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# SIXTY-EIGHTH ANNUAL REPORT

OF THE

## RECEIPTS AND EXPENDITURES

OF THE

# CITY OF MANCHESTER

NEW HAMPSHIRE

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1913

TOGETHER WITH

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



MANCHESTER, N. H.

PRINTED BY JOHN B. CLARKE CO



1914





# MANCHESTER CITY GOVERNMENT, 1913.

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## Mayor.

CHARLES C. HAYES.....Office, City Hall

Chosen at biennial election in November, 1912. Salary, \$3,000 per annum, payable monthly. (Act of June, 1848, section 1. Chapter 223, Laws of 1883. Chapter 203, Laws of 1907. Public Statutes, chapter 47.)

Mayor's Clerk and Stenographer.—Patrick H. Vaughan, 35 Hospital avenue.

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## Aldermen.

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|----------|--|
| Ward 1.  | Charles W. Richards, 47 Market street.   |
| Ward 2.  | Albert L. Clough, 181 Walnut street.     |
| Ward 3.  | John M. East, 421 East High street.      |
| Ward 4.  | William H. Morgan, 400 Merrimack street. |
| Ward 5.  | Richard J. Barry, 232 Lake avenue.       |
| Ward 6.  | Maurice Watson, 193 Massabesic street.   |
| Ward 7.  | Ralph S. Nelson, 94 Market street.       |
| Ward 8.  | Gustav F. Wenzel, 146 Second street.     |
| Ward 9.  | Nazaire E. Biron, 528 Main street.       |
| Ward 10. | Harry R. Bennett, 881 Somerville street. |

Salary \$3 per meeting, amount not to exceed \$200 annually.

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## Board of Common Council, 1913.

James M. Yuill, President, 83 Middle street.

### WARD 1.

- Charles W. Bailey, 51 Water street.  
Ory S. Conery, 81 Water street.  
Dana A. Emery, 1458 Elm street.

### WARD 2.

- Andrew S. Fantom, 676 Maple street.  
George L. King, 81 Appleton street.  
Tom W. Robinson, 783 Beech street.

## WARD 3.

John U. Bergquist, 13 Jane street.  
Charles F. McDonald, 53 Ash street.  
Louis P. Tremblay, 17 Malvern street.

## WARD 4.

Charles A. Allen, 585 Belmont street.  
Theophile B. Larivee, 12 Ash street.  
Ernest A. Merrill, 409 Merrimack street.

## WARD 5.

George D. Burns, 192 Green street.  
John F. Kane, 246 Grove street.  
Michael J. McNulty, 177 Green street.

## WARD 6.

Frank D. McLaughlin, 391 Beacon street.  
James McGuire, 373 Auburn street.  
John D. Woodbury, 345 Hosley street.

## WARD 7.

William E. Cowie, 94 Middle street.  
Philip English, 148 West Merrimack street.  
James M. Yuill, 93 Middle street.

## WARD 8.

John F. Donnelly, 36 Prince street.  
Fred Lange, 23 Boynton street.  
James Shea, 5 Bath street.

## WARD 9.

Eugene Bailly, 414 Kelley street.  
George Jacques, 320 Dubuque street.  
Treffle Raiche, 286 Coolidge avenue.

## WARD 10.

Leo Greaney, Jefferson street.  
Patrick H. L. O'Malley, 153 Belmont street.  
Edward J. Robitaille, 329 Harvard street.

**Clerk of Common Council.**

John A. Meade, 100 Bedford street.

Salary, \$100. (General Laws, chapter 46, section 7-9. City Laws and Ordinances, page 37, section 9; page 90, section 14.)

---

**City Clerk.**

Arthur W. Phinney.....Office, City Hall

Salary, \$2,000. (Laws, 1899, chapter 6.) Chosen in January, biennially, by board of aldermen. Residence, 370 Hanover street. Also clerk of all committees of the board of aldermen.

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**City Clerk's Clerks.**

Eva G. Jones.....City Clerk's Office, City Hall  
Malvina B. Levesque.....City Clerk's Office, City Hall

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**City Auditor.**

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

Salary, \$2,000. Appointed by mayor and approved by board of aldermen in January, biennially. (Laws of 1889, chapter 287. City Ordinances, pages 44, 71, 83-88, 173.) Residence River road north.

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**Auditor's Clerk.**

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

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**City Treasurer.**

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

Salary, \$2,000. Elected by board of aldermen in January, biennially. (Act of January, 1897, chapter 198.) Residence, 33 Walnut street.

**Treasurer's Clerk.**

Myrtie G. Lang.....Treasurer's Office, City Hall

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**Collector of Taxes.**

George E. Morrill\*.....Office, City Hall  
 Victor W. Roy.....Office, City Hall

Salary, \$2,000. 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.) Morrill's residence, 740 Chestnut street. Roy's residence, 104 Sagamore street.

\*Morrill's term expired June 1, 1913, and Victor W. Roy, who was elected in January, 1913, succeeded him.

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**Collector's Clerk.**

Mabel L. How.....Collector's Office, City Hall

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**Deputy Collector of Taxes.**

Edwin C. Paul.....Collector's Office, City Hall  
 Abraham S. Rich.....Collector's Office, City Hall  
 Denis Vigneault .....Collector's Office, City Hall

Salary, \$1,000. Appointed by tax collector with approval of mayor and aldermen. (City Laws and Ordinances, chapter 33, section 3.)

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**City Solicitor.**

Charles D. Barnard.....Office, Kennard

Salary, \$1,200. Elected by board of aldermen in January, biennially. (Act of 1897, chapter 198.) Residence,

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**City Messenger.**

James R. Ferson.....Office, City Hall

Salary, \$1,200. Elected by board of aldermen in January, biennially. (City Laws and Ordinances, chapters, 4, 6.)

**Board of Aldermen.\***

## STANDING COMMITTEES.

*Accounts.*—Aldermen Nelson, Richards, East.  
*Bills on Second Reading.*—Aldermen Clough, Barry, Nelson.  
*City Farm.*—Aldermen Barry, Biron, Morgan.  
*Claims.*—Aldermen Morgan, Nelson, Barry.  
*Cemeteries.*—Aldermen Clough, Watson, Morgan, Richards, Bennett.  
*Enrollment.*—Aldermen Biron, Richards, East.  
*Finance.*—The Mayor, Aldermen Morgan, East.  
*Fire Department.*—Aldermen Watson, Barry, Clough.  
*Lands and Buildings.*—Aldermen East, Watson, Wenzel.  
*Licenses.*—Aldermen Watson, Richards, Morgan.  
*Lighting Streets.*—Aldermen Clough, Barry, Bennett.  
*Military Affairs.*—Aldermen Bennett, Wenzel, Biron.  
*Public Health.*—Aldermen Watson, Clough, Biron.  
*Setting Trees.*—Aldermen Richards, Nelson, Bennett.  
*Sewers and Drains.*—Aldermen Wenzel, Biron, Bennett.  
*Streets.*—Aldermen Morgan, Wenzel, East.

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**Board of Common Council.\***

## STANDING COMMITTEES.

*No. 1. Central Department, Auditor's, Engineer's and Department of Taxes.*—Councilmen Robinson, Merrill, Tremblay, Burns, McGuire.  
*No. 2. Street and Sewer Department.*—Councilmen Fantom, Bergquist, Jacques, Conery, Kane.  
*No. 3. School Department.*—Councilmen Allen, Emery, Bergquist, Donnelly, Yuill.  
*No. 4. Fire Department and Hydrant Service.*—Councilmen Bailey, O'Malley, English, Lange, Bailly.  
*No. 5. Public Buildings and Public Places.*—Councilmen McDonald, Cowie, King, Robitaille, Woodbury.  
*No. 6. Health, Police Department, Public Library, Patriotic, Charitable and Philanthropic.*—Councilmen Raiche, Emery, Larivee, McLaughlin, McNulty.  
*No. 7. Lighting Streets.*—Councilmen Kane, Shea, Greaney, King, English.

