	114.00

Honorie J. Crough	\$120.00	
W. W. Forbes	56.00	
Margaret G. Linen	59.00	
Mae L. Lovejoy	59.00	
William J. Mooar	59.00	
A. W. Morgan	118.00	
Margaret E. McDermott	49.00	
W. H. H. Nichols.....	14.00	
M. E. Paige	57.00	
A. W. Rowell	56.00	
Elizabeth F. Walsh	59.00	
		<u>\$1,028.00</u>

SUNDRIES.

T. P. Burke, janitor	\$7.00	
F. W. Cate, janitor	9.20	
Varnum H. Hill, janitor	47.20	
J. G. Jones, truckage.....	5.05	
T. A. Lane Co., lamps.....	3.20	
Oscar Perkins, janitor	30.00	
Union Electric Co., lights.....	52.00	
		<u>\$153.65</u>
Total expenditures		\$1,181.65
Transferred to unappropriated money account.....		18.35
		<u>\$1,200.00</u>

Evening School.—Mechanical Drawing.

Appropriation	<u>\$400.00</u>
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EXPENDITURES.

SALARIES.

H. W. Allen	\$72.00	
John M. Kendall	75.00	
		<u>\$147.00</u>

SUNDRIES.

E. R. Coburn Co., paper.....	\$35.00	
W. E. Goodwin, bicycle hub.....	2.00	
John B. Varick Co., triangles.....	6.72	
		<u>\$43.72</u>
Total expenditures		\$190.72
Transferred to unappropriated money account.....		209.28
		<u>\$400.00</u>

Teachers' Salaries.

Balance from last year unexpended.....	\$8,168.60	
Appropriation	\$1,000.00	
Transferred from unappropriated money account	272.21	
		<u>\$89,440.81</u>

EXPENDITURES.**SALARIES.**

December, 1898	\$8,168.60	
January	8,142.45	
February	8,096.51	
March	8,429.00	
April	8,181.88	
May	8,250.06	
June	8,354.28	
September	6,723.91	
October	9,116.85	
November	9,161.56	
December	6,815.71	
		<u>\$89,440.81</u>
Total expenditures		<u>\$89,440.81</u>

Free Text-Books.

Appropriation	<u>\$5,000.00</u>
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EXPENDITURES.**FREE TEXT-BOOKS AND SUPPLIES.**

American Book Co.....	\$488.02
Allyn & Bacon	81.90
E. E. Babb & Co.....	426.62
Boston School Supply Co.....	402.75
T. H. Castor & Co.....	54.97
John B. Clarke Co.....	22.36
The Crimson & White.....	8.50
Eagle Pencil Co.....	26.00
Educational Publishing Co.....	1.00
Earle Ink Co.....	27.40
Frost & Adams Co.....	1.32
W. P. Goodman	20.15
Ginn & Co.....	996.11
J. L. Hammett Co.....	143.35
D. C. Heath & Co.....	98.71

G. F. King & Co.....	\$490.31	
King-Richardson Publishing Co.....	117.41	
Longmans, Green & Co.....	1.80	
Charles E. Lauriat Co.....	2.00	
Maynard, Merrill & Co.....	39.28	
New England Publishing Co.....	3.00	
Perry Picture Co.....	1.40	
Prang Educational Co.....	371.33	
Rand, McNally & Co.....	112.11	
Sibley & Ducker	28.81	
Benjamin H. Sanborn & Co.....	95.61	
Silver, Burdette & Co.....	41.76	
Thompson, Brown & Co.....	331.68	
University Publishing Co.....	18.30	
John B. Varick Co.....	6.80	
	<hr/>	\$4,460.76

SUNDRIES.

W. E. Buck, express, freight, etc.....	\$21.37	
J. G. Jones, truckage.....	13.52	
Fannie L. Sanborn, clerk in superintendent's office	500.00	
	<hr/>	\$534.89
Total expenditures		\$4,995.65
Transferred to unappropriated money account.....		4.35
		<hr/>
		\$5,000.00
		<hr/> <hr/>

Manual Training.

Appropriation	\$600.00
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EXPENDITURES.

SUNDRIES.

F. E. Brown, paid for repairs.....	\$3.20
Chandler & Farquehar, lathe.....	65.00
E. R. Coburn Co., paper.....	1.40
Mrs. N. J. Davis, laundry.....	2.00
W. F. Hubbard, lumber sawed and planed.....	45.70
A. K. Hobbs, leather belting.....	19.60
J. Hodge, lumber	84.93
J. G. Jones, freight and cartage.....	8.65
T. A. Lane Co., labor, electrics and gas.....	46.13
Manchester Hardware Co., hardware.....	3.50
Manchester Electric Co., 1 motor. etc.....	196.41
Palmer, Parker & Co., gumwood.....	3.08

W. C. Toles & Co., vises.....	\$87.75	
John B. Varick Co., hardware.....	32.65	
		<u>\$600.00</u>

New Boiler, Training School.

Appropriation	\$400.00
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EXPENDITURES.

Leach & Mattoon, freight.....	\$20.70	
Edward McCabe, 1 boiler.....	325.00	
B. W. Robinson, work on boiler.....	53.80	
		<u>\$399.50</u>
Total expenditures		\$399.50
Transferred to new boiler, Main-street account.....		.50
		<u>\$400.00</u>

New Boiler, Main Street.

Appropriation	\$400.00	
Transferred from new boiler, Training school account .....	.50	
		<u>\$400.50</u>

EXPENDITURES.

Leach & Mattoon, freight.....	\$21.20	
Edward McCabe, 1 boiler.....	340.00	
B. W. Robinson, labor on boiler.....	39.30	
		<u>\$400.50</u>
Total expenditures		\$400.50

High School Furniture.

Appropriation	\$250.00
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EXPENDITURES.

Heywood Bros. & Wakefield Co., desks and seats.....	\$178.00	
Transferred to unappropriated money account.....	172.00	
		<u>\$350.00</u>

City Library.

Balance from last year unexpended.....	\$1,598.56	
Appropriation	5,000.00	
Overdraft, Boston Bookbinding Co.....	20.54	
	<hr/>	\$6,619.10

EXPENDITURES.

LIBRARIAN AND ASSISTANTS.

Florence E. Whitcher, librarian.....	\$900.00	
Carl C. Fraser	143.50	
Clinton C. Hosmer	76.05	
L. B. James	333.36	
Ray Stearns	14.25	
Mills G. Sturtevant	20.10	
Frank Pherson	1.20	
W. C. Swallow	30.55	
George W. Swallow	448.86	
Albert J. Towne	57.95	
	<hr/>	\$2,025.82

CATALOGUE AND CATALOGUE SUPPLIES.

Library Bureau, index cards, paper, binders..	\$14.65	
Louise E. Newell, copyist.....	303.00	
Edith O. Simmons, copyist.....	404.25	
Temple & Farrington Co., cards, slips, paper	35.59	
M. R. Warren Co., mucilage.....	1.50	
	<hr/>	\$758.99

BINDING, REBINDING, AND RESEWING.

F. J. Barnard & Co.....	\$96.87	
Boston Bookbinding Co.....	107.28	
Temple & Farrington Co.....	351.49	
	<hr/>	\$555.64

WATER, LIGHTS, FUEL, INSURANCE.

L. B. Bodwell & Co., wood.....	\$2.25	
L. B. Bodwell & Co., 126,080 lbs. coal.....	306.76	
Clarence M. Edgerly, insurance premium.....	125.00	
Manchester water commissioners, use of water	16.00	
People's Gas Light Co., gas.....	5.48	
Union Electric Co., electric lights.....	333.46	
	<hr/>	\$788.95

NEW BOOKS.

Trustees of city library.....	\$1,000.00
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SUNDRIES.

The John B. Clarke Co., printing 300 reports..	\$11.03	
The John B. Clarke Co., "Daily Mirror," 1 year	6.00	
N. P. Hunt, postage.....	1.40	
C. F. Livingston, printing covers.....	125.93	
Temple & Farrington Co., envelopes.....	.75	
Florence E. Whitcher, cash paid for cleaning..	79.49	
		<u>\$224.62</u>
Total expenditures		\$5,354.02
Transferred to new account.....		1,265.08
		<u>\$6,619.10</u>

Fire Department.

Appropriation	<u>\$66,000.00</u>
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EXPENDITURES.

SERVICES.

Thomas W. Lane, chief engineer.....	\$1,300.00	
Frank M. Frisselle, assistant.....	175.00	
Clarence R. Merrill, assistant.....	175.00	
John Montplaisir, assistant.....	175.00	
Eugene S. Whitney, assistant.....	175.00	
		<u>\$2,000.00</u>

TEAMSTERS' AND ENGINEERS' PAY-ROLL.

January	\$2,283.06	
February	2,283.43	
March	2,288.89	
April	2,288.93	
May	2,332.13	
June	2,346.14	
July	2,364.43	
August	2,452.68	
September	2,437.14	
October	2,360.93	
November	2,383.68	
December	2,333.14	
		<u>\$28,154.63</u>

CALL MEMBERS.

Engine Company No. 1.....	\$1,690.00
Engine Company No. 1, extra labor.....	8.00
Engine Company No. 2.....	1,680.00
Engine Company No. 2, extra labor.....	8.00

Engine & Ladder Company No. 3.....	\$2,285.00	
Engine & Ladder Company No. 3, extra labor	8.00	
Engine Company No. 4.....	1,690.00	
Engine Company No. 4, extra labor.....	8.00	
Engine & Ladder Company No. 5.....	2,441.66	
Engine & Ladder Company No. 5, extra labor..	8.00	
Engine & Ladder Company No. 6.....	2,450.00	
Engine & Ladder Company No. 6, extra labor..	8.00	
Chemical Engine Company No. 1.....	475.00	
Chemical Engine Company No. 1, extra labor..	4.00	
Hook & Ladder Company No. 1.....	1,820.00	
Hook & Ladder Company No. 1, extra labor....	8.00	
Hose Company No. 1.....	1,685.00	
Hose Company No. 1, extra labor.....	8.00	
Hose Company No. 2.....	1,685.00	
Hose Company No. 2, extra labor.....	8.00	
Hose Company No. 3.....	920.00	
Hose Company No. 3, extra labor.....	8.00	
	<hr/>	\$18,905.66

OTHER LABOR.

F. O. Bartlett	\$90.75	
Peter Burke	2.50	
Irving Bryant	21.00	
Herbert E. Dunbar.....	103.50	
John W. Finn	1.50	
Alfred Firth	21.00	
Charles Gillette	3.00	
Louis F. Kettell	9.00	
Romeo Lemay	4.25	
A. Laberge	2.00	
Aleide Provencher	6.75	
F. W. Tebbetts	42.00	
Thomas Smith	66.00	
	<hr/>	\$373.25

LAUNDRY.

Mrs. J. E. Cutler	\$5.42	
Mrs. Charles Cutler	14.66	
Mrs. M. H. Hulme	49.28	
L. A. Lamson	18.17	
Mrs. F. F. Porter	28.00	
Mrs. Margaret Powers.....	59.22	
Mrs. S. E. Reed	5.40	
Mrs. L. A. Sawyer.....	18.55	
Mrs. C. C. Tinkham	28.26	
	<hr/>	\$226.96

FURNITURE, ETC.

James W. Hill Co., pillow slips, satine, etc., labor	\$38.06	
A. C. Hovey, mop wringer, pail.....	5.30	
C. A. Hoitt & Co., bedding, furniture.....	81.90	
		<hr/>
		\$125.26

PRINTING AND STATIONERY.

The John B. Clarke Co., printing 400 reports	\$38.50	
W. P. Goodman, stationery.....	4.95	
The Nate Kellogg Co., printing cards, circu- lars, etc.	32.25	
Temple & Farrington Co., stationery.....	4.23	
Chemical Engine Company No. 1.....	10.00	
Engine Company No. 1.....	10.00	
Engine Company No. 2.....	10.00	
Engine & Ladder Company No. 3.....	10.00	
Engine Company No. 4.....	10.00	
Engine & Ladder Company No. 5.....	10.00	
Engine & Ladder Company No. 6.....	10.00	
Hose Company No. 1.....	10.00	
Hose Company No. 2.....	10.00	
Hose Company No. 3.....	10.00	
Aërial Truck Company No. 1.....	10.00	
		<hr/>
		\$189.93

WATER, GAS, ELECTRIC LIGHTS, TELEPHONE.

New England Telephone & Telegraph Co., use of telephones	\$257.61	
People's Gas Light Co., gas.....	776.07	
Union Electric Co., lights.....	70.43	
Water commissioners, use of water.....	560.75	
		<hr/>
		\$1,664.86

FUEL.

Annis Flour & Grain Co., wood.....	\$16.00	
L. B. Bodwell & Co., 42 tons coal.....	330.50	
L. B. Bodwell & Co., 489,220 lbs. coal.....	1,190.29	
Fletcher Brown, wood	15.00	
S. L. Flanders, wood	9.75	
		<hr/>
		\$1,561.54

FREIGHT AND CARTAGE.

Leach & Mattoon.....	\$6.76	
J. W. Wilson & Son.....	1.60	
		<hr/>
		\$8.36

SUPPLIES.

Amoskeag Manufacturing Co., 4 steel bars....	\$8.50
Boston Belting Co., hose.....	63.30
Clark M. Bailey, waste.....	32.64
Cincinnati Regalia Co., 50 hatbands.....	5.40
Cavanaugh Brothers, 5 horses.....	1,000.00
Cornelius Callahan Co., hydrant gate.....	35.00
Cornelius Callahan Co., bottles, straps, sponges, Boston pipe, etc.....	210.57
W. E. Deerow, adjusting striking machine...	10.00
Daniels-Cornell Co., soap.....	24.00
L. G. Flanders, matches	2.40
S. L. Flanders, oil, etc.....	3.15
T. F. Fifield, oil, sugar.....	5.10
H. Fradd & Co., oil.....	1.00
D. W. Fisher & Co., dusters.....	10.00
T. F. Hannaford, brooms	4.75
Kimball & Hobbs, packing.....	.10
T. A. Lane Co., lamps and chimney.....	2.00
Manchester Locomotive Works, valves, iron, etc.	16.57
Pike & Heald Co., copper, measure, tank, etc.	4.15
Plumer & Holton, reefers, overalls, jackets....	198.75
C. N. Perkins & Co., hose, etc.....	17.35
F. O. Pierce Co., bicarbonate of soda.....	34.00
Stark Mills, duck .....	.48
Stovene Manufacturing Co., metal polish.....	12.00
Sulpho-Naphthol Co., sulpho-naphthol.....	24.00
Talbot Dyewood & Chemical Co., soda.....	19.27
Vacuum Oil Co., oil.....	6.50
John B. Varick Co., hardware.....	246.37
N. J. Whalen, soap.....	1.00
G. F. Whittier, oil.....	1.00

 \$1,999.35

PLUMBING, REPAIRS, ETC.

Brodie Electric Co., repairing instruments, etc.	\$29.71
Boston Belting Co., repairing hose.....	3.50
G. B. Forsaith, labor and material, hose.....	4.04
Head & Dowst Co., lumber.....	7.41
J. Hodge, lumber and labor.....	11.98
C. H. Hutchinson, castings.....	3.25
T. A. Lane Co., lamps, sockets, switches, etc...	50.68
H. F. W. Little, filing saws.....	.50
Manchester Locomotive Works, repairs.....	28.40
Pike & Heald Co., material and labor on lights, etc.	5.10
Edward Sargent, repairs on Chemical.....	.70

C. A. Trefethen, repairing clocks, flask.....	\$2.00	
Union Manufacturing Co., plating.....	.50	
D. B. Varney, castings, sawdust.....	2.80	
		<hr/>
		\$150.57

VETERINARY SERVICES AND MEDICINES.

A. F. Abbott, V. S., services and medicine.....	\$134.65	
J. Alexander, V. S., liniment.....	6.00	
C. M. Bailey, V. S., services and medicine....	18.50	
Frank J. Clark, fixing horses' teeth.....	2.50	
Cavanaugh Brothers, horses and care.....	286.10	
A. L. Dodge, V. S., services and medicine.....	31.55	
Dyer & Chipman, medicine, etc.....	9.08	
Lamprey & Dow, alcohol and witch hazel.....	3.60	
A. D. Smith, medicine.....	11.93	
Snelling & Woods, medicine, etc.....	15.45	
F. L. Way, witch hazel.....	1.75	
		<hr/>
		\$521.11

CARRIAGE REPAIRS.

Amoskeag Manufacturing Co., iron shafts and truck castings	\$1.23	
John E. Hobbs, set runners for hose carriage	75.00	
Manchester Locomotive Works, repairing en- gines	2,203.95	
Donald McDonald, repairs and material.....	239.75	
J. B. McCrillis & Son, repairs.....	339.27	
E. V. Rowe, cash paid for material for sled.....	14.48	
Sanborn Carriage Co., repairs.....	11.30	
		<hr/>
		\$2,884.98

BLACKSMITHING.

J. M. Brouillette	\$12.50	
A. B. Colby	183.45	
Connor & Grossman	14.00	
Thomas Hickey	32.50	
John McSweeney	235.25	
John N. Peavey	20.50	
J. O. Tremblay Horseshoeing Co.....	117.25	
L. P. Tremblay	168.00	
John P. Woodbury Co.....	107.00	
		<hr/>
		\$890.45

HAY, GRAIN, ETC.

Adams Brothers	\$94.94	
Brown & Titus	422.28	
Adam Dickey	72.93	
Gage & McDougall	1,247.67	

C. R. Merrill	\$2,932.43	
Jonathan McAllister	27.46	
J. F. McCannon	20.61	
Partridge Brothers	224.59	
	<hr/>	\$5,042.91

HARNESS REPAIRS AND SUPPLIES.

W. H. Adams	\$123.40	
J. A. Ballou	12.15	
Charles E. Berry	8.53	
J. Hurd Brown	3.25	
W. E. Greeley	1.80	
H. C. Ranno & Son.....	83.46	
	<hr/>	\$232.59

SUNDRIES.

James Baldwin Co., sawdust.....	\$0.40	
W. B. Corey, use of horses.....	111.75	
Cavanaugh Brothers, use of horse.....	19.50	
E. H. Holmes, use of horse.....	10.00	
John Horrigan, switch and labor.....	1.27	
T. W. Lane, paid for express, etc.....	6.85	
Edward Sears, reeving ropes.....	5.00	
Edward Sargent, repairing hose.....	.40	
	<hr/>	\$155.17

Total expenditures	\$65,087.58
Transferred to unappropriated money account.....	912.42
	<hr/>
	<u>\$66,000.00</u>

Fire-Alarm Telegraph.

Appropriation	\$1,000.00	
Transferred from unappropriated money account	500.00	
	<hr/>	\$1,500.00

EXPENDITURES.

LABOR.

January	\$52.00
February	48.00
March	54.00
April	50.00
May	54.00
June	52.00
July	48.00

August	\$54.00	
September	52.00	
October	52.00	
November	52.00	
December	46.00	
	<hr/>	\$614.00
E. A. Sears		\$8.50

SUPPLIES.

American Electrical Works, wire.....	\$95.69	
Anchor Electric Co., supplies.....	33.54	
James Baldwin Co., brackets.....	1.14	
Brodie Electric Co., rewinding ticker magnet..	2.45	
Fletcher Brown, poles.....	37.50	
James R. Carr Co., paint.....	6.79	
W. E. Decrow, supplies.....	255.85	
J. Hodge, lumber	25.51	
C. H. Hutchinson, hooks, iron, screws.....	1.25	
T. A. Lane Co., labor on pipe.....	1.79	
Morgan, Crossman & Co., stamp.....	.65	
New England Telephone & Telegraph Co., 1 set		
"Come-alongs"	5.55	
Edward Sargent, keys .....	.30	
John B. Varick Co., hardware.....	33.98	
	<hr/>	\$501.99

SUNDRIES.

W. B. Corey, cartage.....	\$8.50	
Leach & Mattoon, cartage.....	2.85	
John W. Wilson & Son, cartage.....	.60	
	<hr/>	\$11.95
Total expenditures.....		\$1,136.44
Transferred to unappropriated money account.....		363.56
		<hr/>
		\$1,500.00
		<hr/>

Hydrant Service.

Appropriation	<u>\$18,100.00</u>
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EXPENDITURES.

Water commissioners, rent of hydrants.....	<u>\$18,100.00</u>
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Police Department.—Station.

Appropriation	<u>\$2,800.00</u>
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EXPENDITURES.

SERVICES.

Frank P. Wiggin, janitor.....	\$638.75
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WATER, GAS, ELECTRIC LIGHTS, FUEL.

L. B. Bodwell & Co., 20 tons coal.....	\$115.00
L. B. Bodwell & Co., 182,230 lbs. coal.....	443.37
F. X. Chenette, wood.....	14.00
Manchester Coal & Ice Co., 10 tons coal.....	57.50
Manchester Water-Works, use of water.....	175.92
People's Gas Light Co., gas.....	48.22
E. V. Turcotte, 1 cord slabs.....	4.50
Union Electric Co., electric lights.....	607.88
J. F. Wyman, 2 tons coal.....	13.50
	<hr/>
	\$1,479.89

LAUNDRY, SANITARY, ETC.

Mary Barrett, cleaning	\$4.05
Mary Bartlett, cleaning.....	3.86
Clark M. Bailey, pails, dusters, matches, etc...	15.87
John Driscoll Co., wash boiler, mop handles, ash barrels, etc.....	10.45
J. S. Holt & Co., soap.....	12.50
J. N. Lacourse & Co., soap.....	1.00
Lavasa Manufacturing Co., 1 barrel Lavasa....	6.42
John Morley, cleaning	90.80
Joseph Sikes, cleaning	15.30
F. H. Thurston, germol.....	17.50
F. H. Thurston, medicine.....	16.55
John B. Varick Co., dustpans, brooms, etc....	1.78
Mrs. J. F. Wiggin, washing	62.36
	<hr/>
	\$258.44

REPAIRS, ETC.

J. J. Abbott, paint.....	\$12.71
E. M. Bryant & Co., washers, switch.....	.70
D. F. Cressey, repairing chains, bunks, etc....	13.01
E. R. Coburn Co., 24 flags.....	1.00
W. E. Dealand, repairing clocks.....	3.00
James W. Hill Co., felt, towels.....	7.54
C. A. Hoitt & Co., repairing chairs, 1 mirror...	1.60
T. A. Lane Co., plumbing, etc.....	35.28
B. F. Shepard, repairing lock, etc.....	.50
Harry A. Piper, labor and material	1.13
Temple & Farrington Co., repairing clock.....	1.50
G. E. Wentworth, brushes.....	5.55
C. L. Wolf, cleaning stoves and pipes.....	5.30
	<hr/>
	\$88.82

SUNDRIES.

L. B. Bodwell & Co., ice.....	\$7.44	
T. F. Fifield, oil.....	1.10	
W. D. Ladd & Co., crackers.....	4.90	
Edward Sears, reeving ropes.....	5.00	
		<u>\$18.44</u>
Total expenditures		\$2,484.34
Transferred to unappropriated money account.....		315.66
		<u>\$2,800.00</u>

Police Department.—Court.

Appropriation	\$2,900.00	
Transferred from unappropriated money account	38.94	
		<u>\$2,938.94</u>

EXPENDITURES.

SERVICES.

John C. Bickford, clerk.....	\$600.00	
Isaac L. Heath, police justice.....	1,500.00	
George Prescott, associate justice.....	300.00	
		<u>\$2,400.00</u>

PRINTING AND STATIONERY.

A. S. Campbell & Co., printing civil dockets, etc.	\$106.00	
John B. Clarke Co., printing blanks.....	12.00	
W. P. Goodman, stationery.....	.85	
Temple & Farrington Co., stationery.....	2.13	
		<u>\$120.98</u>

SUNDRIES.

Healy and Cassidy, conveying prisoners.....	\$25.00	
M. J. Healy, paid witness fees, etc.....	392.96	
		<u>\$417.96</u>
Total expenditures		<u>\$2,938.94</u>

Police Department.—Commission.

Appropriation	<u>\$40,000.00</u>
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EXPENDITURES.

SERVICES.

Michael J. Healy, chief of police.....	\$2,000.01	
John F. Cassidy, deputy chief.....	1,500.00	
Harry Loveren, chairman of commission, salary	150.00	
F. P. Carpenter, commissioner, salary.....	100.00	
N. S. Clark, commissioner, salary.....	100.00	
A. B. Brown, police matron.....	423.00	
Regular patrol	29,982.13	
Extra time	56.82	
Special patrol	2,779.79	
	<hr/>	\$37,091.75

FEEDING PRISONERS.

Hannah Green	\$284.40	
W. D. Ladd & Co.....	20.80	
Joseph Quirin	17.70	
	<hr/>	\$322.90

PRINTING AND STATIONERY.

John B. Clarke Co., printing envelopes, head- ings	\$10.50	
E. R. Coburn Co., stationery.....	3.50	
W. P. Goodman, books and stationery.....	44.95	
	<hr/>	\$58.95

PATROL SYSTEM EXPENSES.

A. F. Abbott, V. S., attendance and medicine..	\$6.00
Ame & Co., Standard Food.....	9.75
W. H. Adams, repairing harnesses	9.10
American Electrical Works, vitriol, wire.....	25.48
Automatic Time Stamp & Register Co., ribbons	12.00
E. M. Bryant & Co., 1 spring.....	.15
Clark & Estey, chamois, etc.....	3.85
William Corey, boarding horse.....	16.00
City farm, carrots	15.00
The Electric Gas Lighting Co., supplies.....	2.28
Gordon Battery Co., glass cells, recharges....	151.30
Kimball Carriage Co., repairing harnesses....	13.40
T. A. Lane Co., 1 roll tape.....	.25
Lovejoy & Stratton, badges.....	8.50
Municipal Signal Co., 1 circuit closing drop...	10.00
C. R. Merrill, hay, straw.....	304.08
W. F. Nye, harness dressing.....	10.20
New England Telephone & Telegraph Co., rent of private line to November 30, 1900.....	114.00
Pettingell-Andrews Co., electric supplies.....	118.55

Sanborn Carriage Co., repairs.....	\$58.50
J. F. Woodbury Co., horseshoeing.....	68.05
N. J. Whalen, repairing halter.....	.35
Ziegler Electric Co., supplies.....	71.74

 \$1,028.53

HARDWARE AND REPAIRS.

J. J. Abbott, paint.....	\$20.32
Amoskeag Manufacturing Co., repairing elec- tric plate	1.25
E. M. Bryant & Co., material and labor.....	4.96
G. B. Forsaith, labor.....	2.80
Head & Dowst Co., lumber.....	18.11
T. A. Lane Co., socket, plug, etc.....	.85
Manchester Hardware Co., hardware.....	71.36
Pike & Heald Co., rubber bulb, making box...	2.82
John B. Varick Co., hardware.....	4.97
D. B. Varney, lumber	1.08
G. H. Warren, lumber	4.64

 \$133.16

TELEPHONE AND TELEGRAPH.

New England Telephone & Telegraph Co., use of telephones	\$235.50
Western Union Telegraph Co., telegrams.....	9.20

 \$244.70

BICYCLE REPAIRS.

John C. Badger	\$7.50
Edgar L. Cooledge	8.25
D. B. Hutchins	12.00
Leon E. Magoon.....	8.10
John Nixon	12.25
E. E. Whedon	11.50

 \$59.60

SUNDRIES.

Boston & Maine Railroad, freight.....	\$0.48
P. C. Cheney Co., waste.....	8.80
Lyman W. Colby, photographing criminals...	47.00
J. G. Ellinwood, photographing criminals.....	4.00
A. K. Hobbs, washers.....	.10
Kimball & Hobbs, rubber and cement.....	2.00
F. H. Thurston, prescriptions filled.....	1.80
Union Manufacturing Co., nickel plating.....	.10

 \$64.28

Total expenditures	\$39,003.87
Transferred to unappropriated money account.....	996.13

 \$40,000.00

Repairs of Buildings.

Balance from last year unexpended.....	\$1,164.99	
Appropriation	3,500.00	
Transferred from unappropriated money account	419.49	
		<u>\$5,084.48</u>

EXPENDITURES.

CITY LIBRARY.

D. J. Adams, repairing door check.....	\$2.00	
J. J. Abbott, glass and setting.....	3.25	
James Briggs & Son, hose and ash barrels....	10.50	
C. B. Brown, roofing material.....	47.96	
Barton & Co., linoleum	216.25	
E. M. Bryant & Co., lamps.....	17.74	
F. W. Blood Roofing Co., repairing roof.....	7.83	
James R. Carr Co., kalsomine and labor.....	2.89	
W. M. Darrah & Co., material and labor.....	5.44	
A. L. Franks & Co., lamps.....	28.89	
George Holbrook, removing snow, lumber, etc.	50.40	
T. A. Lane Co., plumbing repairs, etc.....	5.45	
J. Y. McQueston Co., chair and tables.....	14.00	
Pike & Heald Co., repairing radiator, gas pipes	22.29	
Harry A. Piper, sash and labor.....	1.85	
Robie Consolidated Concrete Co., concreting..	39.38	
Joseph St. Laurent, lumber and labor.....	32.60	
Z. B. Stuart, masonwork	25.55	
B. F. Shepard, repairing locks, etc.....	12.65	
W. H. Sullivan, paint and labor.....	41.17	
J. Tremblay, repairing rod.....	1.00	
John B. Varick Co., wringer.....	2.00	
		<u>\$591.09</u>

POLICE STATION.

C. B. Brown, roofing material.....	\$50.30	
Joel Daniels & Co., paint.....	13.39	
Eastman Brothers, masonwork, repairing locks	4.20	
George Holbrook, repairs	2.75	
T. A. Lane Co., plumbing repairs.....	161.59	
Manchester Concrete Co., concreting wagon room	130.67	
C. S. McKean, repairing chairs, etc.....	67.17	
Merrill & Laird, repairing steam boiler, locks, etc.	77.36	
Stendorfer Bronzing Co., bronzing radiators..	68.00	
Joseph St. Laurent, laying floors, etc.....	233.37	
D. A. Simons, duck, excelsior, labor.....	5.94	
John B. Varick Co., oil.....	1.50	
		<u>\$816.24</u>

ENGINE HOUSES.

C. B. Brown, roofing material, etc.....	\$55.03
J. F. Burton, 1 chimney cap.....	9.00
James R. Carr Co., painting, glazing, etc.....	64.65
Joel Daniels & Co., setting glass.....	14.30
W. M. Darrah & Co., material and labor.....	11.82
A. L. Franks & Co., lamps, labor.....	13.70
G. B. Forsaith, grates.....	103.30
W. E. Goodwin, plumbing, etc.....	47.89
George Holbrook, material and labor.....	3.25
J. Hodge, glass, etc.....	1.20
James W. Hill Co., 3 shades.....	2.65
Head & Dowst Co., lumber.....	1.53
J. B. Huntley, plumbing, etc.....	41.73
T. A. Lane Co., labor on steam pipes, etc.....	58.80
F. S. Lewis, repairing roof.....	5.68
J. H. Mendell & Co., clapboards and labor.....	6.66
Charles F. McDonald, plumbing material and labor	33.70
Merrill & Laird, repairing chimney.....	27.24
Pike & Heald Co., plumbing material and labor	128.62
Robie Consolidated Concrete Co., concreting..	79.20
John A. Sargent, paint and labor.....	18.26
James A. Scully, matting, etc.....	86.58
Joseph St. Laurent, lumber and labor.....	1,145.79
John B. Varick Co., paint, screen cloth.....	22.60
C. L. Wolf, plumbing material and labor.....	221.57

 \$2,204.73

COURT HOUSE.

J. J. Abbott, whitewash, brush, etc.....	\$1.85
James Briggs & Son, repairing grate.....	.85
S. C. Forsaith Machine Co., 1 grate and labor	46.20
G. B. Forsaith, labor on grates.....	2.00
A. K. Hobbs, hose and reel.....	6.25
T. A. Lane Co., plumbing material and labor	16.30
Manchester Hardware Co., lawn rake.....	.70
Merrill & Laird, repairing steam boiler.....	25.76
Joseph St. Laurent, lumber and labor.....	4.75
John B. Varick Co., tools and hardware.....	10.22

 \$114.88

SCHOOLS.

Chickering & O'Connell, bronze tablet.....	\$36.00
John Campbell, posts.....	10.00
Robie Consolidated Concrete Co., repairs.....	23.59
J. F. Seaward, fence, one half cost.....	15.33
Joseph St. Laurent, carpenter work, etc.....	121.59

 \$206.51

BATTERY BUILDING.

James R. Carr Co., paint and labor.....	\$120.42	
J. B. Huntley, plumbing material and labor...	49.43	
H. J. Lawson, iron, solder, nails, labor.....	19.64	
John K. Wilson, material and labor.....	20.41	
		<hr/>
		\$209.90

SUNDRIES.

John Bryson, paint and labor, city hall.....	\$29.87	
James Briggs & Son, furnace grate and labor, ward 5 ward room.....	11.00	
James R. Carr Co., paint and labor.....	55.91	
Connor Brothers, plumbing, ward 5 ward room	47.79	
John Driscoll Co., labor on furnace, ward 5 ward room	12.00	
W. A. Elliott, labor at ward 2 ward room....	2.83	
P. Fifty, paint, glass, labor.....	11.11	
James P. Finn, labor at pesthouse.....	8.64	
W. E. Goodwin, gas piping, ward 2 ward room	13.67	
Head & Dowst Co., material and labor, sundry places	72.09	
James W. Hill Co., duck, etc.....	1.54	
T. A. Lane Co., plumbing, city hall.....	.25	
Merrill & Laird, repairing chimney, city scales	8.45	
C. C. Perry, use of team.....	5.00	
G. W. Reed, use of hack.....	5.00	
Joseph St. Laurent, bookcase, engineer.....	45.50	
Joseph St. Laurent, lumber and labor, sundry places	178.30	
James A. Scully, 14 chairs.....	17.74	
C. A. Trefethen, care of tower clocks.....	345.30	
C. A. Trefethen, changing weights, sundry schoolhouses	51.50	
John B. Varick Co., screen cloth, etc.....	4.78	
John K. Wilson, plank, spikes, labor.....	12.84	
		<hr/>
		\$941.11
Total expenditures		<hr/>
		\$5,084.48
		<hr/>

Amoskeag Schoolhouse.

Balance from last year unexpended.....	\$894.66
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EXPENDITURES.

ARCHITECT.

Chickering & O'Connell	\$214.23
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SUNDRIES.

J. H. Mendell & Co., extras and grading.....	\$580.75	
Manchester Concrete Co., concreting.....	99.68	
		<u>\$680.43</u>
Total expenditures		<u><u>\$894.66</u></u>

Pearl-street Schoolhouse Repairs.

Balance from last year unexpended.....	<u>\$33.75</u>
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EXPENDITURES.

Manchester Concrete Co., labor, basement.....	<u>\$33.75</u>
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Water-Works.

Balance from last year unexpended.....	\$33,928.08	
Cash received from water rents.....	<u>133,436.41</u>	
		<u><u>\$167,364.49</u></u>

EXPENDITURES.

LABOR.

January	\$1,384.82	
February	1,687.20	
March	1,437.71	
April	1,306.85	
May	2,203.51	
June	1,988.34	
July	1,861.72	
August	2,218.43	
September	1,723.24	
October	1,802.30	
November	2,198.81	
December	<u>1,733.19</u>	
		\$21,546.12
E. J. Daniels, labor.....	\$32.10	
Robert L. Stevens, labor and team.....	3.00	
Street and park commissioners, repairing Beech street	<u>7.00</u>	
		\$42.10

GENERAL EXPENSES.

Henry Chandler, salary as clerk of board....	\$100.00
Henry Chandler, 17 meetings of board.....	68.00

William C. Clarke, 18 meetings of board.....	\$72.00	
Frank Dowst, 14 meetings of board.....	56.00	
F. W. Elliott, dinners for help repairing gears	17.00	
Alpheus Gay, 27 meetings of board.....	108.00	
Charles H. Manning, 16 meetings of board....	64.00	
Charles T. Means, 17 meetings of board.....	68.00	
Harry E. Parker, 17 meetings of board.....	68.00	
C. A. Scarbor, supper and lunches.....	63.50	
G. L. Tatro, use of boat.....	10.00	
A. C. Wallace estate, 1 meeting of board.....	4.00	
G. W. Wales, dinners.....	4.00	
C. K. Walker, salary as superintendent.....	1,999.99	
C. K. Walker, gas.....	21.46	
C. K. Walker, express and telegrams.....	15.68	
C. K. Walker, postage.....	20.00	
C. K. Walker, sundries.....	21.32	
		<hr/>
		\$2,780.95

PRINTING, STATIONERY, ADVERTISING.

John B. Clarke Co., printing bills, blanks, notices	\$100.90	
John B. Clarke Co., printing 650 reports and plates	49.00	
John B. Clarke Co., advertising 1 line 19 times	4.75	
E. R. Coburn Co., stationery.....	9.43	
Rumford Printing Co., 2 half-tones.....	4.99	
Stewart, Warren & Co., day and meter books	56.60	
Union Publishing Co., advertising 1 line 17 times	4.25	
		<hr/>
		\$229.92

TEAMS, TELEPHONE, FUEL.

L. B. Bodwell & Co., 40 tons, 1,270 lbs. coal..	\$254.06	
Fred E. James, use of teams.....	11.50	
Mitchell Coal & Coke Co., 65,900 lbs. coal.....	85.34	
New England Telephone & Telegraph Co., use of telephones	112.22	
J. A. & A. W. Walker, 235 tons, 1,800 lbs. coal..	826.40	
		<hr/>
		\$1,289.52

LAND.

Estate of J. F. Cahill, land.....	\$175.00	
Ellen M. Tyrrell, land and buildings.....	1,250.00	
		<hr/>
		\$1,425.00

LEGAL SERVICES.

W. H. Drury, making deeds, etc.....	\$15.00	
Dana W. King, recording deeds.....	1.85	
William Morrill, recording deeds, etc.....	2.90	
		<hr/>
		\$19.75

DAMAGES.

Barlow & Nye, damage to goods from water..	\$28.93
E. R. Barry, damage to goods from water.....	65.08
E. Booth, damage to fruit from water.....	98.40
Ada Cross, final settlement of claim for damages for death of Bert S. Cross.....	250.00
E. Dordoni, damage to fruit from water.....	150.00
Eastman Brothers, repairing brick wall, cellar under W. A. Ingram & Co.'s store.....	11.25
Tilton F. Fifield, damage to goods from water	27.00
W. A. Ingram & Co., damage to goods from water	10.00
M. F. Sherry, damage to goods from water....	40.00

 \$680.66

BLACKSMITHING, FREIGHT, HARDWARE.

Boston & Maine Railroad, freight.....	\$1,653.13
A. B. Colby, sharpening tools, etc.....	5.50
D. F. Cressey, sharpening tools.....	207.59
Manchester Hardware Co., hardware.....	43.65
John B. Variek Co., hardware.....	516.98

 \$2,426.85

SUPPLIES.