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**Committee on Finance.**

President of the Common Council, chairman, *ex officio*, and Councilmen Robinson, Fantom, Allen, Bailey, McDonald, Raiche, Kane.

\*First named, Chairman.

## MANCHESTER CITY GOVERNMENT.

## Committee on Enrollment.

Councilmen Conery, O'Malley, Raiche.

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 City Physician.

William R. Lightbody.....Residence, 1470 Elm St.  
Office, 795 Elm St.

Salary, \$1,200. Elected by board of aldermen in January, biennially.  
(Act of 1897, chapter 198. City Ordinances, chapter 9, sections 29, 30.)

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 Engineer.

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

Salary, \$3,000. (Chosen by board of public works, April, 1911, term  
six years. (Chapter 359, Laws of 1911.)

## ENGINEER'S ASSISTANTS.

Harrie M. Young.

Henry A. Worthen.

George M. Wales.

Alfred T. Dodge.

Felix A. Lepage.

Lawrence O'Connor.

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 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. Tele-  
phone at office and at pumping station.

The Mayor, *ex officio*.

Charles H. Manning, chairman. Term expires January, 1919.

William Corey. Term expires January, 1917.

Edgar J. Knowlton. Term expires January, 1916.

Charles M. Floyd. Term expires January, 1914.

Perry H. Dow. Term expires January, 1915.

Robert E. McKean. Term expires January, 1918.

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 Clerk of Board of Water Commissioners.

Edgar J. Knowlton.....Office, Court House, Franklin Street

Chosen by Water Commissioners annually.

**Superintendent of Water-Works.**

James H. Mendell.....Office, Court House, Franklin Street

Salary, \$2,500. Chosen by Water Commissioners annually. Residence, 1019 Union street.

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**Engineer at Old Pumping Station.**

Jerome J. Lovering. Salary, \$700, rent, fuel, and use of land.

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**Engineer at New Pumping Station.**

C. A. Whitney, \$2.50 per day, rent, and fuel.

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**Justice of the Police Court.\***

Harry E. Loveren, 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.)

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**Associate Justice of the Police Court.\***

Frank C. Livingston. Salary, \$300 per annum.

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

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**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.)

\*Police court of Manchester abolished by act of legislature passed May 21, 1913, and District Police Court established by same act, comprising the city of Manchester and the town of Bedford. The term of office of the Police Justice, Associate Justice, and Clerk of Court, terminated July 1, 1913.

**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. Chapter 148, Laws of 1913.) Police station at the corner of Chestnut and Manchester streets.

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**Police Commissioners.†**

See chapter 202, Laws of 1893.

Thomas R. Varick, chairman. Term expires January, 1916.

Peter A. Farrell, clerk. Term expires January, 1914.

George A. Blanchet. Term expires January, 1918.

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**Police Commissioners.**

See chapter 148, Laws of 1913.

Frank W. Sargeant, chairman. Term expires September 1, 1914.

Frederick W. Shontell, clerk. Term expires September 1, 1915.

Almus W. Morse. Term expires September 1, 1916.

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**Chief of Police.**

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

Salary, \$3,000. Residence, 304 Central street. Telephone at house and office.

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**Deputy Chief of Police.**

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

Salary, \$1,800. Residence, 569 Hanover street.

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**Captain of the Watch.**

Thomas E. Steele. Salary, \$3.50 per day. Residence, 253 Walnut street.

†Term of Thomas R. Varick, Peter A. Farrell, and George A. Blanchett expired on the 31st day of August, 1913, by the provisions of chapter 148, Laws of 1913.



**Sergeants.**

Peter Callaghan. Salary, \$3.25 per day. Residence, 1017 Hayward street.

John T. O'Dowd. Salary, \$3.25 per day. Residence, 222 Bridge street.

John J. Lynch. Salary, \$3.25 per day. Residence, 1436 Elm street.

**Inspectors.**

Clifton B. Hildreth. Salary, \$3.25 per day. Residence, 386 Walnut street.

James J. Hampston. Salary, \$3.25 per day. Residence, 613 Summer street.

**Electrician.**

Edward H. McQuaid. Salary, \$3.25 per day. Residence, 412 Cedar street.

**Clerk and Stenographer.**

John F. Griffin. Salary, \$3.25 per day. Residence, 868 Union street.

**Patrolmen.**

Alder, Leonard J.  
 Badger, John C.  
 Bean, Randall W.  
 Benoit, Aurel N.  
 Brown, John G.  
 Brown, Thomas F.  
 Conlon, Arthur J.  
 Connor, John J.  
 Coolidge, Edgar L.  
 Corbett, Michael H.  
 Dunn, James F.  
 Dustin, Frank J.  
 Enright, Arthur F.  
 Filmore, William L.  
 Foye, William F.  
 Gauvin, Napoleon J.  
 Gorey, Joseph.

Graf, Oscar J.  
 Hackett, James.  
 Hadlock, Sherman J.  
 Healy, John D.  
 Jennings, Peter J.  
 Kenney, George H.  
 Lovejoy, George A.  
 Maher, William.  
 Manning, Thomas E.  
 Marden, Frank W.  
 Maynard, Andrew.  
 McGrath, Matthew F.  
 Moody, Dana H.  
 Moher, William M.  
 Moriarty, Mortimer J.  
 Moran, John F.  
 O'Leary, John D.

O'Malley, John F.	Shea, Jeffrey.
Pennett, John E.	Sheehy, Patrick.
Pittman, J. Foster	Smith, John F.
Potts, John.	Smith, Roswell J.
Riorden, George P.	Somers, Elmer E.
Robitaille, Albert C.	Stewart, William J.
Rourke, Martin W.	Sullivan, Florence.
Russell, Albert.	Sweeney, James.
Scannell, Frederick S.	Ware, Philip T.
Scannell, Walter B.	Welch, John T.
	Whalen, Michael J.

Salary, \$3.00 per day for regulars; \$2.75 and \$2.50 per day for special.

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#### Janitor of Station.

Frank P. Wiggin. Salary, \$2.00 per day. Residence, 435 Cedar street.

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#### Matron.

Miss A. B. Brown. Salary, \$425 per annum. Residence, 228 Merrimack street.

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#### School Committee.

Chosen at the biennial election in November, 1912; 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 purchase of free text-books and other supplies, and are limited by the appropriations of the city councils. The salary of the committee is \$25 each per year.

Charles C. Hayes, Mayor, *ex officio*, chairman.

James M. Yuill, president of Common Council, *ex officio*.

Ward 1. Patrick B. Maloney, 47 Water street.

Ward 2. Allan M. Wilson, 293 Myrtle street.

Ward 3. George M. Watson, 17 Oak street.

Ward 4. William A. Phinney, 450 Manchester street.

Ward 5. Francis J. Hurley, 263 Green street.

Ward 6. Joseph M. McDonough, 279 East Spruce street.

Ward 7. Edward B. Woodbury, 1 Pleasant street.

Ward 8. Frank A. Cadwell, 142 Douglas street.  
 Ward 9. Euclid Geoffrion, 474 Hevey street.  
 Ward 10. Maurice L. Bullard, 445 Brown avenue.  
 Edward B. Woodbury, vice-chairman of the board.  
 Charles H. Martel, clerk of the board.

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**Superintendent of Schools.**

Charles W. Bickford.....Office, City Hall

Elected by members of school board annually in month of June.  
 Salary, \$3,000.

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**Superintendent's Clerk.**

Fannie L. Sanborn.....Residence, 277 Laurel Street

Salary, \$600.

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**Truant Officer.**

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

Elected by members of school board annually in month of June.  
 Salary, \$1,200.

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**Assistant Truant Officer.**

Harry J. Woods.....Office, City Hall

Elected the same as truant officer. Salary, \$900.