J. J. Abbott, 12 rolls paper.....	\$3.00
Adams Brothers, cement and lime.....	34.95
American Steam Gauge Co., supplies.....	122.00
Boston Lead Manufacturing Co., solder.....	17.34
Builders' Iron Foundry, branches, reducers, etc.	206.01
Chadwick Lead Works, pipe.....	33.23
A. N. Clapp, kerosene.....	42.15
Chapman Valve Manufacturing Co., gear, spindle, etc.	25.44
P. C. Cheney Co., waste.....	4.13
S. B. Dickey, manure	80.25
Edson Manufacturing Co., pump head, socket	4.96
Garlock Packing Co., packing.....	5.92
Glauber Brass Manufacturing Co., curb stops, nipples, etc.	330.90
Hays Manufacturing Co., stop boxes.....	220.00
C. H. Hutchinson, 1 flue cleaner.....	2.50
Head & Dowst Co., lumber.....	54.89
J. Hodge, meter boxes, lumber.....	70.61
A. K. Hobbs, packing.....	26.58
Ingersoll-Sergeant Drill Co., steam drill.....	194.80
Ingersoll-Sergeant Drill Co., supplies	20.00
Kimball & Hobbs, washers.....	2.25

C. M. Kemp Manufacturing Co., ratchet stocks	\$12.80
T. A. Lane Co., washers, glasses, etc.....	25.53
Lead Lined Iron Pipe Co., pipe.....	1,051.58
Leonard & Ellis, oil.....	48.48
Ludlow Valve Manufacturing Co., gates, etc..	264.95
Lynn Electric Novelty Co., searchlights.....	7.20
Manchester Locomotive Works, castings, labor, etc.	392.32
McNeal Pipe & Foundry Co., pipe.....	7,879.06
Flora A. Miller, dressing.....	107.25
Neptune Meter Co., meters, couplings, etc....	283.95
Norwood Engineering Co., hydrants, etc....	722.65
National Meter Co., meters.....	241.22
Perry Oil Co., oil.....	106.97
Pratt & Cady Co., pipe.....	6.25
Pike & Heald Co., valves, ells, unions, etc....	30.09
Rensselaer Manufacturing Co., gates.....	200.00
Rice & Co., pipe.....	18.89
Richards & Co., lead.....	1,853.38
C. G. Stevens, manure.....	81.00
I. F. Sturtevant, lumber	19.30
Taunton Locomotive Manufacturing Co., east- ings	3.96
Thomson Meter Co., meters.....	376.20
Union Water Meter Co., meters.....	630.14
U. S. Cast Iron Pipe & Foundry Co., offsets....	23.03
D. B. Varney, covers.....	2.00
G. R. Vance, dippers, pails, etc.....	6.95
A. C. Wallace estate, lumber.....	96.48
J. H. Wiggin & Co., soap.....	3.84
G. E. Winslow, indicating and receiving appa- ratus	175.00
G. C. Whorf & Co., washers.....	1.75
Henry R. Worthington, valves, floats, springs	367.43
W. A. Wood & Co., waste.....	44.16

 \$16,585.72

REPAIRS.

Amoskeag Manufacturing Co., material and labor changing gears.....	\$52.80
John T. Beach, repairing skids	2.75
E. M. Bryant & Co., electrical work.....	724.60
Head & Dowst Co., material and labor.....	246.25
C. H. Hutchinson, repairs.....	10.20
Hersey Manufacturing Co., repairing meters..	35.56
E. A. G. Holmes, labor and material.....	92.16
T. A. Lane Co., labor on lights, etc.....	7.93
Manchester Concrete Co., concreting.....	36.20

National Meter Co., repairing meters.....	\$119.87	
Pike & Heald Co., material and labor.....	2.61	
C. H. Robie Concrete Co., concreting.....	246.00	
Robie Consolidated Concrete Co., concreting..	142.77	
A. & E. E. Reed, masonwork.....	13.60	
L. & W. T. Seiberlich, paint and labor.....	787.62	
Gustav and Henrietta Schlaugk, right of way to lay and maintain water pipe in their land....	100.00	
B. F. Shepard, repairing locks.....	2.20	
Thomson Meter Co., repairing meters.....	39.46	
Union Water Meter Co., repairing meters.....	287.16	
	<hr/>	\$2,949.74

SUNDRIES.

Town of Auburn, taxes.....	\$173.97	
Dudley & Dougherty, plans and estimates.....	21.00	
J. G. Ellinwood, 12 photographs.....	9.00	
Fred L. Follansbee, moving buildings.....	75.00	
Amos Latuch, drawing wood.....	41.38	
L. D. McDonald, cutting and delivering poles..	150.00	
Sarah C. Pennock, taxes, etc.....	105.40	
Putney & Wallace, board of divers.....	11.50	
Sinking fund commissioners, amount of sink- ing fund	5,000.00	
Sinking fund commissioners, hydrant service	18,100.00	
G. W. Townsend, services as diver.....	86.55	
J. W. Wilson & Son, work at station.....	9.00	
	<hr/>	\$23,782.80
Total expenditures		\$73,759.13
Transferred to interest account.....		39,551.00
Transferred to new account.....		54,054.36
		<hr/>
		\$167,364.49
		<hr/>

Pine Grove Cemetery.

Appropriation	\$8,500.00	
Received from trustees of cemetery fund.....	100.00	
Transferred from unappropriated money account	38.09	
	<hr/>	\$8,638.09
		<hr/>

EXPENDITURES.

LABOR.

January	\$155.26
February	209.70
March	154.76

PINE GROVE CEMETERY.

433

April	\$205.01	
May	867.44	
June	722.97	
July	495.23	
August	645.31	
September	537.50	
October	352.75	
November	579.25	
December	154.76	
	<hr/>	\$5,079.94

PLANTS, TREES, LOAM, ETC.

Brown Brothers Co., trees.....	\$16.00	
A. S. Chadbourn, trees.....	7.50	
R. G. Chase Co., ornamental trees.....	20.00	
City farm, lawn dressing.....	16.50	
A. G. Hood, lawn dressing, plants, etc.....	321.37	
Joseph Poor, gravel.....	8.80	
James Thompson, 690 loads loam.....	1,035.00	
John B. Varick Co., seed.....	11.90	
Mrs. C. C. Webster, 429 loads clay.....	429.00	
Wilson & Bryant, loam.....	93.00	
	<hr/>	\$1,959.07

WATER, TELEPHONE, FUEL.

Manchester water commissioners, use of water	\$692.70	
New England Telephone & Telegraph Co., use of telephones	51.99	
Wilson & Bryant, coal.....	25.00	
	<hr/>	\$769.69

PRINTING AND STATIONERY.

John B. Clarke Co., printing receipts, etc.....	\$13.35	
E. R. Coburn Co., stationery.....	1.75	
W. P. Goodman, stationery.....	1.40	
O. D. Knox, postmaster, envelopes.....	3.18	
W. E. Moore, printing circulars, etc.....	3.50	
	<hr/>	\$23.18

REPAIRS AND IMPROVEMENTS.

John Driscoll Co., dippers	\$2.75	
Head & Dowst Co., lumber	7.09	
J. Hodge, lumber and labor.....	14.55	
Hampden Corundrum Wheel Co., 1 sharpener..	4.15	
R. K. Horne, flower pots.....	1.70	
C. H. Hutchinson, labor on fence, etc.....	23.51	
T. A. Lane Co., pipe and labor on water pipes	24.25	
Palmer & Garmons, repairing and setting stones	5.00	

Pike & Heald Co., dippers and repairing stove	\$2.75	
J. F. Seaward, lumber and labor.....	92.75	
L. & W. T. Seiberlich, whitening ceilings.....	6.60	
C. H. Robie Concrete Co., repairs.....	93.57	
G. R. Vance, iron and nails.....	1.01	
John B. Varick Co., hardware and tools.....	226.95	
C. L. Wolf, pipe, labor, etc.....	159.31	
		<u>\$665.94</u>

TEAM EXPENSES.

Adams Brothers, oats, hay.....	\$49.11	
Brown & Titus, grain.....	12.05	
George Dunnington, harness repairs.....	5.90	
Partridge Brothers, grain	19.55	
J. O. Tremblay Horseshoeing Co., shoeing horse	13.00	
		<u>\$99.61</u>

SUNDRIES.

L. B. Bodwell & Co., ice.....	\$12.66	
F. X. Chenette, cleaning vault.....	3.00	
E. F. Jones, services as clerk of trustees.....	25.00	
		<u>\$40.66</u>
Total expenditures		<u><u>\$8,638.09</u></u>

Valley Cemetery.

Appropriation	\$3,000.00	
Transferred from unappropriated money account	75.37	
		<u>\$3,075.37</u>

EXPENDITURES.

LABOR.

January	\$58.47	
February	77.42	
March	62.60	
April	99.02	
May	277.32	
June	216.14	
July	208.32	
August	258.78	
September	203.98	
October	200.11	
November	176.99	
December	87.05	
		<u>\$1,926.20</u>

VALLEY CEMETERY.

435

B. F. Bascomb	\$141.13	
F. Goings	36.00	
	<hr/>	\$177.13

WATER AND TELEPHONE.

Water commissioners, use of water.....	\$79.35	
New England Telephone & Telegraph Co., use of telephones	36.00	
	<hr/>	\$115.35

PLANTS, TREES, LOAM, ETC.

B. F. Bascomb, loam, etc.....	\$40.50	
A. S. Chadbourn, trees.....	7.50	
A. G. Gray, gravel.....	7.70	
Frank Goings, loam.....	20.00	
J. Francis, plants	55.11	
A. G. Hood, lawn dressing, plants.....	38.25	
W. A. Ingram, 1 bouquet.....	2.00	
Thomas Mason, sand	3.25	
Ray Brook Garden Co., tulips.....	3.50	
	<hr/>	\$177.81

PRINTING AND STATIONERY.

O. D. Knox, postmaster, envelopes.....	\$2.12	
Temple & Farrington Co., stationery and books	4.73	
	<hr/>	\$6.85

REPAIRS AND IMPROVEMENTS.

Adams Brothers, lime.....	\$1.80	
F. C. Dow Co., rubber boots.....	2.18	
C. H. G. Foss, keys.....	.60	
G. B. Forsaith, castings, labor on fence.....	40.62	
Hampden Corundrum Wheel Co., 1 sharpener..	2.10	
Head & Dowst Co., lumber.....	33.91	
A. J. Knight, lumber and labor.....	4.95	
T. A. Lane Co., pipe.....	25.50	
Pike & Heald Co., material and labor, repairs	63.22	
Robie Consolidated Concrete Co., concrete.....	56.00	
Tibbetts & Newell, painting.....	266.82	
W. H. Tibbetts, labor on fence.....	14.65	
J. R. Turcotte, repairing picks.....	.50	
John B. Varick Co., hardware and tools.....	131.68	
R. M. West, ladders.....	5.00	
	<hr/>	\$649.53

SUNDRIES.

S. P. Cannon, services as clerk of trustees.....	\$10.00	
C. H. Wood, lettering signs.....	12.50	
	<hr/>	\$22.50
Total expenditures		<hr/> <hr/> \$3,075.37

Amoskeag Cemetery.

Appropriation	\$200.00	
Transferred from unappropriated money account	2.65	
		<u>\$202.65</u>

EXPENDITURES.

A. S. Chadbourn, trees.....	\$12.50	
George Harwood, labor	155.95	
Manchester Hardware Co., paint, etc.....	11.05	
Manchester Water-Works, use of water.....	12.00	
J. H. Wilson, paint.....	11.15	
		<u></u>
Total expenditures		<u>\$202.65</u>

Merrill Yard.

Appropriation	\$50.00	
		<u></u>

EXPENDITURES.

Frank A. Emerson, labor.....	\$3.75	
Mark Harvey, labor.....	2.00	
		<u></u>
Total expenditures		\$5.75
Transferred to unappropriated money account.....		44.25
		<u>\$50.00</u>

Paupers Off Farm.

Appropriation	\$9,000.00	
		<u></u>

EXPENDITURES.**GROCERIES AND MEATS.**

H. H. Alton	\$2.00
Barlow & Nye.....	8.00
J. B. Belanger	30.00
A. N. Clapp	22.22
A. H. Cate	27.00
C. H. Clark	7.00
A. M. Eastman	10.00
S. L. Flanders	7.00
Carl A. Friborg	8.00
H. Fradd & Co.....	42.50
T. F. Fifield	63.00

Griffin Brothers	\$878.21
A. L. Gadbois	7.00
J. J. Grenier	11.00
Gagne Brothers	10.00
B. F. & S. L. Greer.....	96.00
B. L. Hartshorn	26.00
John F. Healy	152.00
Joseph Huard	113.00
O. D. Knox & Co.....	129.50
A. Lambert & Co.....	85.47
P. D. Lynch	173.90
Thomas H. Mahoney	20.00
E. Marchand	138.00
McQuade's Market	216.00
Ulric Messier	165.50
A. W. Morse	62.00
E. F. Murray	3.00
Lamoureaux Brothers	70.00
J. N. Lacourse & Co.....	11.00
Noyes & Prince	78.00
O. H. Nourry & Co.....	80.00
F. X. Parent	72.00
E. W. Perkins	54.00
D. M. Poore & Son.....	37.12
Parnell Brothers	8.00
Edmond Pinard	10.00
Eugene Quirin	93.00
Joseph Quirin	25.00
W. M. Robinson	140.00
Swinston & Robinson	42.00
H. A. Tirrell	52.00
Trahan & Co.....	101.00
J. O. Turcotte	24.00
Calixte Vigneault	179.00
M. Verrette, Jr.....	209.80

 \$3,799.22

FUEL.

S. A. Blood	\$9.25
L. B. Bodwell & Co.....	29.25
Peter Beauchamp	3.00
Charles Boisclair & Co.....	9.25
Joseph Breault & Son.....	24.00
Boisclair & Raiche.....	72.25
Carou & Son	9.50
F. X. Chenette	29.10
J. H. DeCourcy Co.....	18.00
W. E. Dunbar & Son.....	28.00

Joseph Dunn	\$6.00	
G. W. Flint	3.00	
Flint, Haskell & Flint.....	2.00	
Philius Graveline	21.75	
B. F. & S. L. Greer.....	15.50	
Gilbert Gonyeau	2.00	
Alphonse Laberge	6.40	
A. D. Maxwell estate	81.12	
Manchester Coal & Ice Co.....	16.50	
Moore & Preston	35.88	
D. M. Poore	21.76	
E. W. Poore	6.00	
J. P. Russell & Co.....	171.30	
Mrs. August Schink.....	15.13	
E. V. Turcotte	22.25	
J. F. Wyman	8.25	
A. C. Wallace estate.....	10.00	
		<hr/>
		\$676.44

BOARD AND CARE AND RENT.

C. M. Bennett	\$48.00	
J. F. Clough	18.12	
County of Hillsborough	751.39	
Mrs. Martha McFarland	16.00	
Thomas Fitzgerald	10.00	
Clara E. French	34.70	
W. H. Gilmore.....	104.00	
Mrs. Matilda Hood.....	52.00	
Florence Hardy	72.00	
Thomas Kelley	70.00	
Mary A. Riley	78.00	
State Industrial School.....	1,249.72	
Ellen Stevens	6.00	
Mrs. August Schink.....	95.38	
Sacred Heart Hospital.....	25.00	
St. Patrick's Orphans' Home.....	155.00	
Women's Aid Home.....	72.00	
		<hr/>
		\$2,857.31

BOOTS, SHOES, CLOTHING.

A. T. Beaumier.....	\$5.25	
Burke Brothers	4.00	
John Cayzer	1.75	
Lane & Duzois.....	18.00	
M. A. McDonough	2.00	
Joseph St. Yves	5.00	
P. F. Toole	20.25	
		<hr/>
		\$56.25

MEDICINE, FUNERAL EXPENSES.

Z. F. Campbell, medicine.....	\$3.00	
T. F. Collins, burial outfit.....	12.00	
F. X. Chenette, burial outfit.....	10.00	
A. L. Gadbois & Co., burial outfit.....	8.00	
John B. Hall, medicine.....	8.10	
Kean & Sheehan, burial outfit.....	25.00	
F. H. Thurston, medicine.....	341.23	
E. V. Turcotte, burial outfits.....	60.00	
F. L. Way, medicine.....	3.15	
F. L. Wallace, burial outfit.....	25.00	
	<hr/>	\$495.48

SUNDRIES.

Boston & Maine Railroad, tickets.....	\$13.36	
John B. Clarke Co., printing blanks, postals, etc.	19.00	
W. P. Goodman, stationery and directories....	31.35	
William Glover, conveying Thomas Winn to asylum	1.83	
M. J. Healy, conveying J. Farley to asylum..	3.75	
B. F. & R. W. Welch, use of team.....	2.50	
	<hr/>	\$71.79

Total expenditures	\$7,956.49
Transferred to unappropriated money account.....	1,043.51
	<hr/>
	<u>\$9,000.00</u>

City Farm.

Appropriation	\$8,000.00	
Overdraft, Miville & Deschenes.....	3.85	
Transferred from unappropriated money account	298.89	
	<hr/>	\$8,302.74

EXPENDITURES.

E. G. Libby, superintendent.....	\$500.00	
Mrs. Annie Libby, matron	300.00	
	<hr/>	\$800.00

HOUSE AND FARM LABOR.

January	\$126.66
February	175.19
March	131.86
April	126.96
May	183.72

June	\$162.64	
July	162.63	
August	175.22	
September	120.00	
October	136.86	
November	164.56	
December	131.86	
	<hr/>	\$1,798.16
Margaret Fraizier	\$9.43	
Lizzie Flanders	7.50	
Clara S. Heath.....	3.00	
John Marshall	20.53	
Charles H. Nixon.....	5.19	
Joseph Shaw	8.07	
Fannie Tenney	1.07	
	<hr/>	\$54.79

FUEL.

L. B. Bodwell & Co., 16½ tons coal.....	\$94.10	
L. B. Bodwell & Co., 59,740 lbs. coal.....	152.56	
A. W. Prescott, wood.....	93.00	
	<hr/>	\$339.66

CLOTHING, DRY GOODS, ETC.

Allen & Kimball, clothing.....	\$8.44	
Clark & Estey, socks.....	4.35	
Charles Coe & Co., boots.....	54.84	
G. W. Dodge Shoe Co., shoes and rubbers....	52.40	
W. P. Farmer, boots and shoes.....	8.25	
A. & W. S. Heath, boots and shoes.....	40.85	
James W. Hill Co., gingham, cotton, hose, etc.	119.30	
F. W. Leeman, shirting and linings.....	3.70	
William Marcotte & Co., caps and overalls....	12.55	
Miville & Deschenes, dry goods.....	39.72	
H. M. Moody, clothing.....	41.25	
D. F. Shea, boots and shoes.....	7.00	
George Porter, shoes	1.00	
E. C. Wescott, merchandise.....	11.83	
	<hr/>	\$405.48

MEATS AND PROVISIONS.

Bartlett & Thompson.....	\$4.73	
Barlow & Nye.....	381.60	
L. Belli	10.22	
F. L. Bixby.....	1.65	
W. G. Connor.....	2.50	
C. H. Clark.....	26.69	
Daniels-Cornell Co.	336.38	

C. H. Durgin.....	\$2.50
Dodge & Laing.....	16.28
Granite State Grocery Co.....	2.40
D. Johnson	7.90
W. D. Ladd & Co.....	10.32
E. G. Libbey.....	2.80
Manchester Provision Co.....	196.89
Horace Marshall	49.24
Manchester Beef Co.....	27.12
Thomas H. Mahoney.....	15.88
E. S. Newton.....	99.17
Nelson, Morris & Co.....	26.03
Parnell Brothers	159.21
Henry W. Parker.....	386.80
Eugene Quirin	39.65
Fred Ray	14.82
Swift Provision Co.....	13.75
R. G. Sullivan	46.04
John E. Towle & Co.....	28.68
J. O. Turcotte	13.20
Henry Weber	10.00
G. F. Whittier	13.29
J. H. Wiggin & Co.....	14.79
John M. Woodbridge.....	1.14

 \$1,961.67

FURNITURE AND KITCHEN UTENSILS.

Clark M. Bailey, chimneys, brushes, etc.....	\$17.00
G. F. Boshier, furniture and crockery.....	37.56
James Briggs & Son, dish washer, etc.....	7.85
C. A. Hoitt & Co., carpets, shades, crockery, etc.	76.89
R. K. Horne, pails, glass ware.....	11.18
Charles Noll, boxes.....	2.50

 \$152.98

MEDICINE, VETERINARY SERVICES.

A. F. Abbott, V. S., attendance and medicine..	\$25.00
A. L. Dodge, V. S., attendance and medicine....	14.85
F. H. Eames, ointment, etc.....	1.45
John B. Hall, medicine.....	.25
Robert Heath, "Bug Death".....	20.00
F. K. Hubbard, X-ray medicine.....	6.00
Gillis Stark, M. D., visits.....	7.50
A. D. Smith, oil cedar.....	4.00
A. G. and Zatae L. Straw, medicine.....	7.05
F. H. Thurston, medicine.....	12.55

 \$98.65

BLACKSMITHING, HARNESESSES, ETC.

J. A. Ballou, harness repairs and supplies.....	\$28.05	
L. P. Tremblay, horseshoeing.....	20.55	
J. O. Tremblay Horseshoeing Co., horseshoeing	16.35	
N. J. Whalen, harness repairs and supplies....	35.60	
	<hr/>	\$100.55

CARRIAGE REPAIRS.

John T. Beach.....	\$1.60	
Donald McDonald	102.70	
Kimball Carriage Co.....	21.19	
Manchester Locomotive Works.....	5.58	
J. B. McCrillis & Son.....	8.39	
James Murphy	24.00	
Sanborn Carriage Co.....	29.60	
	<hr/>	\$193.06

HAY, GRAIN, AND OTHER FEED.

Adams Brothers	\$100.22	
Brown & Titus.....	429.42	
Gage & McDougall.....	86.00	
C. R. Merrill.....	220.85	
Partridge Brothers	117.50	
	<hr/>	\$953.99

HARDWARE, FERTILIZERS, ETC.

Adams Brothers	\$55.20	
J. J. H. Gregory & Son.....	15.83	
Peter Henderson & Co.....	20.80	
Manchester Hardware Co.....	152.97	
John B. Varick Co.....	275.47	
	<hr/>	\$520.27

PREMIUM ON INSURANCE POLICIES.

W. G. Berry.....	\$35.00	
Robert R. Chase.....	17.50	
John Dowst	17.50	
Everett & Scott	26.25	
John A. Sheehan.....	96.25	
	<hr/>	\$192.50

ADVERTISING, STATIONERY, TELEPHONE.

John B. Clarke Co., advertising.....	\$2.85	
W. P. Goodman, stationery.....	1.65	
New England Telephone & Telegraph Co., use of telephones	44.88	
Union Publishing Co., advertising.....	2.88	
	<hr/>	\$52.26

REPAIRS AND IMPROVEMENTS.

A. A. Amlaw, repairing pipes.....	\$5.98
J. J. Abbott, paint.....	1.45
E. W. Bunton, repairing chairs.....	3.75
James Briggs & Son, plumbing.....	81.55
A. S. Chadbourn, trees.....	21.00
W. M. Darrah & Co., roofing material and labor	8.10
W. E. Dealand, repairing clock.....	1.50
J. Hodge, lumber.....	13.44
J. B. Huntley, pipe and labor.....	7.19
Head & Dowst Co., lumber.....	73.73
Kimball & Hobbs, shoemakers' supplies.....	3.71
T. A. Lane Co., cutting and fitting pipes.....	1.77
Pike & Heald Co., repairs.....	12.07

 \$235.24

SUNDRIES.

American Express Co., express.....	\$1.06
G. W. Bailey, use of hack.....	5.00
George Butterfield estate, shovel, chain, plow	5.80
Brown & Titus, grinding	3.80
L. B. Bodwell & Co., cutting ice.....	10.00
Boston & Maine Railroad, freight.....	1.87
C. W. Clement, extracting teeth.....	1.50
C. A. Eastman, pasturing cattle.....	28.00
Clinton French, 1 cow.....	43.00
C. S. Fifield, use of teams.....	15.00
E. A. Hannum, cockroach powder.....	7.50
William Hayes, polish	2.50
A. K. Hobbs, cement, needles, rubber bands....	4.28
Manchester Slaughtering & Rendering Co., 8 hogs dressed	4.00
H. W. Moore, 1 cow.....	45.00
New England Homestead, 1 year's subscription to paper	1.00
F. M. Pettengill, 1 bull.....	25.00
Sampson, Murdock & Co., 1 directory.....	2.00
D. B. Varney, sawdust.....	.50
Manchester Water-Works, use of water.....	179.55
Manchester Oil Co., oil.....	55.00
H. Pariseau, 29 boxes.....	.87
John E. Towle & Co., 1 barrel.....	1.25

 \$443.48

Total expenditures

 \$8,302.74

Indigent Soldiers.

Appropriation	<u>\$150.00</u>
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EXPENDITURES.**GROCERIES.**

B. L. Hartshorn.....	\$6.00	
O. D. Knox & Co.....	12.00	
D. M. Poore & Son.....	48.00	
	<u> </u>	\$66.00

FUEL.

Moore & Preston.....	\$6.50	
A. D. Maxwell estate	31.75	
D. M. Poore.....	6.25	
	<u> </u>	\$44.50
Total expenditures		\$110.50
Transferred to unappropriated money account.....		39.50
		<u>\$150.00</u>

Board of Examiners of Plumbers.

Transferred from unappropriated money account.....	<u>\$100.00</u>
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EXPENDITURES.

John B. Clarke Co., printing.....	\$6.59	
Nate Kellogg' Co., printing.....	41.50	
Samuel J. Lord, expenses of examiners to Con-		
cord and return	2.94	
Pike & Heald Co., supplies.....	29.91	
Carl O. Seaman, material and tools.....	2.35	
Temple & Farrington Co., books and paper....	16.00	
G. W. Wales, express.....	.71	
	<u> </u>	\$100.00

File and Index System.

Balance from last year unexpended.....	\$237.25	
Appropriation	600.00	
	<u> </u>	\$837.25

EXPENDITURES.

LABOR.

Florence A. Robinson.....	\$384.00
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SUPPLIES.

Carter, Rice & Co., envelopes.....	\$11.50
E. R. Coburn Co., cards and index.....	50.00
Tablet & Ticket Co., supplies.....	14.24
The Elliott & Hatch Book Typewriter Co., 1 typewriter	175.00
	<u>\$250.74</u>

SUNDRIES.

Stark & Blanchet, insurance premium.....	\$10.00
Total expenditures	\$644.74
Transferred to new account.....	192.51
	<u>\$837.25</u>

Emergency Ward, Elliot Hospital.

Appropriation	\$300.00
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EXPENDITURES.

Emergency Ward	\$75.00
Total expenditures	\$75.00
Transferred to appropriation for band concerts.....	100.00
Transferred to unappropriated money account.....	125.00
	<u>\$300.00</u>

Free Beds, Elliot Hospital.

Appropriation	\$300.00
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EXPENDITURES.

Amount appropriated	\$300.00
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Notre Dame de Lourdes]Hospital.

Appropriation	\$300.00
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EXPENDITURES.

Amount appropriated	\$300.00
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Sacred Heart Hospital.

Appropriation	\$300.00
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EXPENDITURES.

Amount appropriated	\$300.00
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Women's Aid Home.

Appropriation	\$300.00
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EXPENDITURES.

Amount appropriated	\$300.00
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Decoration of Soldiers' Graves.

Appropriation	\$400.00
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EXPENDITURES.

Louis Bell Post No. 3, G. A. R.....	\$368.40
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Total expenditures	\$368.40
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Transferred to unappropriated money account.....	31.60
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	\$400.00
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Militia.

Appropriation	\$900.00
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EXPENDITURES.

Company C, First Regiment, N. H. N. G.....	\$100.00
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Company F, First Regiment, N. H. N. G.....	100.00
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Company H, First Regiment, N. H. N. G.....	100.00
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Company L, First Regiment, N. H. N. G.....	100.00
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First Regiment Band, N. H. N. G.....	100.00
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Joseph Freschl Post No. 94, G. A. R.....	100.00
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Louis Bell Post No. 3, G. A. R.....	100.00
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Manchester Cadets	100.00
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Manchester War Veterans.....	100.00
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	\$900.00
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Band Concerts.

Appropriation	\$300.00	
Transferred from Emergency Ward, Elliot Hospital account	100.00	
	<u> </u>	\$400.00

EXPENDITURES.

City Band	\$150.00	
First Regiment Band	150.00	
Pay-roll, commons, June.....	12.38	
Pay-roll, commons, July.....	34.25	
Pay-roll, commons, August.....	30.38	
	<u> </u>	
Total expenditures		\$377.01
Transferred to unappropriated money account.....		22.99
		<u> </u>
		<u>\$400.00</u>

Abatement of Taxes.

Appropriation	<u>\$2,000.00</u>
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EXPENDITURES.

Sundry persons on taxes abated.....	\$1,902.40	
	<u> </u>	
Total expenditures		\$1,902.40
Transferred to unappropriated money account.....		97.60
		<u> </u>
		<u>\$2,000.00</u>

Purchase of Land sold for Taxes.

Appropriation	\$5,200.00	
Transferred from unappropriated money account	976.95	
	<u> </u>	\$6,176.95

EXPENDITURES.

George E. Morrill, taxes sold and purchased by city.....	<u>\$6,176.95</u>
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State Tax.

Appropriation	\$57,991.00	
Transferred from unappropriated money account25	
	<u> </u>	\$57,991.25

EXPENDITURES.

State of New Hampshire.....	\$57,991.25
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County Tax.

Appropriation	\$75,453.85
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EXPENDITURES.

Hillsborough county	\$75,453.85
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**Resolution Raising Money and Making Appropriations
for the Year One Thousand Eight Hundred and
Ninety-nine.**

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That the sum of six hundred thirteen thousand dollars (\$613,000) be raised for the use of the city for the year 1899, by tax on the polls and estates liable to be taxed thereon, which sum, with such unappropriated money as may now be in the city treasury, or may hereafter come into it, shall be appropriated as follows:

CENTRAL DEPARTMENT.

Interest	\$45,500.00
City hall expenses	2,500.00
Incidental expenses	5,500.00
Mayor's incidentals	300.00
Sinking fund	22,000.00
Printing and stationery	2,000.00
Land sold for taxes.....	5,200.00
City officers' salaries	22,000.00
Payment funded debt.....	45,000.00
File and Index System, city clerk's office.....	600.00

AUDITOR'S DEPARTMENT.

Salaries and expenses	\$2,000.00
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ENGINEER'S DEPARTMENT.

Salaries and expenses	\$5,400.00
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DEPARTMENT OF TAXES.

Abatement of taxes	\$2,000.00
County tax	75,453.85
State tax	57,991.00

STREET AND SEWER DEPARTMENT.

Board of street and park commissioners, salaries and expenses	\$3,500.00
Repairs of highways	20,000.00
Watering streets	4,000.00
Macadamizing streets	10,000.00
Building new highways.....	4,500.00
Paving streets	5,000.00
Grading for concrete	5,000.00
Scavenger teams	15,000.00
Repairs of bridges	2,500.00
Repairs of sewers and drains.....	5,000.00
Removal of snow and ice.....	10,000.00
Street sweeping	2,500.00
City teams	6,500.00
New sewers	20,000.00
To be hereafter appropriated.....	21,000.00

SCHOOL DEPARTMENT.

Repairs of schoolhouses.....	\$3,500.00
Fuel	8,800.00
Furniture and supplies.....	1,300.00
Books and stationery	100.00
Printing and advertising.....	300.00
Contingent expenses	1,000.00
Care of rooms	6,500.00
Evening schools	1,200.00
Teachers' salaries	81,000.00
Evening schools, mechanical drawing.....	400.00
Free text-books	5,000.00
Furnishing two rooms at High school.....	350.00
Manual training	600.00
New boiler at Training school.....	400.00
New boiler at Main-street school.....	400.00

FIRE DEPARTMENT.

Fire department	\$66,000.00
Fire-alarm telegraph	1,000.00
Hydrant service	18,100.00

PUBLIC BUILDINGS DEPARTMENT.

Repairs on public buildings	\$3,500.00
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PUBLIC PLACES DEPARTMENT.

Care of commons	\$4,000.00
Care of Stark park.....	500.00

Care of Derryfield park.....	\$1,000.00
Care of Pine Grove cemetery.....	8,500.00
Care of Valley cemetery.....	3,000.00
Care of Amoskeag cemetery.....	200.00
Care of Merrill yard.....	50.00
Playground, South End	100.00

CITY LIBRARY.

Salaries and expenses	\$5,000.00
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POLICE DEPARTMENT.

Salaries and expenses of commission and force.....	\$10,000.00
Expenses of court.....	2,900.00
Care and maintenance of station.....	2,800.00

PATRIOTIC, CHARITABLE, AND PHILANTHROPIC.

Support of paupers off the city farm.....	\$9,000.00
Maintenance of city farm.....	8,000.00
Support of indigent soldiers.....	150.00
Bed for city patients, Women's Aid Home.....	300.00
Bed for city patients, Elliot Hospital.....	300.00
Bed for city patients, Notre Dame de Lourdes Hospital	300.00
Bed for city patients, Emergency Ward, Elliot Hospital	300.00
Decoration soldiers' graves.....	400.00
Bed for city patients, Sacred Heart Hospital.....	300.00
Company C, First Regiment, N. H. N. G.....	100.00
Company F, First Regiment, N. H. N. G.....	100.00
Company H, First Regiment, N. H. N. G.....	100.00
Company L, First Regiment, N. H. N. G.....	100.00
Band, First Regiment, N. H. N. G.....	100.00
Joseph Freschl Post, G. A. R.....	100.00
Louis Bell Post, G. A. R.....	100.00
Manchester War Veterans.....	100.00
Manchester Cadets	100.00
Band concerts	300.00

HEALTH DEPARTMENT.

Salaries and expenses	\$4,766.00
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LIGHTING STREETS.

Lighting streets	\$55,575.00
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Passed Common Council April 5, 1899.

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.

Resident and non-resident.	Polls.		Dogs.*		Real estate, value.	Stock in trade.	Money on hand, at interest, or on deposit, value.	Horses, asses, and mules, over 18 months old.		Carriages, value.	Cows, oxen, and other neat stock over 18 months old.	
	No.	Value.	Male.	Female.				No.	Value.		No.	Value.
1890....	9,723	\$972,300	710	51	\$13,898,120.00	\$2,351,102.00	\$378,226.00	1,797	\$173,186.00	\$50,400.00	717	\$15,470.00
1891...	10,307	1,036,700	713	49	14,124,570.00	2,322,752.00	382,626.00	2,151	185,866.00	53,496.00	671	12,944.00
1892..	10,673	1,067,300	700	43	14,910,978.00	2,355,780.00	375,694.00	2,255	200,182.00	53,590.00	616	12,580.00
1893....	11,835	1,183,500	.....	.....	16,003,370.00	2,554,818.00	425,334.00	2,777	210,032.00	59,516.00	551	11,656.00
1894....	12,103	1,210,300	.....	.....	16,956,070.00	2,421,954.00	519,500.00	2,608	200,376.00	57,526.00	452	9,618.00
1895....	12,244	1,224,400	.....	.....	17,688,224.00	2,435,546.00	149,592.00	2,639	196,264.00	59,128.00	431	9,710.00
1896...	12,583	1,258,300	.....	.....	18,358,266.00	2,421,862.00	147,148.00	2,644	184,790.00	57,440.00	410	9,308.00.
1897....	12,921	1,292,100	.....	.....	18,763,182.00	2,772,460.00	113,288.00	2,617	174,746.00	57,810.00	507	10,920.00
1898....	12,808	1,280,800	.....	.....	19,175,434.00	2,782,386.00	107,160.00	2,640	171,242.00	56,698.00	551	12,400.00
1899....	13,137	1,313,700	.....	.....	19,301,762.00	3,939,419.00	176,388.00	2,648	169,977.00	58,129.00	619	14,570.00

* Dog tax repealed. See chapter 6, January laws of 1893.

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.—Continued.

Hogs.	Sheep over 6 months old.		Fowls.		Stock in banks and other corporations, value.	Stock in public funds and bonds, value.	Factories and their machinery, value.	Total value.	Rate of tax per hundred.	Tax levied.	Total, including dog tax.
	No.	Value.	No.	Value.							
104	\$1,040.00	17	\$46.00	.....	\$280,500.00	\$19,900.00	\$6,068,450.00	\$24,207,740.00	\$1.91	\$2,462,057.17	\$462,769.00
115	932.00	12	30.00	.....	290,100.00	19,900.00	6,432,576.00	24,872,492.00	1.78	442,730.76	443,541.76
85	572.00	14	42.00	.....	301,700.00	4,400.00	6,049,000.00	25,932,044.00	1.95	505,679.17	506,465.17
12	120.00	13	38.00	.....	317,000.00	5,600.00	6,697,906.00	27,439,742.00	1.85	507,640.68	507,640.68
73	820.00	40	80.00	.....	230,000.00	22,100.00	6,763,050.00	28,391,710.00	1.78	505,372.44	505,372.44
52	524.00	29	62.00	.....	263,166.00	1,400.00	6,774,950.00	28,61,122.00	1.74	502,183.02	502,183.02
26	260.00	43	90.00	.....	242,104.00	2,000.00	6,755,100.00	29,443,668.00	1.86	547,651.50	547,651.50
45	470.00	33	56.00	.....	233,264.00	.....	7,068,650.00	30,486,946.00	2.08	634,127.80	634,127.80
69	490.00	43	64.00	.....	250,934.00	.....	7,090,300.00	30,988,488.00	1.95	604,280.67	.....
45	418.00	11	24.00	.....	222,460.00	.....	6,294,181.00	31,491,784.00	1.95	614,096.93	.....

* Tax on the Manchester Building Association, \$34,500 at 1 per cent. See Laws of 1889, chapter 12.

Assessors' Oath.

We, the Assessors of the city of Manchester, do solemnly swear that in making the invoice for the purpose of assessing the foregoing taxes, we appraise all taxable property at its full value, and as we would appraise the same in payment of a just debt due from a solvent debtor.
So help us God.

Valuation and Taxes.

The amount of taxes assessed on the polls and on the real and personal estate, within the city of Manchester, N. H., for the year 1899, was as follows:

	Valuation.	Rate.	Tax.
Real estate	\$25,595,943	\$19.50	\$499,128.04
Personal property	4,582,141	19.50	89,351.74
	<hr/>		<hr/>
	\$30,178,084		\$588,479.78
Number of polls, 13,137.....	1,313,700	19.50	25,617.15
	<hr/>		<hr/>
Totals	\$31,491,784		\$614,096.93

The share distributed to Manchester of the amount of tax assessed, as per returns made by the corporations to state treasurer:

On railroads	\$29,832.61
On savings banks	48,880.91
On insurance companies	3,137.25
On literary fund	3,352.74
	<hr/>
Grand tax total	\$699,300.44

For further information in relation to taxes collected by the state, see State Treasurer's report.

TABLE OF TAXES DUE AND UNCOLLECTED.

YEAR.	Due January 1, 1900, assessed in 1899.	Discounts and abatements, 1899.	Collected in 1899.	Due December 31, 1899.
Taxes of 1885.....	\$1,205.71	.....	.....	\$1,205.71
Taxes of 1886.....	1,264.85	.....	.....	1,264.85
Taxes of 1887.....	1,163.94	.....	.....	1,163.94
Taxes of 1888.....	1,580.13	.....	.....	1,580.13
Taxes of 1889.....	1,395.13	.....	.....	1,395.13
Taxes of 1890.....	1,687.08	.....	.....	1,687.08
Taxes of 1891.....	1,966.63	.....	.....	1,966.63
Taxes of 1892.....	2,587.00	.....	\$4.88	2 582.12
Taxes of 1893.....	4,095.13	.....	.....	4,095.13
Taxes of 1894.....	3,521.17	.....	5.34	3,515.83
Taxes of 1895.....	5,021.80	.....	9.92	5,011.88
Taxes of 1896.....	5,032.47	.....	27.45	5,005.02
Taxes of 1897.....	5,800.20	.....	453.79	5,346.41
Taxes of 1898.....	{ 810.66 } { 57,863.24 }	\$437.59	52,294.66	5,941.65
Taxes of 1899.....	614,196.93	1,464.81	552,759.54	59,972 58
Totals.....	\$709,192.07	\$1,902.39	\$605,555.58	\$101,731.09

TAX VALUATIONS, ETC., FROM 1890 TO 1899, INCLUSIVE.

YEAR.	Valuation.	Taxes.	No. polls.	Poll tax.	Valuation of poll.
1890.....	24,207,740	\$462,869.17	9,723	\$1.91	\$100
1891.....	24,872,492	443,541.76	10,367	1.78	100
1892.....	25,932,044	506,465.17	10,673	1.95	100
1893.....	27,439,742	507,640.68	11,835	1.85	100
1894.....	28,391,710	505,372.44	12,103	1.78	100
1895.....	28,861,122	502,183.02	12,244	1.74	100
1896.....	29,443,668	517,651.50	12,583	1.86	100
1897.....	30,486,946	634,127.80	12,921	2.08	100
1898.....	30,988,488	604,280.57	12,808	1.95	100
1899.....	31,491,784	614,096.93	13,137	1.95	100

For years prior to 1890, see reports of 1890 and 1891.

Settlement of Account of George E. Morrill, Tax Collector for City of Manchester, N. H., June 1, 1899.