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**Assessors.**

(Chapter 314, Laws of 1903.) Establishing a board of three assessors. Board elected by the common council in December, 1904, one member for two years, one member for four years, and one member for six years, from January 1, 1905. Thereafter biennially in the month of January, beginning in 1907, the common council shall elect one member for six years. Salary, \$1,500.

Joseph H. Geisel. Term expires January, 1917.  
 Joseph O. Tremblay. Term expires January, 1915.  
 William P. Farmer. Term expires January, 1919.  
 Joseph O. Tremblay, chairman.

## CLERKS OF ASSESSORS.

Arthur W. Rowell.....Office, City Hall  
 Harry J. Briggs.....Office, City Hall

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**Inspectors of Checklists.**

One in each ward chosen at the biennial election in November. Compensation, \$3.00 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. Karl A. Klaubert, 37 Water street.  
 Ward 2. Charles B. Tucker, 748 Pine street.  
 Ward 3. Arthur W. Rowell, 5 Nashua street.  
 Ward 4. Frank P. Collins, 418 Laurel street.  
 Ward 5. Daniel McCarthy, 29 Cedar street.  
 Ward 6. Edward J. Flanagan, 372 Auburn street.  
 Ward 7. Lyman H. Burbank, 12 Middle street.  
 Ward 8. Daniel A. McDonnell, 5 Parker avenue.  
 Ward 9. Albert Beaudet, 520 Hevey street.  
 Ward 10. Majorique J. Florand, 239 Clay street.  
 Charles B. Tucker, chairman.  
 Arthur W. Rowell, clerk.

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**Overseer of the Poor.**

Chosen at biennial election in November. Compensation, \$1,200 per annum and an allowance of \$150 for traveling expenses. (Laws of 1909, chapter 291.)

Joseph L. Boudreau.....Office, City Hall  
 Residence, 131 Orange Street

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**Overseer's Clerk.**

Juliette E. Melancon. Salary, \$600 per annum.

**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 term of three years. Salary, \$200 each per annum. Office, Court House, West Merrimack, corner of Franklin street.

William K. Robbins. Term expires first Monday in February, 1916.

John B. Cavanaugh. Term expires first Monday in February, 1914.

Gustave Lafontaine, M. D. Term expires first Monday in February, 1915.

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

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

Joseph X. Duval, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

Carl O. Seaman, plumbing and milk inspector. Office, Court House, Merrimack, corner of Franklin street.

M. Alma Fracker, office clerk.

Gustave Lafontaine, M. D., president.

William K. Robbins, clerk.

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**Fire Department.**

The chief engineer and four assistant engineers are chosen biennially in the month of January, by a majority of the city councils in convention. The salary of the chief engineer is \$2,200 per annum; the assistant engineers, each \$300 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 \$75 a year. The annual compensation of the members of the several hook and ladder, hose, steam fire engine and chemical companies is as follows: Permanent captains, each \$1,100 per annum; permanent engineers, each \$1,050; other permanent men of companies, \$1,000; lieutenants, each \$198; clerks, each \$198; call engineers, each \$213; all other members, each \$188; payable in semi-annual payments, on the first of January and July. (Laws of 1870, chapter 99. General Laws, chapter 106. City Ordinances, chapters 6 and 11.) 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.

**ASSISTANT ENGINEERS.**

Edwin W. Merrill.

John F. Seaward.

Arthur Provost.

Thomas F. Fitzsimmons.

Edwin W. Merrill, Clerk.

**Trustees of City Library.**

(Law 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, Elm, corner West North street. Term expires October 1, 1916.

Herman F. Straw, 607 Chestnut street. Term expires October 1, 1914.

Walter M. Parker, 1883 Elm street, corner of Webster. Term expires October 1, 1920.

Roger G. Sullivan, 168 Walnut street. Term expires October 1, 1919.

Henry W. Boutwell, 587 Union street. Term expires October 1, 1918.

William P. Farmer, Candia road. Term expires October 1, 1917.

Edwin F. Jones, 15 High street. Term expires October 1, 1915.

Edward C. Smith, *ex officio*.

Ernest A. Bournival, *ex officio*.

Edwin F. Jones, clerk.

**City Library.**

Franklin street, corner of Dean avenue. Open from 10 A. M. to 8 P. M. Saturdays to 9 P. M. Sundays, 11 A. M. to 5 P. M.

**Librarian.**

F. Mabel Winchell, 593 Union street. Salary, \$1,000 annually. Elected by the trustees of library.

**Board of Public Works.**

The board of public works is composed of three citizens of the city of Manchester. The mayor shall, by virtue of his office, be a member of and chairman of the board. Not more than two members can be of the same political party. In April, 1912, the board of aldermen shall elect a member of the board for the term of six years, and a member thereafter in the month of April in every sixth year. The member of the board of street and park commission whose term expires April, 1912, is made a member of the board until that date. In April, 1914, the board of aldermen shall elect a member of the board for the term of six years, and a member thereafter in the month of April in every sixth year. The member of the board of street and park commission whose term expires April, 1914, is made a member of the board until that date. The board shall elect a civil engineer and fix his compensation, as agent of said board, for a term of six years from the first Tuesday of April, 1911. Said board 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 1911, Chapter 359.) 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. on the third Tuesday of each month. Salary of each member, except the chairman, \$750 per year, payable monthly.

Charles C. Hayes, *ex officio*, chairman.

William McElroy. Term expires April, 1918.

Byron Worthen. Term expires April, 1914.

Samuel J. Lord, civil engineer and agent. Salary, \$3,000 per year.

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**City Weigher.**

Gilbert Lyons. Office, city scales, Franklin street.

Elected biennially in board of aldermen. Salary, \$600 per annum; all fees for weighing returned monthly to city treasurer with sworn statement.

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**Sealer of Weights and Measures.**

John E. Piller, 81 Parker street.

Elected biennially in January by board of aldermen. Salary, \$1,350 per year and \$150 per year for horse hire. (Section 25, chapter 43, 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. Subtrustees appointed by board of trustees.

J. Adam Graf, 827 Beech street. Term expires 1917.  
 William H. Maxwell, 940 Chestnut street. Term expires 1915.  
 Fred O. Parnell, 327 Orange street. Term expires 1914.  
 Charles F. Read, 48 Water street. Term expires 1914.  
 Frank C. Livingston, 321 Orange street. Term expires 1917.  
 Charles E. Stearns, 329 Front street. Term expires 1915.  
 Edwin F. Jones, 15 High street. Term expires 1916.  
 Harrie M. Young, 277 Concord street. Term expires 1916.  
 Fred L. Allen, clerk and treasurer, 567 Beech street.

**Subtrustees of Cemeteries.**

## VALLEY CEMETERY.

Alderman William H. Morgan, chairman; Alderman Bennett, Messrs. Frank C. Livingston, Charles F. Read, and Fred O. Parnell. Clerk, Frank C. Livingston.

## PINE GROVE CEMETERY.

Alderman Albert L. Clough, chairman; Alderman Watson, Messrs. J. Adam Graf, Harrie M. Young, and Edwin F. Jones. Clerk, Edwin F. Jones.

## AMOSKEAG CEMETERY.

Alderman Charles W. Richards, chairman; Messrs. Charles E. Stearns and William H. Maxwell. Clerk, William H. Maxwell.

## SUPERINTENDENT OF PINE GROVE CEMETERY.

John Erskine. Office and residence at the cemetery.

## SUPERINTENDENT OF VALLEY CEMETERY.

Eugene C. Smith. Office at the cemetery; residence, 272 Mast street.

## SUPERINTENDENT OF AMOSKEAG CEMETERY.

George C. Harwood. Residence, Amoskeag.

## TRUSTEES OF CEMETERY FUND.

Norwin S. Bean. Term expires January, 1920.  
 Charles H. Anderson. Term expires January, 1915.  
 Charles C. Hayes, *ex officio*.  
 Fred L. Allen, treasurer.