	Amount out- standing June 1, 1898.	Collected.	Balance out- standing June 1, 1899.
Tax list, 1885	\$1,205.71		\$1,205.71
1886	1,264.85		1,264.85
1887	1,163.94		1,163.94
1888	1,580.13		1,580.13
1889	1,395.13		1,395.13
1890	1,687.08		1,687.08
1891	1,966.63		1,966.63
1892	2,587.00	\$4.88	2,582.12
1893	4,095.13		4,095.13
1894	3,521.17	5.34	3,515.83
1895	5,021.80	9.92	5,011.88
1896	5,032.47	27.45	5,005.02
1897	5,800.20	453.79	5,346.41

Amount collected	\$501.38
Credit by cash, as per treasurer's receipt No. 168	501.38
Interest collected	\$1,381.85
Credit by cash, as per treasurer's receipt No. 167	1,381.85

1898.

DR.

June 1. Balance due on settlement of 1893 list.....		\$4,004.48
To warrant resident list.....	\$602,750.71	
warrant non-resident list.....	1,529.86	
voluntary list	810.66	
		<u>\$605,091.23</u>

1898, 1899.

CR.

By cash paid treasurer, per vouchers Nos. 105, 114, 125, 143, 165, 169, 176, 198, in year 1898; and receipts Nos. 31, 115, 117, 169 in year 1899	\$597,670.81	
By abatements, vouchers Nos. 190 in 1898, and 75 and 116 in 1899.....	1,478.77	
By unpaid taxes, June 1, 1899.....	5,941.65	
		<u>\$605,091.23</u>

CITY OF MANCHESTER TO GEORGE E. MORRILL.

DR.

To salary for year ending June 1, 1899.....	\$1,650.00	
commission on old taxes.....	27.42	
		<u>\$1,677.42</u>

Cr.

By cash paid by treasurer, on account of salary	\$800.00	
balance paid by treasurer, as per bill.....	877.42	
		<u>\$1,677.42</u>

MANCHESTER, N. H., July 1, 1899.

I hereby certify that I have examined the account of George E. Morrill, tax collector of said Manchester, and find the same correct, as above stated.

JAMES E. DODGE,
City Auditor.

Some Laws and Decisions Relating to Exemptions from Taxation.

CONSTITUTION OF NEW HAMPSHIRE, ARTICLE 82, PAGE 38, PUBLIC STATUTES.

ENCOURAGEMENT OF LITERATURE, ETC.

ART. 82. "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 legislators and magistrates, in all future periods of this government, to cherish the interest 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; *provided, nevertheless*, that no money raised by taxation shall ever be granted or applied for the use of schools or institutions of any religious sect or denomination."

PUBLIC STATUTES, CHAPTER 55.

SECT. 2. "Real estate, whether improved or unimproved, and whether owned by residents or others, is liable to be taxed, except houses of public worship, twenty-five hundred dollars of the value of parsonages owned by religious societies and occupied by their pastors, schoolhouses, seminaries of learning, real estate of the United States, state, or town used for public purposes, and almshouses on county farms."

SECT. 11. "Towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed

to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town."

OPINION OF THE SUPREME COURT.

58 N. H. Rep., page 623. "The exemption in each case is limited to ten years. A perpetual alienation of the whole power of taxation would be the destruction of government; and the dangerous tendency of legislation suspending any part of that power, for any period, is manifest. *P. Bank v. Billings*, 4 Pet. 514,561. So long as the existing laws remain unrepealed, and the constitutional construction heretofore adopted remains unchanged, contracts hereafter made under these laws and that construction will be valid. If the legislature for any reason wish to prevent the making of any more such contracts, their object can be accomplished by a repeal of the laws authorizing them."

Hospitals, etc., are exempt from taxation in their respective charters as "being of the nature of a public charity," as follows:

Gale Home for Aged and Destitute Women, N. H. Laws of 1889, chapter 199.

Elliot Hospital, N. H. Laws of 1881, chapter 178.

Manchester Women's Aid and Relief Society, organized in January, 1875, N. H. Laws, 1891, chapter 283.

Orphanage and Home for Old Ladies (Catholic) on Hanover street, N. H. Laws, 1883, chapter 56.

Schedule of Property used for Religious, Charitable, and Educational Purposes, and Exempt from Taxation by Law, not Including that Owned by the City of Manchester.

Convent, Sisters Jesus Mary, French Catholic; East Spruce street, near Beech:

Building	\$10,000.00	
13,000 square feet of land.....	2,600.00	
		\$12,600.00

Convent, Sisters of Mercy, Catholic; 415 Union street, corner Laurel:

Building	\$30,000.00	
12,600 square feet of land.....	6,300.00	
		\$36,300.00

Mount St. Mary's Academy, Catholic; from convent lot east to Beech street:

Building	\$25,000.00	
31,500 square feet of land.....	9,450.00	
		\$34,450.00

Lot south side of Laurel street, corner Union street, Catholic; McDonald school:		
Building	\$35,000.00	
10,800 square feet of land.....	5,000.00	
		\$40,000.00
Hospital of the Sacred Heart and Old Ladies' Home, Catholic; Amherst and Hanover streets:		
Building	\$14,000.00	
40,500 square feet of land.....	30,375.00	
		\$44,375.00
St. Patrick's Orphan Asylums, Catholic; 184 Hanover street:		
Building	\$47,000.00	
40,500 square feet of land.....	40,500.00	
		\$87,500.00
St. Joseph's High School, Catholic; Lowell street, corner of Birch:		
Building	\$12,000.00	
8,000 square feet of land.....	8,000.00	
		\$20,000.00
Union-street school, Catholic; corner Union and Laurel streets:		
Building	\$4,000.00	
5,000 square feet of land.....	2,500.00	
		\$6,500.00
St. Agnes' school, Catholic; corner Cedar and Pine streets:		
Building	\$12,000.00	
20,000 square feet of land.....	3,200.00	
		\$15,200.00
St. Joseph's school for girls, Catholic; corner Pine and Lowell streets:		
Building	\$10,000.00	
Land included in cathedral lot.		
		\$10,000.00
Convent of Holy Angels, French Catholic; Beauport street, corner Wayne, West Manchester:		
Building	\$15,000.00	
22,500 square feet of land.....	4,500.00	
		\$19,500.00
St. George's school, French Catholic; corner Pine and Orange streets:		
Building	\$30,000.00	
10,000 square feet of land.....	5,000.00	
		\$35,000.00
Home, Sisters of the Precious Blood; 555 Union street:		
Building	\$2,500.00	
6,750 square feet of land.....	2,025.00	
		\$4,525.00
Orphanage school, Beauport, Wayne, and Putnam streets; French Catholic:		
Building	\$25,000.00	
30,000 square feet of land.....	6,000.00	
		\$31,000.00

St. Augustine's academy, French Catholic; corner Beech and Spruce streets:		
Building	\$8,000.00	
15,000 square feet of land.....	4,500.00	
	<hr/>	\$12,500.00
St. Mary's parochial school, French Catholic; corner Wayne and Cartier streets:		
Building	\$12,000.00	
25,000 square feet of land.....	2,000.00	
	<hr/>	\$14,000.00
Residence priest St. Augustine's church, French Catholic; No. 383 Beech street:		
Building	\$6,000.00	
7,500 square feet of land.....	1,875.00	
	<hr/>	\$2,500.00
	\$7,875.00	
Orphan Children's school, parish St. Augustine; 251, 253 Lake avenue:		
Building	\$12,000.00	
10,000 square feet of land.....	5,000.00	
	<hr/>	\$17,000.00
Schoolhouse, north side of Cedar street:		
Building	\$8,750.00	
2,500 square feet of land.....	1,250.00	
	<hr/>	\$10,000.00
Residence priest St. Anne's church, Catholic; No. 231 Merimack street:		
Building	\$5,000.00	
8,820 square feet of land.....	2,646.00	
	<hr/>	\$2,500.00
	\$7,646.00	
Residence Catholic bishop; No. 145 Lowell street:		
Building	\$40,000.00	
24,000 square feet of land.....	12,000.00	
	<hr/>	\$2,500.00
	\$52,000.00	
Residence priest St. George's church, French Catholic; Orange street, corner Pine:		
Building	\$2,500.00	
10,000 square feet of land.....	4,000.00	
	<hr/>	\$2,500.00
	\$6,500.00	
Residence priest St. Mary's church, French Catholic; 376 Beauport street, West Manchester:		
Building	\$2,500.00	
5,000 square feet of land.....	1,000.00	
	<hr/>	\$2,500.00
	\$3,500.00	

St. Anne's church, Catholic; Union street, corner Merrimack:

Building	\$30,000.00	
10,180 square feet of land.....	5,090.00	
		<hr/>
		\$35,090.00

St. Augustine's church, French Catholic; Beech street, corner East Spruce:

Building	\$28,000.00	
13,000 square feet of land.....	3,250.00	
		<hr/>
		\$31,250.00

St. Joseph's cathedral and chapel, Catholic; Pine street, corner Lowell:

Building	\$70,000.00	
40,000 square feet of land.....	30,375.00	
		<hr/>
		\$100,375.00

St. Mary's church, French Catholic; Beauport street, corner Wayne, West Manchester:

Building	\$25,000.00	
70,000 square feet of land.....	14,000.00	
		<hr/>
		\$39,000.00

St. Raphael's church and school, German Catholic; Third street, corner Ferry, West Manchester:

Building	\$35,000.00	
8,000 square feet of land.....	3,400.00	
		<hr/>
		\$38,400.00

St. George's church, French Catholic; Pine street, corner Orange:

Building	\$75,000.00	
18,690 square feet of land.....	7,614.00	
		<hr/>
		\$82,614.00

St. Patrick's church and school, Catholic; Kelly street, Cartier street and Coolidge avenue:

School building	\$20,000.00	
56,281 square feet of land.....	4,502.00	
		<hr/>
		\$24,502.00

First Baptist church; Union street, corner Concord:

Building	\$28,000.00	
11,250 square feet of land.....	6,750.00	
		<hr/>
		\$34,750.00

First Freewill Baptist church; Merrimack street, corner Chestnut:

Building	\$12,400.00	
12,600 square feet of land.....	12,600.00	
		<hr/>
		\$25,000.00

Second Baptist church; Merrimack street, near Pine:

Building	\$9,000.00	
9,450 square feet of land.....	3,780.00	
		<hr/>
		\$12,780.00

People's Baptist church; Chestnut street, corner Concord:

Building	\$8,000.00	
3,200 square feet of land.....	2,000.00	
		<hr/>
		\$10,000.00

First Congregational church; Hanover street, corner Union:		
Building	\$30,000.00	
43,200 square feet of land.....	34,560.00	
		\$64,560.00
Second Congregational church; Market street, corner Franklin:		
Building	\$25,000.00	
19,000 square feet of land.....	19,000.00	
		\$44,000.00
Third Congregational church; South Main street, corner Milford, West Manchester:		
Building	\$8,000.00	
23,000 square feet of land.....	3,000.00	
		\$11,000.00
First M. E. church; Valley street, corner Jewett:		
Building	\$8,000.00	
11,400 square feet of land.....	1,000.00	
		\$9,000.00
St. Paul's M. E. church; Union street, corner Amherst:		
Building	\$25,000.00	
10,010 square feet of land.....	6,000.00	
		\$31,000.00
Trinity M. E. church; School street:		
Building	\$2,000.00	
12,176 square feet of land.....	3,000.00	
		\$5,000.00
St. James M. E. church; Pennacook street, corner Pine:		
Building	\$9,000.00	
11,000 square feet of land.....	2,200.00	
		\$11,200.00
Grace church, Episcopal; Lowell street, corner Pine:		
Building	\$20,000.00	
9,300 square feet of land.....	6,975.00	
		\$26,975.00
First Unitarian church; Concord street, corner Beech:		
Building	\$24,000.00	
13,500 square feet of land.....	6,000.00	
		\$30,000.00
First Universalist church; Lowell street, near Elm:		
Building	\$17,000.00	
10,000 square feet of land.....	15,000.00	
		\$32,000.00
Christian church, Protestant; Pine street, corner Merrimack:		
Building	\$6,000.00	
9,000 square feet of land.....	6,700.00	
		\$12,700.00

First Presbyterian church, German; Second street, corner
Bath, West Manchester:

Building	\$3,000.00	
10,000 square feet of land.....	2,500.00	
		<hr/>
		\$5,500.00

Swedish Lutheran church, Protestant; Sagamore, corner
Pine:

Building	\$7,500.00	
10,950 square feet of land.....	2,000.00	
		<hr/>
		\$9,500.00

Swedish Evangelical Mission; Pine street, corner Orange:

Building	\$6,500.00	
Land	4,100.00	
		<hr/>
		\$10,600.00

Swedish Baptist church; Arlington street, near Maple:

Building	\$5,000.00	
4,432 square feet of land.....	1,100.00	
		<hr/>
		\$6,100.00

Second Advent church; Amherst street, between Pine and
Union:

Building	\$5,100.00	
4,500 square feet of land.....	3,375.00	
		<hr/>
		\$8,475.00

City Mission chapel, Protestant; Merrimack street, corner
Beech:

Building	\$7,000.00	
12,600 square feet of land.....	6,000.00	
		<hr/>
		\$13,000.00

Westminster Presbyterian church; Brook street, corner
Hazel:

Building	\$15,000.00	
10,000 square feet of land.....	2,500.00	
		<hr/>
		\$17,500.00

South Manchester Union chapel, Protestant; Elm street,
south:

Building	\$2,500.00	
10,747 square feet of land.....	1,000.00	
		<hr/>
		\$3,500.00

Episcopal Mission church; North Main street, corner
School, West Manchester:

Building	\$3,500.00	
19,412 square feet of land.....	4,000.00	
		<hr/>
		\$7,500.00

Residence pastor St. Paul's M. E. church; Union street,
near Amherst:

Building	\$3,000.00	
		<hr/>
		\$2,500.00

Residence pastor First Congregational church; No. 590 Beech street, near Bridge:		
Building	\$5,000.00	
8,100 square feet of land.....	2,400.00	
	<hr/>	\$2,500.00
	\$7,400.00	
Residence pastor Grace Episcopal church; corner of Harri- son and Union streets:		
Building	\$6,000.00	
15,000 square feet of land.....	3,750.00	
	<hr/>	\$2,500.00
	\$9,750.00	
German School Society; Third, Bath, and Ferry streets:		
Building	\$4,500.00	
10,187 square feet of land.....	2,500.00	
	<hr/>	\$7,000.00
Elliot Hospital, Protestant; East Manchester:		
Building	\$23,000.00	
Land	7,000.00	
	<hr/>	\$30,000.00
Elliot Hospital lot; Hanover street, corner Chestnut:		
Building	\$3,000.00	
Land	13,000.00	
	<hr/>	\$16,000.00
Elliot Hospital:		
Land and buildings, Main street.....	\$1,000.00	
Land and buildings, Quincy street.....	2,500.00	
	<hr/>	\$6,500.00
Women's Aid Home; Pearl street, corner Beech:		
Building	\$15,000.00	
57,530 square feet of land.....	10,000.00	
	<hr/>	\$25,000.00
Women's Aid Home; Bridge street, corner Chestnut:		
Buildings	\$9,000.00	
6,037.5 square feet of land.....	3,000.00	
	<hr/>	\$12,000.00
Manchester Children's Home; Webster street:		
Building	\$20,000.00	
55,000 square feet of land.....	2,500.00	
	<hr/>	\$22,500.00
Residence pastor Swedish Lutheran church; Sagamore street, corner Pine:		
Building	\$3,000.00	
10,200 square feet of land.....	1,020.00	
	<hr/>	\$2,500.00
	\$4,020.00	
Gale Home:		
One half Martin's block, Elm street.....	\$25,000.00	
Land and building, Pearl street, corner Ash	25,000.00	
	<hr/>	\$50,000.00

EXEMPT FROM TAXATION.

Church property, Catholic.....	\$351,231.00	
Convent property, Catholic.....	72,925.00	
Parochial residences, Catholic.....	12,500.00	
Parochial schools, Catholic.....	245,650.00	
Hospitals and other charitable institutions.....	131,875.00	
	<hr/>	\$814,181.00

Church property, Protestant.....	\$441,640.00	
Parochial residences, Protestant.....	10,000.00	
Private school property, Protestant.....	7,000.00	
Hospitals and other charitable institutions.....	162,000.00	
	<hr/>	\$620,640.00

TAXABLE.

Land and buildings, Catholic.....	\$65,021.00	
Land and buildings, Protestant.....	14,170.00	
	<hr/>	\$79,191.00

Total exempt and taxable.....	\$1,514,012.00
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SCHEDULE OF PROPERTY USED FOR MANUFACTURING PURPOSES EXEMPT BY LAW FROM
TAXATION.

OWNER.	Occupant.	Location.	Goods man- ufactured.	Exemption commenced.	Exemption ceases.	Valuation.
Stark mills.....	Stark mills.....	Mill, W. N. McGregor bridge.....	Cotton.....	.....	April 1, 1900	\$200,000.00
West Side Shoe Co.....	Crafts & Green *	Land and buildings, West Hancock.....	Shoes.....	June 16, 1890	" 1, 1901	37,500.00
F. M. Hoyt & Co.....	F. M. Hoyt & Co. *	1½ acres land and building.....	".....	Oct. 6, 1891	" 1, 1902	20,700.00
Elliott Mfg. Co.....	Elliott Mfg. Co. †	{ 58,466 ft. land and factory, Valley } { and Wilson..... }	Silk.....	April 5, 1892	" 1, 1903	32,000.00
Kimball Carriage Co.....	Kimball Carriage Co. †	{ Stock and machinery..... }	Car'g's, etc.	" 1, 1890	" 1, 1900	32,000.00
Kennedy Land Co.....	Josselyn & Seavey	{ 1 acre land and building so. of brewery }	Furniture.....	Dec. 12, 1892	" 1, 1903	11,000.00
Rimmon Mfg. Co.....	Jennings & Stevens	{ Land and buildings, 20,000 feet, Kel- }	".....	" 12, 1892	" 1, 1903	8,000.00
Dana & Provost.....	Dana & Provost *	{ ly street..... }	".....	April 1, 1893	" 1, 1903	6,000.00
Eaton Heights Shoe Co.....	.....	{ Union street, at junction with C. & P. }	Wood.....	" 1, 1893	" 1, 1903	25,000.00
So. Manchester Build'g Ass'n	.....	{ R. R..... }	Shoes.....	June 5, 1894	June 5, 1904	20,000.00
Eureka Shoe Co.....	.....	{ Land and buildings, 75,000 feet, Lin- }	".....	Jan. 1, 1895	Jan. 1, 1905	30,000.00
Redman & Eaton Shoe Co.....	.....	{coln and silver streets..... }	".....	" 1, 1895	" 1, 1905	50,000.00
Imo Wrapper Co.....	Imo Wrapper Co.	{ Land, buildings, machinery, and ma- }	".....	Dec. 4, 1894	Dec. 4, 1904	35,000.00
".....	"	{ East Manchester..... }	Cotton.....	" 1, 1897	" 1, 1907	10,000.00
".....	"	{ "..... }	".....	April 1, 1898	April 1, 1908	20,000.00
						\$537,200.00

* Stock and machinery taxable.

† Stock and machinery,—value not determined.