**Superintendent of Public Buildings and Inspector of Buildings.**

Created by chapter 284 of the Session Laws of 1911. Elected in the month of April by board of aldermen for a term of four years. Salary, \$2,000, and \$200 for traveling expenses.

Harry S. Foster.....Office, City Hall

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**Inspector's Clerk.**

Park J. Stewart.....Inspector's Office, City Hall

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**Inspector's Assistant.**

J. B. Lariviere.....Inspector's Office, City Hall

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**Inspectors of Oil.**

Harvey B. Sawyer, 149 Bowman street.

Martin Moll, 45 Barr street.

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

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**Board of Examiners of Plumbers.**

William K. Robbins, president. Term expires November 1, 1913.

Samuel J. Lord, clerk, *ex officio*.

Christian L. Wolf. Term expires November 1, 1914.

Appointed by mayor.

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**Sinking Fund Commissioners.**

William McElroy, chairman.

Fred L. Allen, clerk and treasurer.

Charles H. Manning.

**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.)

Salary, \$15.00, payable at expiration of term.

Chosen at biennial election in November.

- Ward 1. Fred W. Bond.
- Ward 2. William B. Burpee.
- Ward 3. George E. Prime.
- Ward 4. Frederick W. Shontell.
- Ward 5. Martin E. Sullivan.
- Ward 6. Almus W. Morse.
- Ward 7. Herbert E. Richardson.
- Ward 8. George W. Cheney.
- Ward 9. Charles C. Caron.
- Ward 10. Charles Robitaille.

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**Ward Clerks.**

Chosen at biennial election in November.

- Ward 1. Donald McIntyre.
- Ward 2. Frederic S. Nutting.
- Ward 3. Fred L. Richardson.
- Ward 4. Henry A. Worthen.
- Ward 5. William J. Lane.
- Ward 6. John J. Bresnahan.
- Ward 7. Charles E. Bartlett.
- Ward 8. Frank T. Gilhooly.
- Ward 9. Emile Beland.
- Ward 10. William E. Gilmore, Jr.

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**Selectmen.**

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

Salary, \$15.00, payable at expiration of term.

**WARD 1.**

Timothy L. Shine.

John P. Mullen.

Elmer H. Berglund.

## WARD 2.

Samuel W. Shephard.

James R. Mason.

Frank J. Abbott.

## WARD 3.

Claus E. Lagerquist.

William A. Ward.

Amedeé Beliveau.

## WARD 4.

Herman B. Neal.

Frederick N. Walker.

John W. Finn.

## WARD 5.

Patrick J. Ryan.

Richard H. Horan.

Peter J. Magan.

## WARD 6.

William Howe.

Carleton G. Stevens.

Arthur Allison.

## WARD 7.

John J. Carroll.

Webster Connell.

Matthew H. Whalley.

## WARD 8.

David J. Trahan.

William J. Hitschfeld.

John L. Barry.

## WARD 9.

Gaston Fredette.

Eugene Belisle.

Adam J. Bournival.

## WARD 10.

Frederick Poulin.

David Ramsey.

Patrick A. Moran.



**MAYOR'S INAUGURAL ADDRESS.**



## MAYOR'S INAUGURAL ADDRESS.

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*Gentlemen of the City Councils:*

Having been chosen by the citizens of Manchester as the officials upon whom will devolve the responsibility of conducting the business of the city for the ensuing two years, it becomes us as their representatives, in addition to the obligations which have just been administered to us, to pledge them our best thought and our best endeavor. Personally, I am very grateful to the people of Manchester for the very great honor which they have conferred on me, and I take this opportunity to express to them my heartfelt thanks, and assure them that the honor is duly appreciated by me.

Fully realizing the responsibilities, I assume the duties of this high position absolutely free and independent, free to do what in my judgment is for the best interests of the whole city, and independent of all combinations of whatsoever kind or nature.

In accordance with custom, it becomes my duty and my pleasure to address you concerning matters which, in all probability, will be brought to our attention. I am of the same opinion as many of my distinguished predecessors have been in regard to inaugural addresses, because, like them, it seems to me that the most appropriate time to talk about matters pertaining to city affairs, its needs, etc., is at the end of and not at the beginning of the two years' term. It stands to reason that all of us would be far better qualified to consider and recommend intelligently to our successors what, in our opinion, would be for the best, after an experience in dealing with the problems which confront every city government. I shall not at this time weary you with an attempt at a long address, but promise to be as brief as possible. Whenever, in my opinion, a special message on some particular subject is needed, it will be forthcoming. In this message to you, gentlemen, I shall deviate somewhat from the usual course. I shall be more general and not as specific as you might expect.

Happily in municipal and local affairs, the day has gone by when a public official can carry his partisan ideas to the extreme without meeting the disapproval and condemnation of his fellow citizens. The people will not stand for it. They are becoming more and more independent of party ties than ever before in the history of this country. They are looking more to the character, ability and standing of the men for whom they cast their ballots than to their party affiliations.

Politics is all right at certain times and in certain places, but should have no standing in the legitimate conduct of the city's business affairs. "Politics, whether local or national, is an obligation of the duty of citizenship. Some one must assume this duty. The one who assumes it, by choice of his fellow citizens, is bound to make clear his observance of duty in every particular. It is not a remunerative occupation, whatever its salary; that is the least controlling consideration; it is what the man in the representative place can do for those whom he represents in justice to the requirements of the whole." The public official who best serves his city and its people serves his party best.

Some years ago one of the most distinguished statesmen of his time and of the Nation made the statement that "Public office is a public trust." These words will live and influence men for generations to come and should sink deep into our minds, so that they may be forcibly impressed upon each and every one of who today takes upon himself the responsibilities and assumes the duties of the office to which he has been chosen by the citizens of Manchester.

Many of us are entering upon a new era in our lives, that of administering the business affairs of this municipality for the ensuing two years, and it should be our constant aim to so administer them that we may merit the approval of the people as a whole, without distinction as to the nationality, religious belief or party ties. We are here to serve, to the best of our ability, the good people of this city. We are here to give to Manchester the best that is in us. We are here to give to Manchester a clean, honest and business administration, free from graft or taint of every kind and description. Let no scandal darken any part of City Hall or any department connected therewith. The people expect right things of us. They ask for nothing more, they will accept nothing less.

A leading member of the National House of Representatives once said: "No man is fit to be the lawgiver for a mighty people who yields to the demands and solicitations of the few who have access to his ear and is forgetful of the vast multitude who may never hear his voice or look into his face." Let us ever bear in mind this principal as a guide in dealing with the large number who will solicit our aid and our votes for every official position which is in our power to bestow, and for every proposition which will be presented to us for our approval and our action. We must consider only the public welfare, only what is for the greatest good to the greatest number, and only what Manchester can afford without extravagance or waste.

All kinds of schemes will be put up to us as members of the city government, and will be followed by the most plausible arguments which human ingenuity can invent in an attempt to carry them through to a successful end, regardless of whether they are for the benefit of the people of the city or for the sole benefit of some selfish person or some selfish syndicate. It will be your duty and mine



carefully to investigate and scrutinize all such propositions as may be presented to us, in order that we may sift out the good for consideration and reject the bad without fear or favor.

This is an age of extravagance and fast living. We see it all around us in nation, state, city and town. Officials everywhere, high and low, are all the time devising new schemes for the expenditure of the people's money and then are at their wit's end to raise the necessary cash to pay the bills. It is a rare thing in these days to find one who has the courage to talk economy and demand a halt. I believe the time has come when economy should not only be talked but practiced. I am of the opinion that the people are ready for it. When I say they are ready for economy, I do not mean that they expect or want their business conducted in a niggardly way. This is an era of progress, and the municipality that desires to keep pace with the times must be progressive.