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

Date of issue.	Description.	Number.	Denomination.	Amount.	Total.	Date when the principal is payable.	INTEREST.		
							Rate per ct.	When payable.	Where payable.
Dec. 16, 1865	Water bonds.	50	\$1,000	\$50,000	\$50,000	December 16, 1915	4	Semi-annual	At Suffolk Bank, Boston, Mass.
Oct. 1, 1864	"	50	1,000	50,000	50,000	October 1, 1914	4	"	"
Nov. 1, 1893	"	100	1,000	100,000	100,000	November 1, 1913	4½	"	"
Aug. 1, 1893	"	100	1,000	100,000	100,000	August 1, 1913	5	"	"
Jan. 1, 1892	"	100	1,000	100,000	100,000	January 1, 1912	4	"	"
Jan. 1, 1897 { Refunded. }	"	100	1,000	100,000	100,000	1, 1917	4	"	"
Jan. 1, 1872	"	60	100	6,000	.....	1, 1902	6	"	At Treasurer's Office, Manchester, N. H.
1, 1872	"	62	500	31,000	.....	1, 1902	6	"	"
1, 1872	"	63	1,000	63,000	.....	1, 1902	6	"	"
July 1, 1890 { Refunded. }	"	100	1,000	\$100,000	100,000	July 1, 1910	4	"	At Suffolk Bank, Boston, Mass.
July 1, 1885 { Refunded. }	"	100	1,000	100,000	100,000	1, 1915	4	"	"
Jan. 1, 1887 { Refunded. }	"	100	1,000	100,000	100,000	January 1, 1907	4	"	"
July 1, 1884	Bridge bonds.	15	100	1,500	.....	July 1, 1911	4	"	At Treasurer's Office, Manchester, N. H.
1, 1884	"	30	500	15,000	.....	1, 1911	4	"	"
1, 1881	"	39	1,000	39,000	.....	1, 1911	4	"	"
1, 1896	"	55	1,000	\$55,000	55,000	{ \$25,000 July 1, 1900; } { \$30,000 July 1, 1901 }	4	"	At Suffolk Bank, Boston, Mass.
April 1, 1885	City bonds.	50	1,000	50,000	50,000	April 1, 1905	4	"	"
1, 1885	"	50	1,000	50,000	50,000	1, 1907	4	"	"

April 1, 1885	" "	50	1,000	50,000	50,000	1, 1909	4	"	"	"	"
1, 1885	" "	5	1,000	5,000	5,000	1, 1911	4	"	"	"	"
July 1, 1893	Improvem't bonds.	100	1,000	100,000	100,000	January 1, 1913	4	"	"	"	"
June 1, 1894	" "	100	1,000	100,000	100,000	April 1, 1914	4	"	"	"	"
April 1, 1895	" "	100	1,000	100,000	100,000	1, 1915	4	"	"	"	"
1, 1896	" "	100	1,000	100,000	100,000	1, 1916	4	"	"	"	"
July 1, 1895	School bonds	80	1,000	80,000	80,000	{ \$10,000 July 1, 1900, and \$10,000 annu- ally thereafter. }	4	"	"	"	"
1, 1895	" "	80	1,000	80,000	80,000			"	"	"	"
1, 1896	" "	40	1,000	40,000	40,000	July 1, 1916	4	"	"	"	"
April 1, 1899	City bonds.	100	1,000	100,000	100,000	April 1, 1919	3½	"	"	"	"
					\$1,870,000						

TABULAR STATEMENT OF BONDED DEBT, CITY OF MANCHESTER,
N. H., DECEMBER 31, 1899.

YEAR.	Six per cent to build water-works.	At four per cent, water-works.	At five per cent, water bonds.	At four and a half per cent, water bonds.	Five per cent, cemetery bonds.	\$70,000 issued Oct. 31, 1863, \$50,000 issued July 1, 1864, six per cent, to fund debts.	Issued July 1, 1881, four per cent, to build McGregor bridge.	Issued April 1, 1895, four per cent, and 1899 three and one half per cent, to fund debts.
1890	\$400,000	\$200,000	.....	.....	\$13,850	\$120,000	\$60,000	\$155,000
1891	400,000	200,000	.....	.....	18,850	120,000	60,000	155,000
1892	300,000	300,000	.....	.....	20,000	120,000	60,000	155,000
1893 ...	300,000	300,000	\$100,000	\$100,000	26,000	120,000	60,000	155,000
1894	300,000	350,000	100,000	100,000	31,000	50,000	60,000	155,000
1895	200,000	500,000	100,000	100,000	36,250	.....	60,000	175,000
1896	200,000	500,000	100,000	100,000	42,250	.....	60,000	155,000
1897	100,000	600,000	100,000	100,000	50,000	.....	60,000	155,000
1898	100,000	600,000	100,000	100,000	50,000	.....	60,000	155,000
1899	100,000	600,000	100,000	100,000	50,000	.....	60,000	255,000

Four per cent improvement bonds.	Four per cent schoolhouse bonds.	Four per cent Granite-street bridge bonds.	Amount of six per cent bonds due and paid.	Amount of six per cent bonds refunded at four per cent.	Total amount of bonded debt Dec. 31, 1899.	Amount of six per cent city bonds on which interest has ceased, not yet present, ed for payment.	Amount of six per cent water bonds on which interest has ceased, not yet present, ed for payment.
.....	.....	.....	\$99,900	\$100,000	\$948,850	.....	\$100
.....	.....	.....	100	.....	953,850	.....	.....
.....	.....	.....	99,900	100,000	955,000	.....	100
\$100,000	.....	.....	65,500	.....	1,195,600	\$4,500	100
200,000	.....	.....	50,000	.....	1,296,000	.....	.....
300,000	\$20,000	.....	.....	100,000	1,571,250	.....	.....
400,000	230,000	\$130,000	.....	.....	1,917,250	.....	.....
400,000	220,000	105,000	.....	.....	1,890,000	.....	.....
400,000	210,000	80,000	.....	.....	1,855,000	.....	.....
400,000	200,000	55,000	.....	.....	1,920,000	.....	.....

REMARKS.—The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$50,000 in cemetery bonds, so called, not negotiable, in the hand of the city treasurer, which are not included in the \$1,870,000.

Total amount of bonded debt, including cemetery bonds	\$1,920,000.00
Net indebtedness for water purposes.....	900,000.00

Net debt after deducting water debt.....	\$1,020,000.00
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As shown in the assessors' books for the year 1899:

The assessed value of personal property, including poll tax	\$5,895,841.00
The assessed value of real estate.....	25,595,943.00

Total value for taxation.....	\$31,491,784.00
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Tax rate, 1.95 per cent on a hundred.

Per cent of net indebtedness (excluding debt for water purposes) to assessed valuation.....	3.239
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Per cent of net indebtedness (including debt for water purposes) to assessed valuation.....	6.097
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Population, census of 1890.....	43,983
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Population, census of 1880.....	32,458
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Increase of population in ten years.....	11,525
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Increase of population since 1890 (estimated).....	16,017
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No issue of bonds has ever been contested.

The interest on the debt has always been promptly paid at maturity.

None of the bonds are stated specifically as being payable in gold.

None of the bonds can be called for redemption.

A sinking fund was established in 1893.

Total amount of sinking fund December 31, 1899, \$232,733.04.

The power of the city to borrow money in relation to the water-works is limited to the sum of \$600,000 by section 6, chapter 70, New Hampshire Laws of 1871, entitled "An act to enable the city of Manchester to establish water-works," except as further extended an amount of \$300,000, by laws of 1891, chapter 26; and \$200,000 by laws of 1895, chapter 172.

SUMMARY OF CITY DEBT.

Amount of bonded and temporary debt January 1, 1899..	\$1,965,000.00
Accrued interest on bonded debt.....	32,650.00

	\$1,997,650.00
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Amount of bonded and temporary debt paid in 1899.....	45,000.00
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Total indebtedness December 31, 1899.....	\$1,952,650.00
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AVAILABLE ASSETS.

Net cash on hand December 31, 1899.....	\$145,231.88
Taxes uncollected, list of 1899.....	59,972.58
Stock of Suncook Valley Railroad, estimated value.....	14,500.00
Sinking fund December 31, 1899.....	232,733.04
	<hr/>
	\$452,437.50

BONDED DEBT.

Total net indebtedness January 1, 1899.....	\$1,626,622.53
Total net indebtedness January 1, 1900.....	1,500,213.50
	<hr/>
Decrease	\$126,409.03

STATEMENT OF THE ANNUAL INTEREST CHARGE ON THE BONDED DEBT.

YEAR.	Six per cent water bonds.	Four per cent water bonds.	Four and a half and five per cent water bonds.	Five per cent cemetery bonds.	Six per cent to fund debt.	Four per cent to build McGregor bridge.	Four per cent to fund debt.	Four per cent improvement bonds and 3½ per cent city bonds.	Four per cent school bonds and Granite bridge.	Total of annual interest.
1890....	\$27,000	\$6,000	.....	\$623.75	\$7,200	\$2,400	\$6,200	.....	.....	\$49,423.75
1891....	24,000	8,000	.....	813.92	7,200	2,400	6,200	.....	.....	48,613.92
1892....	18,000	12,000	.....	1,000.00	7,200	2,400	6,200	.....	.....	46,800.00
1893....	18,000	12,000	.....	1,041.66	7,200	2,400	6,200	.....	.....	46,841.66
1894....	18,000	14,000	\$9,500	1,550.00	.....	2,400	6,200	\$8,000	.....	59,650.00
1895....	18,000	14,000	9,500	1,812.50	.....	2,400	6,200	12,000	\$4,800	68,712.50
1896....	12,000	20,000	9,500	2,112.50	.....	2,400	6,200	16,000	14,400	82,612.50
1897....	9,000	22,000	9,500	2,500.00	.....	2,400	6,200	16,000	13,000	80,600.00
1898....	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	16,000	13,000	79,000.00
1899....	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	11,400	81,500.00

PUBLIC BUILDINGS OCCUPIED IN PART BY PRIVATE PARTIES.

BATTERY BUILDING.

Annual rent.	Location.	Occupants.	Rooms.	Command.	Remarks.
Free	Manchester street.....	First Light Battery.....	2 rooms.....	First N. H. L. Battery	Battery occupies first and second floor and basement. Guards occupy third floor. Ward meetings are held in battery room on second floor.
"	"	Emmet Guards	1 room	Emmet Guards	

WARD FIVE WARDROOM.

Annual rent.	Location.	Occupants.	Rooms.	Command.	Remarks.
Free	Lake avenue.....	Sheridan Guards.....	1 room	Sheridan Guards	Ward meetings held in building.

Valuation of Real Estate Owned by the City.

High school, Beech street, corner Lowell:		
Building	\$170,000.00	
59,400 square feet of land.....	17,820.00	
		\$187,820.00
Franklin-street school, Franklin street, corner Pleasant:		
Building	\$16,000.00	
19,200 square feet of land.....	19,200.00	
		\$35,200.00
Spring-street school, Spring street:		
Building	\$13,000.00	
13,600 square feet of land.....	13,600.00	
		\$26,600.00
Lincoln-street school, Lincoln street, corner Merrimack:		
Building	\$45,000.00	
40,000 square feet of land.....	8,000.00	
		\$53,000.00
Ash-street school, Ash street, corner Bridge:		
Building	\$50,000.00	
57,537 square feet of land.....	17,262.00	
		\$67,262.00
Main-street school, North Main street, West Manchester:		
Building	\$6,000.00	
40,293.4 square feet of land.....	10,073.00	
		\$16,073.00
Webster-street school, Webster street:		
Building	\$39,000.00	
55,714¾ square feet of land.....	13,928.00	
		\$52,928.00
Blodget-street school, Blodget street:		
Building	\$1,500.00	
9,000 square feet of land.....	3,600.00	
		\$5,100.00
Lowell-street school, Lowell street, corner Chestnut:		
Building	\$1,000.00	
9,000 square feet of land.....	9,000.00	
		\$10,000.00
Merrimack-street school, Merrimack street, corner Union:		
Building	\$15,000.00	
12,600 square feet of land.....	6,300.00	
		\$21,300.00
Parker school, South Main street, West Manchester:		
Building	\$20,000.00	
13,650 square feet of land.....	2,047.00	
		\$22,047.00
Bakersville school, Elm street, south:		
Building	\$10,000.00	
24,181 square feet of land.....	3,628.00	
		\$13,628.00

Stark District school, River road, north:

Building	\$1,000.00	
43,500 square feet of land.....	100.00	
		\$1,100.00

Amoskeag school, Front street, Amoskeag:

Building	\$8,000.00	
6,000 square feet of land.....	1,000.00	
		\$9,000.00

Rimmon school, corner Amory and Dubuque streets:

Building	\$17,400.00	
16,600 square feet of land.....	2,490.00	
		\$19,890.00

Goffe's Falls school, Goffe's Falls:

Building	\$4,000.00	
47,916 square feet of land.....	250.00	
		\$4,250.00

Harvey District school, Nutt road:

Building	\$2,000.00	
21,780 square feet of land.....	100.00	
		\$2,100.00

Webster Mills school, Webster Mills:

Building	\$400.00	
5,445 square feet of land.....	100.00	
		\$500.00

Old Hallsville school, East Manchester:

Building	\$500.00	
30,075 square feet of land.....	3,008.00	
		\$3,508.00

Youngsville school, Youngsville:

Building	\$500.00	
51,228 square feet of land.....	100.00	
		\$600.00

Mosquito Pond school, Mosquito Pond:

Building	\$400.00	
10,890 square feet of land.....	100.00	
		\$500.00

Pearl-street school:

Building	\$18,700.00	
Land	3,200.00	
		\$21,900.00

Varney school, Bowman street, corner Mast, West Manchester:

Building	\$43,750.00	
Land	6,700.00	
		\$50,450.00

New Hallsville school, Jewett street, corner Young, East Manchester:

Building	\$29,800.00	
44,000 square feet of land.....	3,300.00	
		\$33,100.00

Straw school, Chestnut street, corner Harrison:

Building	\$30,000.00	
32,400 square feet of land.....	16,200.00	
		<u>\$46,200.00</u>

New Wilson school, Wilson, Cedar, and Auburn streets:

Building	\$30,000.00	
40,000 square feet of land.....	5,000.00	
		<u>\$35,000.00</u>
		<u>\$739,056.00</u>

ENGINE-HOUSES.

Engine-house and stable, Central station, Vine street:

Building	\$31,800.00	
21,718.86 square feet of land.....	25,438.00	
		<u>\$57,238.00</u>

North Main-street engine-house, North Main street, West Manchester:

Building	\$18,000.00	
11,819 square feet of land.....	2,955.00	
		<u>\$20,955.00</u>

Webster-street engine-house, Webster street, corner Chestnut:

Building	\$12,000.00	
8,510 square feet of land.....	2,180.00	
		<u>\$14,180.00</u>

Merrimack engine-house, Lake avenue:

Building	\$15,000.00	
10,000 square feet of land.....	3,000.00	
		<u>\$18,000.00</u>

Hosehouse and cottage, Maple street, corner East High:

Building	\$3,000.00	
18,330 square feet of land.....	3,666.00	
		<u>\$6,666.00</u>

Engine-house and ward room, ward 9, Rimmon and Amory streets, West Manchester:

Building	\$22,755.00	
6,000 square feet of land.....	870.00	
		<u>\$23,625.00</u>

South Manchester hosehouse:

Building	\$4,200.00	
4,278 square feet of land.....	684.48	
		<u>\$4,884.48</u>
		<u>\$145,518.48</u>

OTHER PUBLIC BUILDINGS AND LOTS.

City library, Dean avenue, corner Franklin street:

Building	\$35,000.00	
15,000 square feet of land.....	30,000.00	
		<u>\$65,000.00</u>

City Hall, Elm street, corner Market:

Building	\$20,000.00	
100,000 square feet of land.....	150,000.00	
		<hr/> \$170,000.00

City farm, Mammoth road:

Building	\$5,000.00	
46.66 acres, west Mammoth road.....	70,000.00	
81.55 acres, east Mammoth road.....	65,240.00	
		<hr/> \$140,240.00

Court house, Franklin street, corner West Merrimack:

Building	\$20,000.00	
19,000 square feet of land.....	57,000.00	
		<hr/> \$77,000.00

Battery building, Manchester street:

Building	\$13,000.00	
3,400 square feet of land.....	5,100.00	
		<hr/> \$18,100.00

Police station, Manchester street, corner Chestnut:

Building	\$40,000.00	
7,500 square feet of land.....	15,000.00	
		<hr/> \$55,000.00

Slayton lot, Manchester street:

Police patrol stable.....	\$4,000.00	
Building	300.00	
2,908 square feet of land.....	4,700.00	
		<hr/> \$9,000.00

City stable and other buildings, Franklin street:

Building	\$15,950.00	
44,656 square feet of land.....	89,312.00	
		<hr/> \$105,262.00

City stable, district No. 10..... \$1,000.00

City scales, Franklin street:

Building	\$300.00	
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Gravel lots, Goffstown:

2 acres	\$400.00	
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Police station, Clinton street, West Manchester:

Building	\$3,500.00	
3,790 square feet of land.....	1,000.00	
		<hr/> \$4,500.00

Gravel lot, district No. 10, bought of Brooks & Brock (city has right to remove gravel until August 25, 1903):

1 $\frac{1}{3}$ acres	\$500.00	
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Ward 5 ward room, Lake avenue:

Building	\$4,500.00	
Land	1,000.00	
		<hr/> \$5,500.00

\$651,802.00

PERSONAL PROPERTY OWNED BY THE CITY.

Property in care city engineer.....	\$1,149.00
in care chief engineer fire department.....	107,177.50
in care street and park commission.....	29,711.02
in care superintendent of schools.....	36,755.00
in care city messenger.....	3,000.00
in care city marshal and janitor.....	7,250.00
in care superintendent of city farm.....	12,544.87
in care trustees city library.....	30,000.00
in care superintendent of Pine Grove cemetery..	248.35
in care superintendent of Valley cemetery.....	106.00
Stock in Suncook Valley Railroad, in care of city treasurer	50,000.00
Personal property in care city weigher.....	1,000.00
	<hr/>
	\$278,941.74
Uncollected taxes in 1899.....	\$59,972.58
Net cash in the treasury, December 31, 1899.....	145,231.88
	<hr/>
	\$205,204.46

OTHER REAL AND PERSONAL ESTATE OWNED BY THE CITY.

Soldiers' monument	\$25,000.00
Permanent inclosure of commons.....	10,200.00
Amoskeag bridge over Merrimack river.....	25,000.00
Fountains and water-troughs on streets and commons....	3,600.00
City tomb	10,000.00
McGregor bridge	90,000.00
Granite bridge	130,000.00
South Main-street bridge, over Piscataquog river.....	28,450.00
Second-street bridge, over Piscataquog river.....	52,036.06
Print-Works bridge, on Granite, over lower canal.....	5,000.00
Two bridges in highway district No. 9.....	2,000.00
One bridge at Goffe's Falls.....	1,000.00
Expended on construction of sewers.....	679,611.64
	<hr/>
	\$1,061,897.70

PARKS AND CEMETERIES.

Valley cemetery, 19.7 acres.....	\$200,000.00
Pine Grove cemetery, about 96 acres.....	46,700.00
Amoskeag cemetery, 1.23 acres.....	4,340.00
Stark park, 28 acres.....	9,000.00
Derryfield park, 76 acres	25,000.00
Concord common, 4.48 acres.....	200,000.00
Tremont common, 2.25 acres.....	40,000.00
Hanover common, 3 acres.....	100,000.00
Park common, 3.49 acres.....	60,000.00
Merrimack common, 5.89 acres.....	200,000.00

Wagner's park, 9.85 acres.....	\$12,000.00
Land on Piscataquog river	3,500.00
	<hr/>
	\$900,540.00

WATER-WORKS.

Real estate and personal property of water-works, at cost price	\$1,483,702.23
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RECAPITULATION.

Real estate owned by the city, schoolhouses.....	\$739,056.00
Real estate owned by the city.....	651,802.00
Real estate owned by the city, engine-houses.....	145,548.48
Water-works at cost price.....	1,483,702.23
Personal property owned by the city.....	278,941.74
Uncollected taxes and cash.....	205,204.46
Other real and personal property.....	1,061,897.70
Parks and cemeteries.....	900,540.00
	<hr/>
	\$5,466,692.61

PROPERTY ACCOUNT.

Inventory of assets, December 31, 1899.....	\$5,466,692.61
Inventory of assets, December 31, 1898.....	5,393,852.90
	<hr/>
Gain in valuation	\$72,839.71

Auditor's Office.

City hall building. Open from 8 to 12 A. M., 1.30 to 5 P. M.; 7 to 9 P. M. on Thursday.

In every bill presented to the city auditor for his approval, the following points will be considered and passed upon:

1. Is the subject matter of the bill under examination within the scope of the powers conferred by the legislature on the city government?

2. Is the bill certified by the party legally authorized to make the contract, or cause the expenditure to be made?

3. Has any appropriation been made to meet the expenditure, and is there a balance unexpended sufficient to pay this bill?

4. Are the number of articles in the bill, or the measurements either of dimensions, quantities, or weights correctly and fully stated, and is the proof of the delivery to the city of the whole amount charged sufficient?