As officials of the City of Manchester we must face the rising and not the setting sun. We must not hesitate nor look backward. We must be liberal without being extravagant. We must practice economy without being stingy or small. Manchester is a large city and is still growing, and as a consequence its needs are necessarily large, its expenses heavy and constantly growing heavier. Manchester is a beautiful city. Her people are all proud of it, proud of its churches, schools, streets, public institutions and its great business enterprises. It is a prosperous city, and we must do nothing that will tend to retard its growth or lessen its prosperity. On the other hand it is our duty, as it should be our pleasure, to so conduct the business of the city as to help the business men already located here and to serve as an inducement for others to come.

## FINANCE.

Manchester financial standing and credit are all that could be wished for. It ranks high and must be kept so. The following is a statement of its indebtedness as of January 1, 1913:

Cemetery bonds .....	\$50,000.00
Water bonds .....	500,000.00
Municipal bonds .....	1,279,000.00
	<hr/>
Total bonded debt .....	\$1,829,000.00
Sinking fund with interest accumulations to Dec. 31, 1912	730,000.00
	<hr/>
Net debt .....	\$1,099,000.00
which is a splendid showing for a city as large as Manchester. There is also a floating debt, the amount of which is as follows.....	\$12,850.00

During the year 1913 there were and will be due bonds to the amount of \$300,000.00, as follows:

Improvement bonds due Jan. 1, 1913.....	\$100,000.00
Water bonds due Aug. 1, 1913.....	100,000.00
Water bonds due Nov. 1, 1913.....	100,000.00

The Improvement Bonds due January 1, 1913, were paid by funds provided for in the sinking fund. With the exception of about \$60,000.00 provided in the sinking fund, no provision has been made for the payment of the \$100,000.00 water bonds due August 1, 1913, or the \$100,000.00 water bonds due November 1, 1913. These bonds will have to be refunded. They are now paying four and one-half and five percent, and without doubt can be refunded at about three and one-half percent. The floating debt, amounting to \$12,850.00, will have to be provided for in the appropriation to be made for the current year. This comes as a legacy from the preceding administration, and was caused, as I am informed, by the fact that certain departments used up their appropriations, and then ran in debt, contrary to law and contrary to good business judgment, making it necessary to borrow the money, and the calling together the common council to vote extra appropriations to cover the amounts which the departments called for in addition to their regular appropriations. This is not as it should be. The different departments should make their estimates at the beginning of the year, and after the appropriations have been made no department should be allowed to exceed its allotted amount. When it reached the limit it should stop, and not create a debt to be passed on to the next year or to the succeeding administration. Every department ought to know, approximately, the amount of its needs in making estimates and for what purpose the money called for is to be used. In making the appropriations for the year ever bear in mind that a low tax rate with a fair valuation of the property to be taxed is one of the best advertisements that any city can have and is one of the best and strongest inducements to bring new business and new people. The people are overburdened by the high cost of living and it is our duty to help them bear their burden by not increasing their taxes. A change in the tax rate one way or the other does not matter so much to the wealthy as it does to the laboring class of people. The laboring man today has about all he can stand up under. He has to figure very carefully in order to make both ends meet, and if he owns a little home and has a family to support, any increase in his taxes becomes a hardship. All property should be assessed fairly and equitably. There should be no distinction between the rich and the poor, all should be taxed in the same proportion. Right here let me say a word in regard to exemption from taxation. I am in favor of exempting property when such exemption will bring a new business into Manchester, but not other-

wise. I am not in favor of exempting any property or business that has been located here for years when such property or business merely changes ownership. Whenever a party purchases an old established and prosperous business, or whenever anyone who has prospered and whose business has grown and expanded to such an extent as to call for additions to his plant, such a party ought to be willing to pay the taxes and not come before the city government asking for an exemption. I am emphatically opposed to all such exemptions, and should not hesitate to exercise the prerogative with which the mayor is vested and interpose a veto if occasion should require. Manchester is growing so rapidly that in all probability more money will be called for this present year and larger appropriations will of necessity have to be made than ever before, but there will be more property to be taxed. It will be our duty to see to it that the interests of the city and the taxpayers are safeguarded. The taxpayers and the people generally do not complain so much about the amount of money expended, as to how it is expended. They are anxious to get as near one hundred cents on every dollar spent as it is possible to do. Every official in the departments for which appropriations are made should feel the responsibility that rests upon him and consider himself bound by every sense of right and by the obligation he has assumed to expend the city's money as he would his own. It is an easy matter to spend the public funds when it costs the individual comparatively little and sometimes nothing.

In electing or appointing men to official positions of whatever kind or nature, caution and good judgment should be exercised in selecting the best from among the applicants. Manchester has already attained a prominent place among the larger cities of the country, and it will not satisfy the people if men of character and ability are not chosen to conduct their business. We cannot afford to take any chances. It is a good thing oftentimes to be able to say no. We must not lower the standing of the public service or the efficiency of those upon whom rests the responsibility of executing the laws or carrying out the will of the people. Let us look only to the public good and eliminate and forget all jealousies and petty politics. If I read the signs of the times right and am able to judge the temper of the people, they will submit to nothing less, but when opportunity presents itself will relegate to political oblivion all who betray their confidence or abuse the trust reposed in them.

#### HEALTH DEPARTMENT.

One of the most important departments of the city is that of the Board of Health. Upon the manner in which it conducts its business and the ability and efficiency it displays in meeting every emergency which may be caused by the outbreak of some contagious disease, the

pollution of the water supply or the adulteration of food or milk will depend in a great degree the health and safety of the entire community. It is a mistaken idea which many entertain that almost any one is competent to occupy a position on this board. This is not so. No man should or will be appointed by the present mayor as a member of this board unless he possesses sufficient ability and qualifications, so far as it is possible to ascertain them, for the reason that to jeopardize in any way the health and well-being of the people would be a crime. I understand that the Isolation Hospital is inadequate for the accommodations of as many patients as should be sent there and that more room will sometime be a necessity. I agree with my immediate predecessor that all patients who go to the Isolation Hospital and are able to pay should be compelled to pay.

A matter that will confront this or some future city government is the disposition of the garbage. I believe that Manchester will be obliged to follow the example set by many cities and adopt the method of disposing of the garbage by incineration. It seems to me to be the only proper and sensible way.

#### BOARD OF PUBLIC WORKS.

Two years ago the legislature of the state enacted a law creating the Board of Public Works to take the place of the so-called street and park commission, and making the mayor a member and chairman of the board. The law made it necessary that the board, consisting of the mayor and two others, should choose for a term of six years, an engineer, who should act as clerk of the board and its actual administrative officer.

I am of the opinion that only a very small percent of the people understand the mandatory nature and one-man power of this law. It makes it the duty of the engineer to have full charge of all tools, teams, yards, buildings, and equipment of all kinds, and clothes him with sole authority to employ or discharge men as he may deem expedient. I am not now criticising in any way the engineer who holds this position at the present time, but I do criticise the law and the system which gives so much power to one man. It gives to the engineer more power than the board itself possesses. It places a subordinate above those who elect him. The law should be amended to such an extent as to give the three members of the board more authority and some voice in the selection and in the discharging of its employes. As the law now stands one man might receive all the credit for work well done, while the board itself would certainly be censured for all mistakes. I have briefly called your attention to this subject in order that you, in particular, and the citizens in general, might fully understand the import of this law.

## FIRE DEPARTMENT.

A well regulated, well equipped and well manned fire department is one of the best assets that any city can possess. I believe Manchester has just such a department—not wholly perfect, by any means, but one of which its citizens are justly and rightfully proud. Its personnel is of the best, and I am of the opinion that no city, large or small, can boast of a better, cleaner or more efficient lot of firemen than ours. Let us at all times look carefully after their welfare and their interests. Some additions and changes may be necessary in the equipment. The flying squadron has proved to be one of the best investments that Manchester has ever made, and the time will come, and that not far in the future, when there should be one on the west side of the river for the better protection of property there. This department and the city are both deserving of congratulation.

## SCHOOL DEPARTMENT.

The importance of the public schools cannot be overestimated, because upon their efficiency the standard which is maintained by those who have their supervision in charge, and the proper education of the young, will depend largely the welfare and perpetuity of this nation. Manchester has good schools and ranks high as an educational center. With the population of the city increasing rapidly it becomes more and more a serious problem to properly accommodate the large number of pupils. Additional accommodations are needed at once in the Youngsville district and at South Manchester, and some provision for the same will be necessary in making the appropriations for the year. Gentlemen of the School Board, you are intrusted with very important duties. You should consider those duties as sacred, and not allow spite, personal feelings or political contentions to influence you in the proper discharge of those duties. Otherwise, as we have sometimes seen to our sorrow, the schools, the pupils, the citizens generally and the city will suffer. I am opposed to fencing or wiring off the grounds surrounding some of the schoolhouses, as has frequently been done, thereby preventing the scholars from having a place to run or play, except on the walks in the yard, or on the sidewalks. It restricts them in the exercise which they so much need. Rosy cheeks and bright eyes for the boys and girls are far preferable to a little green grass in the school yards.

## STREET, SEWER AND PARK DEPARTMENT.

In these days of modern methods of travel a community is judged largely by the condition in which its streets are kept. Good streets and good roads, well cared for, combine to attract the traveling public

to any place, and therefore are a good investment, not only in the larger number of people, but in an increased trade. Manchester has many good streets and some poor ones. I am well aware that it costs large sums of money to build and maintain our streets, but the people demand them. I believe with many of our best citizens and heavy taxpayers that there has not always been a judicious expenditure of the funds appropriated for street purposes. Let us endeavor in the coming years to make an earnest effort to remedy this and give to the people as nearly one hundred cents for every dollar expended as it is possible to do. Let our streets, and especially all the main thoroughfares leading to the surrounding towns, be in such good condition that the people of these towns, when coming to Manchester, will be glad when they have crossed the boundary line and are on Manchester soil.

The statements made concerning the building and up-keep of streets will apply with equal force to the question of sewers. Manchester is noted for its many beautiful shade trees, and it is to be regretted that more care has not been given them in the past. Too many of them have been cut down simply to satisfy the whim of some adjacent owner. No sound and thrifty shade tree in the streets of the residential parts of the city should be sacrificed except in a case of necessity, and then only with the sanction of the proper authorities.

Another subject which I wish to call to the attention of the citizens is that of good sidewalks. There are walks in Manchester which are a disgrace to the city, and many of them are around the buildings and lots of owners who are amply able to have good walks and keep them in good repair. I appeal to every loyal citizen of Manchester to have enough of civic pride to keep his walks in good condition. This being done, a great improvement would soon be manifest.

Manchester is highly favored above most cities in its large number of parks or commons. They are not only beauty spots but serve as breathing places for many thousands of her citizens.

The great Amoskeag Manufacturing company, through its generosity and its desire to help this city and promote its welfare, gave the greater part of these parks, which fact is and should be appreciated by all of our people.

Some years ago Mr. Michael Prout, late of this city, gave a tract of land in East Manchester to be used for a park and as a playground for children. The city has done nothing as yet to improve this tract of land. In justice to the memory of Mr. Prout, and in justice to the people of East Manchester, I recommend that some action be taken this season towards carrying out the wishes of this generous donor.

Flood the commons in winter, so far as it can be done, for the benefit and healthful pleasure of the many who desire a place where they can skate with safety.

The Police Department, the Water Department and that of the Overseer of the Poor do not seem to call for any special mention at this time, as they are apparently well cared for.

I recommend that the office of sealer of weights and measures be placed on a salary basis instead of the fee system as at present.

I earnestly urge upon all city officials and especially the heads of all departments which have the employment of men to give the preference to citizens of Manchester.

#### CONCLUSION.

In conclusion, gentlemen, always bear in mind that the business in which we are to engage for the coming two years is a serious matter, and I ask you to remember that you are the agents and servants of the people, placed here by their suffrages to conduct the public business in the interest of the whole people, and not in the interest of any one man, any set of men or any particular corporation: that you are to treat all fairly and give to all a square deal.

Be prompt in attending all meetings of the respective boards or committees of which you are members. Be diligent, watchful and loyal to Manchester.

We shall without doubt differ from each other many times as to what should be done, and the best manner in which it should be done, but let us give to each other the credit of being honest in our differences, if any such should arise.

Let us work together and coöperate harmoniously in an earnest endeavor to be of some good to our constituents, to promote to the best of our ability the interests and welfare of Manchester, to encourage business, to make the people happy, contented and prosperous, and to conduct an honest, economical and business administration; then will Manchester continue to be what it always has been, and should be, the best place on earth in which to live and do business.

CHARLES C. HAYES,

*Mayor.*





**REPORT OF THE CITY AUDITOR.**



## REPORT OF THE CITY AUDITOR.

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*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 1913, and a detailed statement of the expenses of each appropriation during the year.

Respectfully,  
 JAMES E. DODGE,  
*City Auditor.*

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### Report of the City Treasurer for the Year 1913.

DR.

Temporary loans in anticipation of taxes, 1913:

Manchester Savings Bank.....	\$75,000.00	
Merrimack River Savings Bank.....	50,000.00	
Trustees of Cemetery Fund.....	50,000.00	
Bond & Goodwin .....	150,000.00	
Old Colony Trust Co. ....	75,000.00	
Hillsborough Co. Savings Bank.....	25,000.00	
Amoskeag National Bank.....	25,000.00	
Amoskeag Savings Bank.....	25,000.00	
Manchester National Bank.....	25,000.00	
		\$500,000.00

Trustees of Sinking Fund:

City of Manchester 4% note, dated December 18, 1913, and payable December 18, 1914.....		\$16,900.00
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Trustees of Sinking Fund:

For the payment of Improvement Bonds maturing January 1, 1913.....	\$100,000.00	
For the payment of Water Bonds maturing August 1, 1913 .....	100,000.00	
		\$200,000.00

Sale of bonds:

Trustees of Cemetery Fund, Refunding Cemetery Bonds, dated July 1, 1913....	\$20,000.00	
Cemetery Bonds, 4%, dated October 1, 1913	6,700.00	

N. H. Fire Insurance Co., \$100,000 4%		
Bridge Bonds @ 99, dated July 1, 1913..	\$99,000.00	
Premium .....	10.00	
Accrued interest .....	377.77	
Street and Sewer Bonds, 4%, dated October 1, 1913, by popular subscription....	100,000.00	
E. H. Rollins & Sons, \$100,000 4% Refunding Water Bonds, dated November 1, 1913, @ 99.288 .....	99,288.00	
	<hr/>	\$325,375.77
A. W. Phinney, city clerk:		
Dog licenses .....	\$2,682.57	
Sewer licenses .....	2,737.85	
Rent of tenement .....	99.96	
Show licenses .....	770.82	
Rent of City Hall.....	3.00	
Junk dealers' licenses .....	273.50	
Job team licenses .....	51.50	
Employment bureau licenses .....	35.00	
Rent of City Farm.....	1,020.00	
Billiard, pool and bowling licenses.....	2,612.12	
Rent of Battery Building .....	240.00	
Bottle washing licenses .....	5.00	
Fees, intention of marriage.....	763.00	
mortgages .....	268.75	
conditional sales .....	97.75	
corporations .....	26.75	
miscellaneous records .....	83.00	
writs .....	3.00	
assignment of wages .....	11.80	
partnerships .....	2.00	
discharges .....	50.75	
	<hr/>	\$11,838.12
Police Department:		
M. J. Healy, fines and costs.....	\$1,462.86	
John C. Bickford, fees.....	1,723.50	
M. J. Driscoll, fees .....	93.96	
	<hr/>	\$3,280.32
Pine Grove Cemetery:		
J. H. Erskine, superintendent, care of lots	\$10,132.76	
F. L. Allen, treasurer, sale of lots.....	3,807.42	
	<hr/>	\$13,940.18
Merrill Cemetery:		
J. H. Erskine, superintendent, care of lots	\$51.00	
F. L. Allen, treasurer, sale of lots.....	26.10	
	<hr/>	\$77.10