5. Is the price charged a fair market price, or is it so largely in excess as to require the attention of the city councils to be called to the same?

6. Is the bill written in a fair legible hand, correctly cast, and on paper of sufficient length and width to admit of its proper backing and filing?

7. If the bill is in part payment of a contract, the date and the total amount of the contract, the amount already paid, the amount of the work not yet completed, and the per cent retained, if any, should be stated in the bill.

8. Any other inquiries in matters of law and fact which affect the question of indebtedness before the auditor.

9. Approval, rejection, or suspension for further information or correction as the circumstances of each case may require.

COURT DECISIONS, LEGAL POINTS AND RULES, RELATING TO THE APPROVAL
OR DISAPPROVAL OF CLAIMS AGAINST THE CITY.

No bill or account shall be paid by the city treasurer until the auditor has approved it as correct.

Public trusts or powers devolved by law or charter on the city councils cannot be delegated to others. Dillon's Municipal Corporations, section 96, volume 1.

No member of either branch [of the city councils], except the mayor, shall receive any compensation for his services, or shall hold any office or agency created during his continuance in office. General Laws, chapter 46, section 13.

The executive powers of the city, except where vested in the mayor, shall be exercised by the mayor and aldermen. General Laws, chapter 46, section 14.

The mayor and aldermen have all the powers and authority of selectmen of towns unless it is otherwise provided by law. General Laws, chapter 46, section 14.

Joint standing committees have advisory powers only; they cannot legally be endowed with executive or legislative powers by ordinance or resolution of the city councils, as no by-law or ordinance shall be repugnant to the constitution or laws of the state.

No member of either branch of the city councils can enter into any verbal or written contract to furnish supplies to, or do any work for the city. Any firm of which a member is also a member of the city councils is included in this prohibition.

No city official, or department, or board of officials having legal power to expend money for the benefit of the city can purchase of or contract with themselves, with any one of the board, or with any firm with which one of said officials is a member. Dillon's Municipal Corporations, volume 1, page 136, section 444.

Every bill against the city shall specify the particular appropriation to which the same should be charged, and the moneys paid will be charged to such appropriations only.

He who is intrusted with the business of others cannot be allowed to make such business a source of profit to himself.

All orders passed by the city councils authorizing a ministerial act to be performed by its agent or agents must be strictly construed, and the act to be done must be specifically stated.

The board of engineers have the authority of firewards. (General Laws, chapter 106, section 11.) They have no power conferred upon them by law or ordinance to purchase new apparatus of any kind.

The joint standing committee on fire department have advisory powers only.

The laws and ordinances require the city auditor to withhold his signature from all bills against any appropriation where the amount of the appropriation is expended, until the city council shall have provided the means of paying the same. Section 4, chapter 3 of the City Ordinances, and section 4, ordinances relating to the duties of the city auditor, approved January 7, 1890.

The power of towns to raise and appropriate money is derived solely from statutory provisions, which restrict the power to certain specified objects and other necessary charges.

Votes to raise or pay money for purposes other than those prescribed by statute are void, and towns cannot be compelled, and generally will not be permitted, to carry such votes into effect.

It is not left to the unrestricted and irresponsible discretion of towns to vote gifts or to select donees; their charity is a duty defined, commanded, enforced, and regulated, and the objects of it are designated by law.

A majority cannot dispose of the property of a minority in an unlimited manner. *Gove v. Epping*, 41 N. H. 539.

The following parties are authorized by law or ordinance to make expenditures, within the scope of their powers, for their respective departments: For fire department and fire alarm telegraph, the chief engineer, to be submitted monthly to the approval of the board of engineers; for police department, mayor and police commission; for police court, police judge; for water-works department, superintendent, subject to the rules of the board of commissioners and ordinances relating thereto; for city farm, superintendent; for overseers of the poor, each overseer, subject to the rules of the board of overseers, and their monthly review and approval; for schools, superintendent, or such person as the board of school committee may designate, bills to be approved by the board monthly; for streets, sewers, and other work under these departments, street and park commissioners; for city clerk's office, treasurer's office, tax collector's office, assessor's office, auditor's office, incidental expenditures, city physician, city messenger, city solicitor, city engineer,—mayor; for cemeteries, superintendents, subject to board of trustees (to consist of citizens not members of the city councils); for health department, board of health, subject to approval of mayor; city library, board of trustees or person designated by them. It may be stated as a general rule, that all subordinate officials are under the supervision and control of the mayor, subject to such limitations and restrictions as the board of aldermen, acting as a board, may require.

RESOLUTIONS, ORDERS, ORDINANCES.

RESOLUTIONS, ORDERS, ORDINANCES, PASSED IN 1899.

CITY OF MANCHESTER.

RESOLUTION relating to appropriating \$300 for Investigating the Garbage Question.

Resolved, That the sum of three hundred dollars (\$300) be and hereby is placed at the disposal of the mayor to be used at his discretion to investigate the garbage question.

Passed February 15, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to the issuance of \$100,000 of City Bonds to fund the \$100,000 Notes due April 1, 1899.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of obtaining one hundred thousand dollars (\$100,000) with which to pay the one hundred thousand dollars (\$100,000) of temporary notes now outstanding, which come due April 1, 1899, there be issued the bonds of the city of Manchester to the amount of one hundred thousand dollars (\$100,000), said bonds to be dated April 1, 1899, and payable to bearer twenty (20) years from the date thereof; said bonds to bear the city seal, to be signed by the mayor and countersigned by the city treasurer, and to bear interest at the rate of three and one half ($3\frac{1}{2}$) per cent per annum, from date, and to have coupons attached bearing the facsimile signature of the city treasurer for the payment of said interest, at said rate, semi-annually, on the first days of April and October of each year; and the city treasurer is authorized to fix the place of payment of interest and principal of said bonds, and is hereby authorized to sell said bonds, and do all things necessary and proper to complete and carry into effect the issue of said bonds; said bonds to be issued in accordance with an act of the legislature of New Hampshire, passed at the January session, 1895, entitled, "An act to authorize municipal corporations to issue bonds."

This resolution shall take effect upon its passage.

Resolved, further, That for the purpose of paying the interest and principal of said bonds as the same shall become due, there shall be annually raised by tax by the common council in the years 1899 to 1918, inclusive, such sum of money as shall be sufficient to meet the interest upon the bonds each year outstanding; and a further sum of five thousand dollars (\$5,000) each year for a sinking fund for the payment of the principal of said bonds as it shall become due, until a sufficient sinking fund has been so raised, the same to be turned over to the board of sinking fund commissioners created by ordinance of November 17, 1893, and applied to the payment of said bonds.

Resolved, further, That the city treasurer be and hereby is instructed and authorized to advertise for bids for sale of said bonds, and that a committee of three councilmen be appointed to be present at the opening of the bids with power to accept or reject the same.

Passed February 17, 1899.

CITY OF MANCHESTER.

RESOLUTION making a Temporary Loan of Three Hundred Thousand Dollars.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of paying such claims against the city as may fall due before the twenty-first day of December, 1899, the city treasurer be and hereby is authorized to make such temporary loans from time to time, for the use of the city, of sums not exceeding the amount of three hundred thousand dollars, being in anticipation of the taxes of the present year, giving for the same the notes of the city, signed by the city treasurer and countersigned by the mayor.

Passed February 25, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to the Exemption from Taxation of H. B. Reed & Co.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, H. B. Reed & Co. desire to locate their business and carry on the manufacture and sale of their own product of shoes and other articles in McGregorville, in the city of Manchester; therefore,

Resolved, That H. B. Reed & Co. aforesaid, their machinery, materials, raw and in process of manufacture, and other property necessary in conducting said business be and hereby are exempt from all taxation for a period of ten years from the first day of April, A. D. 1899.

Passed March 7, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to Interest on Deposits of the City of Manchester.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the moneys of the city of Manchester be deposited in such bank or banks as shall pay the largest rate of interest to said city of Manchester upon daily balances in said bank or banks from the first day of April, 1899, to the first day of April, 1900; and that the city treasurer be and hereby is instructed to advertise for bids from the banks of the city of Manchester by sending to each of said banks a copy of this resolution; the city of Manchester, by its agents, the treasurer of said city, reserving the right to reject any or all bids and call for such other bids as may be necessary to carry out the intent of this resolution; and the mayor and the treasurer of said city of Manchester are hereby authorized and empowered to accept such bid or bids as will give the city of Manchester the largest rate of interest upon the daily balances on deposits of the moneys of said city of Manchester in said bank or banks from the first day of April, 1899, to the first day of April, 1900.

Passed April 4, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to the Transfer of Money.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to transfer the sum of twelve hundred dollars (\$1,200) from the appropriation known as "To be hereafter appropriated," to the appropriation known as contingent fund of the school board.

Passed June 16, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to a Transfer of Money.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk transfer the sum of one hundred dollars (\$100) from the appropriation for bed for city patients, Emergency Ward, Elliot Hospital, to the appropriation for band concerts, and that the mayor be and hereby is authorized and empowered to expend said sum of one hundred dollars (\$100) for open air band concerts in addition to the sum of three hundred dollars (\$300) already appropriated for the year one thousand eight hundred and ninety-nine.

Passed June 16, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to a Transfer of Money.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to transfer from the appropriation known as "To be hereafter appropriated" the sum of eleven hundred fifty-one and 8-100 dollars to the appropriation to be known as land taken for new highways, the same to be used to pay the following claims:

Levi Dodge, damages widening and straightening South Main street	\$12.15
George S. Eastman, damages widening and straightening South Main street	238.93
Frank M. Goings	100.00
Addison G. Gray, damages occasioned by building Titus avenue	500.00
	<u>\$1,151.08</u>

Passed June 16, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to the Bequest of Mary D. C. Perkins to the City of Manchester.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, Mary D. C. Perkins, late of Manchester, N. H., deceased, by her last will and testament, dated April 25, 1894, gave and bequeathed to the city of Manchester, in trust, the sum of two hundred dollars, the annual income thereof to be expended for keeping in proper condition lot No. 300 in the Valley cemetery, so called, and formerly owned by William Dinsmore, and now by his heirs; and,

WHEREAS, said Perkins, afterwards in her lifetime, made other provision for said purpose, and paid upon the third day of April, 1896, the sum of one hundred dollars to said city for said purpose; therefore,

Resolved, That said city hereby waives all right to the said bequest and legacy, and assigns and releases to the executor of said will all claims against the estate of said Mary D. C. Perkins, under said will or otherwise.

Passed July 11, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to the Transfer of Money.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That in view of the fact that the appropriation for city hall expenses for the year 1899 was fixed at a sum one thousand dollars less than was absolutely necessary to meet ordinary running expenses; be it herewith

Resolved, That the city clerk be and hereby is authorized to make the following transfer: From the appropriation known as money "To be hereafter appropriated" to the appropriation for city hall expenses, the sum of one thousand dollars (\$1,000).

Passed August 7, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to the Transfer of \$250.

Resolved by the Board of Common Council of the City of Manchester, in City Council assembled, as follows:

WHEREAS, Gustav Theuner of said Manchester has petitioned the board of mayor and aldermen of said city, as required by the public statutes of the state of New Hampshire, to assess the damages to a certain tract of land containing two and one half acres, owned by the said Theuner, situate on the east side of Railroad street, so called, in said Manchester, near the southerly terminus of Bartlett street, a public highway laid out by the board of mayor and aldermen of said city August 31, 1893, occasioned by surface water and drainage on said Bartlett street gathering and turning in a body over and upon said land stones, gravel, sand, sticks, and other materials, rendering a large part of said land unfit for cultivation; and,

WHEREAS, several hearings were held upon said petition; and,

WHEREAS, said premises were viewed by said board of mayor and aldermen; and,

WHEREAS, at a meeting of said board of mayor and aldermen, Friday, August 25, 1899, said Theuner was awarded the sum of two hundred and fifty dollars (\$250) for all damages and all future damages which may be occasioned by the same cause; therefore be it

Resolved, that the city clerk transfer from the appropriation "To be hereafter appropriated" to the appropriation for incidental expenses, for the purpose of paying said claim, the sum of two hundred and fifty dollars (\$250).

Passed September 23, 1899.

CITY OF MANCHESTER.

RESOLUTION in regard to Block Paving upon Elm Street.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the business interests of Manchester would be the better served by the further extension of the block paving upon Elm street rather than by the construction of a crematory at this season of the year, and they would recommend that the provisional appropriation made at the beginning of the present year be transferred so as to allow of the extension, in the interests of good roads, of the block paving upon our principal business thoroughfare.

Passed September 5, 1899.

CITY OF MANCHESTER.

RESOLUTION recommending to the Board of Common Council Certain Transfers of Money.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is instructed to prepare and present to the board of common council, as recommendations from the board of mayor and aldermen, resolutions transferring from the appropriation known as "The appropriation to be hereafter appropriated," to the appropriation for repairs on public buildings, the sum of three hundred dollars and fifty-eight cents (\$300.58), and to the appropriation for incidental expenses the sum of fifty-four dollars and fifty cents (\$54.50), for the purpose of paying the following-named claims: Joseph St. Laurent, \$13.61; Joseph St. Laurent, \$222.63; C. A. Trefethen, \$51.50; John H. Wilson, \$12.84; N. H. Light Battery, \$54.50.

Said claim of \$300.58 contracted by changing clock weights in the following-named places: Lincoln-street school, \$75.85; Webster-street school, \$97.24; City Hall, \$101.04; Fire King engine-house, \$13.61; Bakersville schoolhouse, \$12.84.

Said claim of \$54.50 contracted by firing salute of seventeen guns Friday, October 13, 1899, in honor of Admiral Dewey.

Passed October 24, 1899.

CITY OF MANCHESTER.

RESOLUTION discontinuing a Portion of a Highway claimed to have been laid out by the Selectmen of Bedford in 1838.

Resolved by the Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, there is in the city of Manchester a certain existing highway known as the New Mast road, extending in a northerly direction from Mast street to the old town line between Bedford and Goffstown, which highway has been used as such for more than thirty years; and on September 29, 1899, this board voted, on the petition of H. S. Hoitt and others, to widen and straighten said existing highway and established therefor certain definite bounds and lines; and,

WHEREAS, it is claimed by some owners of land abutting on said existing highway that, in 1838, the selectmen of Bedford (this part of Manchester then being a part of Bedford), on the petition of William P. Riddle and others, laid out a highway which included the existing highway, but the legal laying out of such highway by said selectmen of Bedford is disputed and denied by other abutting owners, and the bounds and lines of such highways as the selectmen of Bedford undertook to lay out are now unknown, and it is now impossible to correctly locate them; and,

WHEREAS, in the opinion of this board, the existing highway as widened and straightened by said vote of September 29, 1899, is ample and sufficient for the accommodation of the public travel;

Resolved, That in order to settle all disputed questions arising out of the alleged laying out of a highway by the selectmen of Bedford and its relations to and with the existing highway, all portions of the said highway laid out by the selectmen of Bedford on December 8, 1838 (if any there was legally laid out by them), which lie outside of the bounds and lines of New Mast road as fixed by the vote of this board on September 29, 1899, be and the same are hereby discontinued, and each owner of land abutting on said New Mast road, throughout the length of this discontinuance, be and hereby is awarded one cent as damages therefor.

Passed October 24, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to Certain Transfers of Money.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to transfer from the appropriation known as "The appropriation to be hereafter appropriated" to the appropriation known as appropriation for repairs of highways, one thousand dollars (\$1,000); to the appropriation known

as appropriation for city teams, five hundred dollars (\$500); and to the appropriation known as appropriation for scavenger service, twenty-five hundred dollars (\$2,500).

Passed November 10, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to the Transfer of \$100.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to transfer from the appropriation known as "To be hereafter appropriated" to the appropriation to be known as the appropriation for the board of examiners of plumbers, the sum of one hundred dollars (\$100).

Passed November 10, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to a Certain Transfer of Money.

Resolved by the Board of Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to transfer from the appropriation known as "The appropriation to be hereafter appropriated" to the appropriation known as fire-alarm telegraph the sum of five hundred dollars (\$500).

Passed November 10, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to a Certain Transfer of Money.

Resolved by the Board of Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to transfer from the appropriation known as "The appropriation to be hereafter appropriated," to the appropriation known as the appropriation for repairs on public buildings, the sum of three hundred dollars and fifty-eight cents (\$300.58); and that said sum of three hundred dollars and fifty-eight cents (\$300.58), being contracted by the committee on lands and buildings by changing the clock weights in certain buildings (Lincoln-street school, \$75.85; Webster-street school, \$97.24; City Hall, \$101.04; Bakersville school, \$12.84; Fire King engine-house, \$13.61), be used

to pay the following claims: Joseph St. Laurent, \$13.61; Joseph St. Laurent, \$222.63; C. A. Trefethen, \$51.50; John H. Wilson, \$12.84; total, \$300.58.

Passed November 16, 1899.

CITY OF MANCHESTER.

RESOLUTION to Transfer \$1,500.

Resolved by the Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to transfer from the appropriation known as "The appropriation to be hereafter appropriated" the sum of one thousand dollars (\$1,000) to the appropriation known as repairs of schoolhouses, and also the sum of five hundred dollars (\$500) to the contingent fund of the school board.

Passed November 16, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to a Certain Transfer of Money.

Resolved by the Board of Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to transfer from the appropriation known as "The appropriation to be hereafter appropriated" to the appropriation known as the appropriation for incidental expenses, the sum of fifty-four dollars and fifty cents (\$54.50); and that said sum of fifty-four dollars and fifty cents (\$54.50), being contracted by the firing of a salute of seventeen guns Friday, October 13, 1899, in honor of Admiral Dewey, be used to pay the following claim: N. H. Light Battery, \$54.50.

Passed November 16, 1899.

CITY OF MANCHESTER.

RESOLUTION relating to the Pay of the Employees of the Street and Park Commissioners.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, the time of the employees of the street and park commission has been reduced from ten hours a day to nine hours, and their pay fixed by the hour, thus reducing their wages; therefore, be it

Resolved, That we earnestly recommend that the street and park commission fix the pay of their employees at the same price per day for nine hours' work as they have been paying during the summer for ten hours' work.

Passed December 8, 1899.

CITY OF MANCHESTER.

AN ORDER to erect Six Electric Lights.

Ordered, If the Board of Mayor and Aldermen concur: That the joint standing committee on electric lights be authorized to order in the following electric lights:

Corner Bartlett and Amory streets.

Corner Alsace and Amory streets.

Corner Coolidge avenue and Bremer street.

Corner Brown avenue, near tannery.

Corner Mammoth road and Cilley street.

Corner Mitchell and Beech streets.

Passed January 2, 1899.

CITY OF MANCHESTER.

AN ORDER relating to Sleds for Fire Department.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on fire department be and is hereby authorized to purchase, for use in the fire department, one pair of sleds, now located in the central fire station, the price of said sleds not to exceed the sum of seventy-five dollars (\$75), in full payment therefor, and that said sum of seventy-five dollars (\$75) be charged to the appropriation for fire department.

Passed January 2, 1899.

CITY OF MANCHESTER.

AN ORDER to build Certain Sewers.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build certain sewers, as follows:

1st. Commencing at the manhole at the intersection of Hayes avenue and Old Falls road; thence in an easterly direction in Hayes avenue to Chase avenue.

2d. Commencing at the manhole at the intersection of Silver street with Beech street; thence in a southerly direction in Beech street, to the manhole at the intersection of Beech street and Somerville street; the expense thereof to be charged to the appropriation for new sewers.

Passed January 2, 1899.

CITY OF MANCHESTER.

AN ORDER relating to the Transfer of Money.

Ordered, If the Board of Mayor and Aldermen concur: That there be appropriated the sum of fifty-five dollars (\$55) for the purpose of paying W. F. Hart for the services of band at the reception tendered the Sheridan Guards on their return from United States service. And the mayor is hereby authorized to pay said bill out of the foregoing appropriation, and said sum of fifty-five dollars (\$55) is hereby transferred from the appropriation for reserve fund to the appropriation to pay said band.

Passed January 2, 1899.

CITY OF MANCHESTER.

AN ORDER relating to the Final Transfers for the Year 1898.