## Valley Cemetery:

E. C. Smith, superintendent, care of lots..	\$1,935.00	
F. L. Allen, treasurer, sale of path.....	15.00	
		<hr/> \$1,950.00

## Amoskeag Cemetery:

Geo. C. Harwood, superintendent, care of lots.....		\$18.00
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## State of New Hampshire:

Insurance tax .....	\$4,800.75	
Railroad tax .....	56,355.25	
Savings bank tax .....	97,589.95	
Literary Fund .....	4,483.62	
		<hr/> \$163,229.57

## New Hampshire State License Commission:

Balance licenses, 1912.....	\$3,598.77	
Licenses, 1913 .....	51,931.93	
		<hr/> \$55,530.70

## City scales:

Gilbert Lyons .....		\$262.86
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## Board of Health:

Milk licenses .....	\$727.04	
Board of patients at Isolation Hospital..	440.50	
		<hr/> \$1,167.54

## Interest on bank deposits:

Merchants National Bank.....	\$3,376.35	
Geo. E. Morrill, collector.....	169.58	
Victor W. Roy, collector.....	480.70	
		<hr/> \$4,026.63

## School Department:

Charles W. Bickford, superintendent, for- feits, evening schools .....	\$157.36	
Sale of text-books .....	172.36	
Tuition .....	1,728.89	
		<hr/> \$2,058.61

## Board of Public Works:

Manchester Street Railway .....	\$17,778.80	
State of New Hampshire .....	8,237.32	
Miscellaneous .....	4,630.93	
		<hr/> \$30,647.05

## Miscellaneous receipts:

## Overdrafts—

Calvin R. Wood, incidental expenses....	\$3.50
American Seating Co., school department	13.26
Western Electric Co., fire-alarm tele- graph .....	157.83
Western Electric Co., telegraph.....	4.80
Children's Home, paupers off Farm.....	4.00

James A. Scully, incidental expenses...	\$17.48
Water Department, Amoskeag Cemetery	12.00
John Glayez, repairing public buildings	.50
	<hr/>
	\$213.37
H. S. Foster, superintendent of buildings—	
Sale of old iron, brass, etc.....	149.10
Francis M. Fogarty, clerk—	
U. S. Court of Appeals, adjustment of the City of Manchester & Landry case	6.10
Geo. E. Morrill, collector—	
Notices served on mortgagees.....	7.40
City solicitor, same being consideration given for a quitclaim deed, City of Manchester by its mayor to Celina Pied, dated May 26, 1913, the consid- eration being the amount of alleged taxes for years 1906-07-08-09-10-11-12, inclusive, and costs on property known as lots 667 Lincoln .....	10.98
American Steel & Wire Co., empty reels returned .....	632.00
Samuel J. Lord, plumbers' licenses.....	165.50
Thos. W. Lane, chief of Fire Department, sale of horse .....	60.00
sale of wire .....	5.00
John F. Stark, sale of land, West Man- chester .....	500.00
B. E. Thompson, cement work on Shep- ard lot, Valley Cemetery .....	50.00
New Eng. Tel. & Tel. Co., rebate on tel- ephone extension .....	1.00
Samuel J. Lord, rebate on telephone....	10.25
State of New Hampshire, forest fire bills	21.12
City solicitor, fees for fourteen mortga- gees' notices, the same being paid by the tax collector to the city solicitor	25.90
Insurance adjustment, on account of fire at City Hall, July 7, 1913—	
Fireman's .....	2.88
City of New York.....	2.88
Niagara 10547 .....	2.88
Sun 8590717 .....	2.88
Continental .....	1.73
Agricultural .....	.88
Boston .....	.87

W. M. Parker, treasurer, Suncook Valley R. R., dividend on 500 shares of railroad stock (1½% Jan. 1 and July 1, 1913...	\$1,500.00	
		\$3,372.72

Tax Department, Geo. E. Morrill, collector :		
Redemption of land sold for taxes, non- resident .....	\$85.16	
Redemption of land sold for taxes, resident	3,725.51	
Interest on taxes, 1912.....	2,413.83	
Costs on taxes, 1912.....	1,140.40	
Old taxes, 1905 .....	1.95	
Old taxes, 1905 .....	6.24	
Old taxes, 1906 .....	2.48	
Old taxes, 1907 .....	48.85	
Old taxes, 1908 .....	.94	
Old Taxes, 1909 .....	106.15	
Old taxes, 1910 .....	26.04	
Old taxes, 1911 .....	219.04	
Taxes, 1912 .....	87,256.61	
		\$95,033.20

Tax Department, Victor W. Roy, collector :		
Taxes, 1913 .....	\$974,500.00	
Costs on taxes, 1913 .....	1,587.20	
Interest on taxes, 1913 .....	296.80	
Redemption of lands sold for taxes.....	1,660.80	
		\$978,044.80

Water Department :		
J. H. Mendell, superintendent.....		\$164,798.26

Receipts for the year.....	\$2,571,551.43	
Cash on hand January 1, 1913.....	202,963.28	
Unpaid bills December 31, 1913.....	51,513.19	
		\$2,826,027.90

CR.

Total drafts for the year.....	\$2,488,514.73	
Unpaid bills January 1, 1913.....	63,182.86	
Cash on hand December 31, 1913.....	274,330.31	
		\$2,826,027.90

Respectfully submitted,  
FRED L. ALLEN,  
*City Treasurer.*

*To the City Council of the City of Manchester:*

GENTLEMEN:—I have examined the accounts of Fred L. Allen, city treasurer, for the year ending December 31, 1913, and find proper vouchers for all payments and all receipts duly accounted for.

The net cash on hand January 1, 1913, was.....	\$139,780.42
Receipts during the year.....	2,571,551.43
Total .....	<u>\$2,711,331.85</u>
Amount of drafts during the year.....	\$2,488,514.73
Net amount of cash on hand December 31, 1913.....	222,817.12
Total .....	<u>\$2,711,331.85</u>
Cash taken December 31, 1913, I find to be as follows:	
Deposited in Merchants National Bank, city.....	\$217,196.50
Deposited in Second National Bank, Boston.....	35,085.08
Deposited in office safe.....	22,048.73
Gross amount of cash on hand December 31, 1913...	\$274,330.31
Deduct amount of unpaid bills.....	51,513.19
Net amount of cash on hand December 31, 1913.....	<u>\$222,817.12</u>

JAMES E. DODGE,

*City Auditor.*

**STATEMENT OF THE RECEIPTS AND EXPENDITURES OF  
THE CITY OF MANCHESTER FOR THE YEAR 1913.**

RECEIPTS.

CENTRAL DEPARTMENT.

Received from:

Direct city taxes .....	\$1,062,168.30	
Cost and interest on taxes.....	5,464.79	
		<u>\$1,067,633.09</u>
Licenses to enter sewer .....	\$2,737.85	
keep dog .....	2,682.57	
sell milk .....	440.50	
keep billiard and pool tables .....	2,600.79	
lunch carts, etc.....	376.33	
shows and exhibitions .....	770.82	
Fees from city clerk .....	1,306.80	
Rents from city clerk .....	342.96	
		<u>\$11,258.62</u>



## SUNDRIES.

Received from:	
City scales .....	\$262.86
Tuition, free text-books and fines.....	2,058.61
Board of Health .....	727.04
Miscellaneous sources .....	290.80
Fees, city solicitor .....	25.90
Dividend, Suncook Railroad .....	1,500.00
	<hr/>
	\$4,865.21

## POLICE DEPARTMENT.

Received from:	
Costs and fines .....	\$3,280.32

## PUBLIC PLACES.

Received from:	
Amoskeag Cemetery .....	\$18.00
Merrill Cemetery .....	77.10
Valley Cemetery .....	2,000.00
Pine Grove Cemetery .....	13,940.18
	<hr/>
	\$16,035.28

## WATER-WORKS.

Gross receipts .....	\$164,798.26
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## CITY FARM.