Ordered, If the Board of Mayor and Aldermen concur: That the city clerk be and hereby is authorized to make the following transfers:

To reserved fund:

From interest	\$129.31
city hall	54.95
land sold for taxes.....	814.98
city officers' salaries.....	83.28
mayor's incidentals	5.50
auditor's department	50.99
street and park commission.....	83.42
repairs of highways	567.82
new highways	474.39
watering streets	1,325.18
street sweeping	866.53
bridges	711.89
scavenger service	337.35
repairs of sewers	499.36
new sewers	408.75
lighting streets	438.09
paving Hanover street.....	344.06
health department	209.34
repairs of schoolhouses.....	1,055.42
furniture and supplies	483.69
books and stationery.....	65.75
care of rooms	16.23
evening schools	330.10
evening drawing school.....	39.94
manual training	108.15
free text-books	71.02
police court	215.02
police commission	605.01

From Pearl-street schoolhouse repairs.....	\$136.80
Stark park	251.03
Valley cemetery	291.95
Amoskeag cemetery	16.00
Pine Grove cemetery.....	143.76
Merrill yard	95.10
paupers off farm	589.93
indigent soldiers	51.75
decoration of soldiers' graves.....	14.06
abatement of taxes	357.36
free cash in treasury in excess of appropriations....	9,405.30
	<hr/>
	\$21,748.56
From reserved fund:	
To printing and stationery.....	\$145.42
incidental expenses	482.86
snow and ice	2,197.22
land taken for highways.....	2,686.27
paving streets	1,313.72
macadamizing streets	1,712.25
grading for concrete	193.40
city teams	77.31
paving Elm street.....	355.34
fuel	717.11
contingent expenses	526.03
teachers' salaries	7,111.62
fire department	92.58
fire alarm telegraph.....	355.68
police station	132.72
repairs of buildings	1,166.00
new schoolhouse, Amoskeag.....	837.08
commons	176.06
Derryfield park	289.00
South Manchester playground.....	20.66
city farm	1,018.25
printing and advertising.....	2.77
	<hr/>
	\$21,609.35

Passed January 2, 1899.

CITY OF MANCHESTER.

AN ORDER to print the Fifty-third Annual Report of the Receipts and Expenditures of the City of Manchester.

Ordered, That the committee on finance be and are hereby authorized to procure for the use of the inhabitants of said city the printing of the fifty-third annual report of the receipts and expenditures of the city of Manchester, including the reports of the joint standing com-

mittee on finance, the city auditor, the school board and superintendent of schools, superintendent of water-works, water commissioners, engineer of fire department, police commissioners, overseers of the poor, trustees, librarian and treasurer of the city library, committee on cemeteries, joint standing committee on city farm, city physician, city solicitor, city engineer, street and park commissioners, and such other matter relative to city affairs as said finance committee may direct; and also to procure the printing of the mayor's inaugural address of January 3, 1899; the expenses thereof to be charged to the appropriation for printing and stationery.

Passed February 14, 1899.

CITY OF MANCHESTER.

AN ORDER relating to Claims and Suits against the City.

Ordered, That the mayor and the city solicitor be authorized to dispose of suits against the city, now pending in court, or which may be entered in court during the ensuing two years, as they deem best, and that they be a special committee to consider claims against the city, with authority to settle such claims as they deem proper when the amount involved in such settlement does not exceed two hundred and fifty dollars (\$250).

Passed February 14, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER changing the Location of Electric Arc Lights.

Ordered, That the committee on lighting streets be and are hereby authorized and empowered to change the location of such electric arc lights as they may deem necessary to better light the streets of the city.

Passed March 7, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER authorizing the Committee on Setting Trees to expend Two Hundred Dollars (\$200) for Trees and Tree Boxes.

Ordered, That the committee on setting trees be authorized to expend two hundred dollars (\$200) for shade trees and tree boxes, the expense thereof to be charged to the appropriation for incidental expenses.

Passed March 14, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER relating to the Garbage Question.

Ordered. That the sum of three hundred dollars (\$300) be and the same is hereby placed at the disposal of the mayor to be used at his discretion to investigate the garbage question; the said sum of three hundred dollars (\$300) to be charged to the appropriation passed by the board of common council February 14, 1899, and approved by the mayor.

Passed March 14, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER relating to the Election of Officials in Ward No. 10.

Ordered. That a special election in ward No. 10 be held May 23, 1899, to fill such offices in said ward as required by an act passed by the legislature of 1899, entitled, "An act in amendment of an act in relation to the city of Manchester, Session Laws of 1878, chapter 163," and that the city clerk of the city of Manchester be instructed to notify the selectmen of said ward of such election, and this order to fill the same, by giving to them an attested copy of this order.

Passed April 4, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER relating to the Bonds of Certain Officials of the City of Manchester.

Ordered. That whereas it has been the custom of certain banks of the city of Manchester to furnish bonds of certain officials of the city of Manchester in return for the money in the custody of said officials being deposited in said banks; and whereas said banks do not now furnish said bonds; and whereas said city receives monthly interest on deposits of said officials; and whereas said interest amounts to more than the premium of said bonds; therefore, be it ordered as follows: That the mayor be and hereby is authorized and empowered to procure, at the expense of the city of Manchester, bonds required of certain city officials of the city of Manchester, namely, city treasurer, tax collector, city clerk, and city auditor, from such Fidelity Company as he shall approve; the expense thereof to be charged to the appropriation for incidental expenses.

Passed May 2, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing in Spruce street at Cypress street, and thence in a southerly direction in Cypress street to Auburn street, and thence in an easterly direction in Auburn street 300 feet; the expense thereof to be charged to the appropriation for new sewers.

Passed May 2, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and hereby are authorized to build a certain sewer, as follows:

Commencing in Massabesic street at the James Hall road, and thence in a southeasterly direction in Massabesic street to the Mammoth road, and thence in a northerly direction in the Mammoth road to Nelson street in said city; the expense thereof to be charged to the appropriation for new sewers.

Passed May 2, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER relating to the purchase of Horses for use in the Fire-Department.

Ordered, That the mayor and standing committee on fire department be authorized to purchase seven horses for use in the fire department; the expense thereof to be charged to the appropriation for fire department.

Passed May 9, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to repair Public Buildings.

Ordered, That the mayor and standing committee on lands and buildings be and are hereby authorized and empowered to make such necessary repairs in and upon the public buildings of said city as shall not exceed the sum of one thousand dollars (\$1,000); and that said sum of one thousand dollars be charged to the appropriation for repairs on public buildings.

Passed May 9, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at the manhole at the intersection of Elm east back street with the Central south back street; thence in a southerly direction in Elm east back street to Spruce street; thence in a westerly direction in Spruce street to Elm street; thence in a westerly direction in Elm street to Granite street; thence in a westerly direction in Granite street to west of Franklin street; the expense thereof to be charged to the appropriation for new sewers, or the repairs of sewers, or both.

Passed May 9, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build certain sewers, as follows:

Commencing at the manhole at the intersection of Jewett street with Young street, and thence in a westerly direction in Young street to Cypress street, and thence in a southerly direction in Cypress street 450 feet; the expense thereof to be charged to the appropriation for new sewers.

Passed May 9, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER relating to Band Concerts.

Ordered, That the mayor be and hereby is authorized and empowered to expend such sum or sums the present year for open air band concerts as shall not exceed the sum of three hundred dollars; and that said sum of three hundred dollars be charged to the appropriation for band concerts.

Passed May 9, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER in relation to the Decoration of Soldiers' Graves.

Ordered, That the Louis Bell Post No. 3, G. A. R., under the direction of the mayor, be authorized to decorate the soldiers' graves upon Memorial Day; and that the expense thereof be charged to the appropriation for decoration of soldiers' graves.

Passed May 9, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at the manhole in Beech street, north of Blodget street, and thence in a northerly direction to Sagamore street in Beech street; the expense thereof to be charged to the appropriation for new sewers.

Passed July 11, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER relating to the erection of a Fire-Alarm Box.

Ordered, That a fire-alarm box be erected at the corner of Lake avenue and Canton streets, the expense thereof to be charged to the appropriation for fire department.

Passed July 11, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to erect Three Electric Lights with proper fixtures for maintaining same.

Ordered, That the committee on lighting streets are hereby ordered to erect three lights, with proper fixtures for maintaining same, at the corner of North Adams and Clarke streets, Laurel north back street and Union street, and Cedar and Franklin streets.

Passed July 26, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Amory street and thence in a southerly direction in Columbus street 300 feet; the expense thereof to be charged to the appropriation for new sewers.

Passed July 26, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at the present terminus of the sewer in Second street (which is about 175 feet north of Frederick street); thence in a southerly direction to Frederick street, and thence in an easterly direction in Frederick street 175 feet; the expense thereof to be charged to the appropriation for new sewers.

Passed July 26, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Blaine street and thence in a southerly direction to Cleveland street in Second street, and thence in an easterly direction in Cleveland street to the Merrimack river; the expense thereof to be charged to the appropriation for new sewers.

Passed July 26, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Concord street and thence in a southerly direction in Ash east back street to the end of said back street; the expense thereof to be charged to the expense of new sewers.

Passed July 26, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Maple street and thence in an easterly direction to Oak street in Blodget street, and thence in a southerly direction in Oak street to Brook street; the expense thereof to be charged to the appropriation for new sewers.

Passed July 26, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Milford street and thence in a northwesterly direction to Avon street in Sylvester street; the expense thereof to be charged to the appropriation for new sewers.

Passed July 26, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to erect One Electric Light with proper fixtures for maintaining same.

Ordered, That the Board of Mayor and Aldermen concur that the committee on lighting streets are hereby authorized to cause to be erected one electric light, with proper fixtures for maintaining same, at the corner of Prospect and Beech streets.

Passed August 11, 1899, in Board of Mayor and Aldermen.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at the terminus of the present sewer in Pine east back street, between Amherst and Concord streets, and thence in a northerly direction to Concord street in Pine east back street, and thence in an easterly direction in Concord street to Union street; the expense thereof to be charged to the appropriation for new sewers.

Passed September 12, 1899.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Milford street and thence in a northerly direction to Mast street in William street; the expense thereof to be charged to the appropriation for new sewers.

Passed October 3, 1899.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Maple street and thence in an easterly direction in Harrison street to Oak street, meaning to lower and relay the present sewer; the expense thereof to be charged to the appropriation for new sewers, or to the repairs of sewers, or both.

Passed October 3, 1899.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Sagamore street, thence in a southerly direction in Russell street to a point 230 feet south of Blodget street; the expense thereof to be charged to the appropriation for new sewers.

Passed October 3, 1899.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Silver street and thence in a southerly direction in Pine street to Plummer street, and thence in an easterly direction in Plummer street to Union street; the expense thereof to be charged to the appropriation for new sewers.

Passed October 3, 1899.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Wilson street and thence in an easterly direction in Summer south back street to Hall street; the expense thereof to be charged to the appropriation for new sewers.

Passed October 3, 1899.

CITY OF MANCHESTER.

AN ORDER to build a Certain Sewer.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer, as follows:

Commencing at Belmont street, thence in an easterly direction in Bridge street to Beacon street, and thence in a southerly direction in Beacon street 200 feet; the expense thereof to be charged to the appropriation for new sewers.

Passed October 3, 1899.

CITY OF MANCHESTER.

AN ORDER to erect Two Gasoline Lights at Goffe's Falls.

Ordered, That committee on lighting streets be authorized to erect two gasoline lights with proper fixtures for maintaining same, locations to be designated by committee, at Goffe's Falls.

Passed October 3, 1899.

CITY OF MANCHESTER.

AN ORDER to erect Six Electric Lights with proper fixtures for maintaining same.

Ordered, That the committee on lighting streets are hereby authorized to erect six electric lights with proper fixtures for maintaining same at the following locations:

Corner Huntress and Prince streets.

Corner Hanover and Alfred streets.

Corner Sagamore and Russell streets.

Corner Old Falls road and Spruce street.

Corner Summer and Belmont streets.

Corner Mammoth road and Nelson street.

Passed November 21, 1899.

CITY OF MANCHESTER.

AN ORDER allowing the Inspector of Buildings the sum of One Hundred and Fifty Dollars per annum for Horse Hire.

Ordered, That the inspector of buildings, being compelled in the performance of his duties to cover the whole of the territory within the limits of the said city of Manchester, be allowed the sum of one hundred and fifty dollars (\$150) annually for horse hire.

Passed December 8, 1899.

CITY OF MANCHESTER.

AN ORDER relating to a Contract with the American Welsbach Street Lighting Company.

Ordered, That the mayor and the committee on lighting streets be and are hereby authorized to enter into a contract with the American Welsbach Street Lighting Company for sixty-five or more sixty-candle power Welsbach lights, the same to be in accordance with a report submitted this day to said board of mayor and aldermen by the committee on lighting streets.

Passed December 12, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE changing the Names of Certain Streets.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in said city be changed as follows: That the name of the street known as Gore street, beginning at Union street and continuing easterly, be changed to Blodgett street.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained February 14, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE changing the Names of Certain Streets.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in said city be changed as follows: West Milford street, running from the junction of Amherst road and Milford street to the Bedford town line, to Donald street.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained March 7, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE relating to an Inspector of Buildings.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. The board of mayor and aldermen shall, on the first Tuesday of February, 1899, and biennially thereafter, elect an inspector of buildings.

As soon as convenient after the passage of this ordinance, said board of mayor and aldermen shall fix the salary and elect an inspector of buildings, who shall continue in office until the first Tuesday of February, 1901, or until his successor is elected; removable, however, at the pleasure of the board of mayor and aldermen.

SECT. 2. The inspector of buildings shall be a competent person, and shall be an experienced architect, builder, or civil engineer, and shall not be interested directly or indirectly in any building contract, or in furnishing material for the same.

SECT. 3. The inspector of buildings may, from time to time, make such rules and regulations for the conduct of the office as shall be approved by the board of mayor and aldermen.

SECT. 4. This ordinance shall take effect upon its passage, and all ordinances and parts of ordinances inconsistent with this ordinance are hereby repealed.

Passed to be ordained May 16, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE changing the Names of Certain Streets.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in said city be changed as follows: That the name of the street known as Amherst south back street, running from Nutfield lane easterly to Pine street, be changed to Derryfield lane.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained September 5, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE changing the Names of Certain Streets.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in said city be changed as follows: That the name of the street known as Old Amherst road, from Mast street to Milford street, be changed to Rochelle avenue.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained September 5, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE changing the Names of Certain Streets.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in said city be changed as follows: Chestnut west back street, extending from Bridge street south to Lowell south back street on the north, to Bridge place; Elm east back street, extending from Bridge street north to Myrtle street, to North Church street.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained September 5, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE in amendment of Chapter 14 of the City Laws and Ordinances.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. The fire limits of the city of Manchester shall include all that part of the city bounded northerly by Harrison street, easterly by Pine street, southerly by Auburn street, and westerly by Elm west back street; also what is known as the "flatiron district" in McGregorville, bounded on the north by Amory street, southeast by McGregor street, and west by Main street.

It shall be the duty of said inspector to examine the condition of all buildings undergoing alterations or being erected within the city

limits, and to serve notice in writing upon the builders, owners, or architects of such structures as he deems to be unsafe or insecure, by reason of the mode or manner of construction or the material used in the construction thereof, and shall order such changes in the mode or manner of construction thereof and the materials used as he shall deem necessary for public safety.

The said inspector is hereby empowered to, and whenever in his judgment occasion may require shall, enter into and upon any existing building, any premises, staging, or other structure, for the purpose of examining the same in reference to its safety, and attending to the performance of his duties as required by law, and shall order the same altered to his reasonable acceptance at the expense of the owner thereof, or of the owner of the land upon which the same is located.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained October 3, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE changing the Names of Certain Streets.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in the city of Manchester be changed as follows: Elm west back street, from Auburn street to Spring street, to Hampshire lane; Manchester south back street, from Nutfield lane to Lincoln street, to Monadnock lane; Lowell south back street, from Nutfield lane to Union street, to Seneca lane; Hanover south back street, from Nutfield lane to Maple east back street, to Londonderry lane.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained October 31, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE in amendment of Sections 4, 8, 16, and 34 of Chapter 6 and Section 1 of Chapter 15 of the City Laws and Ordinances of the City of Manchester.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. Amend section 4, chapter 6 of the city Laws and Ordinances, in the third line of said section, by striking out in said line, after the word "of," the words "nine hundred," and inserting in place

thereof the words "thirteen hundred and fifty," and in the fourth line of said section, after the word "payments," by striking out the words "and all fees appertaining to his office," so that said section, as amended, shall read: "SECT. 4. The city clerk shall receive for his services, and all the duties connected with his office, the sum of thirteen hundred and fifty dollars per annum, to be paid in equal quarterly payments."

Amend section 8, chapter 6 of the city Laws and Ordinances, in the third line of said section, by striking out in said line, after the word "office," the words "twelve hundred," and inserting in place thereof the words "thirteen hundred and fifty," so that said section, as amended, shall read: "SECT. 8. The city treasurer shall receive in full for his services, and all the duties appertaining to his office, thirteen hundred and fifty dollars per annum, to be paid in equal quarterly payments."

Amend section 16 of chapter 6 of the city Laws and Ordinances by striking out the entire section and inserting in place thereof the following section: "SECT. 16. The collector of taxes of the city shall receive in full for his services for collecting all the taxes of each year, and for performing all the duties appertaining to his office, the sum of thirteen hundred and fifty dollars, payable in equal quarterly payments. His official year shall end on the first day of June, at which time he shall surrender to his successor in office all moneys, books, papers, including the list of uncollected taxes, and other property pertaining to his office. The deputy collector of taxes shall receive in full for his services the sum of eight hundred dollars, payable in equal quarterly payments."

Amend section 34 of chapter 6 of the city Laws and Ordinances in the second line of said section by striking out in said line, after the word "services," the word "twelve," and inserting in place thereof the words "thirteen hundred and fifty," so that said section, as amended, shall read: "SECT. 34. The civil engineer of the city shall receive in full for his services thirteen hundred and fifty dollars per annum, payable in quarterly payments."

Amend section 1 of chapter 15 of the city Laws and Ordinances, in the fifth line of said section, by striking out in said line, after the word "shall," the words "fix the salary and," and adding to said section the words, "He shall receive in full for his services, and for all the duties appertaining to his office, the sum of eight hundred dollars per annum, to be paid in equal monthly payments," so that said section, as amended, shall read: "SECTION 1. The board of mayor and aldermen shall, on the first Tuesday of February, 1899, and biennially thereafter, elect an inspector of buildings. As soon as convenient after the passage of this ordinance, said board of mayor and aldermen shall elect an inspector of buildings who shall continue in office until the first Tuesday of February, 1901, or until his successor is elected, removable, however, at the pleasure of the board of mayor and aldermen. He shall receive in full for his services, and for all the duties appertaining to his office, the sum of eight hundred dollars."

SECT. 2. This ordinance shall take effect and be in force as of the first Tuesday of January in the year one thousand eight hundred and ninety-nine, and all ordinances or parts of ordinances inconsistent with this ordinance are hereby repealed, and all ordinances in the hands of the committee on bills on second reading relating to city officials' salaries are hereby dismissed, the intent of this ordinance being to supersede all others.

Passed to be ordained November 7, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE changing the Names of Certain Streets.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in said city be changed as follows: That the highway now known as Ryderville road and Goffstown back road, beginning at the Goffstown road, so called, opposite the northerly terminus of Coolidge avenue produced, according to Amoskeag Company's plan, and extending in a northerly direction to a point on Front street, so called, about one hundred and fifty feet south of Black brook, so called, be changed to Omega street.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained December 12, 1899.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-NINE.

AN ORDINANCE relating to the Pay of Ward Officers at Special Elections holden in the City of Manchester in the Year of 1899.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That for the purpose of this ordinance sections 21 and 22 of chapter 6 of the city Laws and Ordinances, as amended December 1, 1896, be amended so that the moderators, clerks, selectmen, and ballot inspectors in wards Nos. 5, 6, and 8 shall receive for their services at the special elections holden in said wards during the present year in addition to their respective salary as such ward officer, the sum of five dollars; that the moderator, clerk, selectmen, and ballot inspectors in ward No. 10 shall receive for their services at the election holden in said ward May 23, 1899, in addition to their respective salary as such ward officer, the sum of ten dollars.

The intent of this ordinance being to pay all ward officers for services rendered at special elections holden in the several wards in the city of Manchester in the year of 1899.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained December 12, 1899.

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