Received for rent of city farm.....	\$1,020.00
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## LIQUOR LICENCES.

Received from state liquor commissioners for licenses..	\$55,530.70
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## MISCELLANEOUS.

Received from:	
Plumbers' licenses .....	\$165.50
Interest .....	4,000.07
Land redeemed from tax sale.....	5,471.47
Board of Public Works, sale of stone, pipe, etc., and for labor.....	30,647.98
Overdrafts .....	196.61
Sale of land .....	510.98
Reels sold, new fire-alarm.....	632.00
	<hr/>
	\$41,624.61

Total ordinary receipts during the year 1913.....	\$1,366,046.09
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## DEBT.

## Received from:

Sinking Fund commissioners .....	\$200,000.00	
Bonds sold .....	324,988.00	
Interest and premium on bonds.....	387.77	
Temporary notes .....	16,900.00	
		<u>\$542,275.77</u>

## TEMPORARY LOAN.

Received from loan in anticipation of tax of 1913.....	\$500,000.00
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## STATE.

## Received from:

Insurance taxes .....	\$4,800.75	
Railroad taxes .....	56,355.25	
Savings Bank taxes .....	97,589.95	
Literary Fund .....	4,483.62	
		<u>\$163,229.57</u>
Gross receipts .....	\$2,571,551.43	
Net cash on hand January 1, 1913.....	139,780.42	
		<u><u>\$2,711,331.85</u></u>

## EXPENDITURES.

## CENTRAL DEPARTMENT.

Interest on Water Bonds .....	\$21,482.50	
City Bonds .....	44,805.00	
Cemetery Bonds .....	3,235.00	
temporary loans .....	13,766.24	
		<u>\$83,288.74</u>
City Hall .....	\$4,288.94	
Printing and stationery .....	2,865.01	
Incidental expenses .....	9,368.13	
Mayor's incidentals .....	300.00	
City officers' salaries .....	29,914.38	
Auditor's Department .....	3,094.77	
Sinking Fund trustees .....	15,050.00	
Assessors' Department .....	12,400.00	
Building Department .....	5,096.94	
Land sold for taxes .....	4,668.44	
		<u>\$87,046.61</u>

## STREET AND SEWER DEPARTMENT.

Board of Public Works.....	\$11,028.30	
Snow and ice and cleaning streets.....	14,895.42	
Repairs of highways .....	51,956.58	
Street sweeping .....	10,649.97	
Watering streets .....	6,314.20	
Paving streets .....	22,879.97	
Macadamizing and new highways.....	77,499.77	
Grading for concrete .....	8,612.92	
Scavenger service .....	35,924.63	
Lighting streets .....	64,730.53	
Bridges .....	7,703.71	
City teams .....	22,963.26	
Repairs of sewers.....	9,369.91	
New sewers .....	26,941.20	
Browntail and gypsy moth.....	10,294.61	
Machine sweeping .....	2,730.13	
City yard .....	4,230.48	
Cutting and trimming trees.....	2,284.65	
Elm leaf beetle .....	3,692.08	
Oiling streets .....	14,182.42	
Head & Dowst purchase .....	7,569.80	
Kelley street bridge .....	11,275.68	
		<hr/>
		\$427,730.22

## ENGINEER'S DEPARTMENT.

Engineer's Department .....	\$11,001.46
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## HEALTH DEPARTMENT.

Health Department .....	\$21,473.61
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## SCHOOL DEPARTMENT.

Fuel .....	\$16,663.71
Furniture and supplies .....	1,954.36
Books and stationery .....	44.64
Printing and advertising .....	567.51
Contingent expenses .....	8,533.20
Care of schoolrooms .....	14,973.51
Care of school clocks .....	262.50
Evening schools .....	2,352.00
Evening school, mechanical drawing.....	203.66
Teachers' salaries .....	150,981.27
Free text-books .....	10,099.83

## ANNUAL OFFICIAL REPORT.

Manual training .....	\$394.80	
Piano, Maynard school .....	300.00	
Repair of school furniture.....	470.79	
Plans for vocational training school.....	225.00	
		<hr/>
		\$208,026.78

## CITY LIBRARY.

City Library .....		\$12,499.37
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## FIRE DEPARTMENT.

Fire Department .....	\$135,149.60	
Fire-alarm telegraph .....	8,117.09	
Hydrant service .....	23,525.00	
		<hr/>
		\$166,791.69

## POLICE DEPARTMENT.

Police station .....	\$3,076.57	
Police Court .....	1,677.32	
Police Commission .....	79,241.26	
		<hr/>
		\$83,995.15

## PUBLIC BUILDINGS.

New fire-alarm and building.....	\$78,488.09	
Repairs of public buildings.....	22,546.54	
Subway comfort .....	3,890.42	
New schoolhouses .....	391.52	
Board of examiners of plumbers.....	49.69	
Engine house, West Manchester.....	20,160.20	
Care of city clocks.....	97.25	
Addition to Youngsville schoolhouse.....	7,778.58	
		<hr/>
		\$133,402.29

## WATER-WORKS.

Water-Works .....	\$133,354.19	
Water-Works Sinking Fund.....	28,525.00	
		<hr/>
		\$161,879.19

## PUBLIC PLACES.

Commons .....	\$4,814.77	
Stark park .....	1,628.80	
Derryfield park .....	920.79	
Lafayette park .....	18.05	
Rock Rimmon park .....	939.06	
Prout park .....	665.31	

## STATEMENT OF RECEIPTS AND EXPENDITURES.

47

East Side park.....	\$20.46	
Miscellaneous playgrounds .....	1,565.51	
Merrill Cemetery .....	100.00	
Amoskeag Cemetery .....	292.50	
Valley Cemetery .....	5,022.76	
Pine Grove Cemetery .....	25,695.49	
		<u>\$41,683.50</u>

## CHARITABLE, PATRIOTIC AND PHILANTHROPIC.

Paupers off Farm .....	\$19,725.51	
Indigent soldiers .....	391.25	
Women's Aid Home .....	300.00	
Elliot Hospital .....	300.00	
Notre Dame de Lourdes Hospital.....	300.00	
Sacred Heart Hospital .....	300.00	
W. C. T. U. Mercy Home.....	300.00	
Infant Asylum ..	300.00	
St. Joseph's Orphanage .....	300.00	
Hospice St. Vincent de Paul.....	300.00	
Orphanut St. Pierre .....	300.00	
Animal Rescue League .....	300.00	
Boys' club .....	300.00	
St. John's Home .....	300.00	
Young Men's Christian Association.....	300.00	
St. Patrick's Girls' Home.....	300.00	
West Side Reading Room..	100.00	
District Nursing Association .....	300.00	
Settlement Association .....	300.00	
Notre Dame de Lourdes Girls' Orphanage..	300.00	
Decoration of soldiers' graves.....	500.00	
Militia .....	1,050.00	
Band concerts .....	300.00	
Celebration of Independence Day.....	592.00	
		<u>\$27,758.76</u>
Total of ordinary municipal expenditures.....		<u>\$1,466,577.37</u>

## TEMPORARY LOAN.

Temporary loan .....	\$475,000.00	
Temporary note .....	12,850.00	
		<u>\$487,850.00</u>

## BONDED DEBT.

School Bonds .....	\$20,000.00
City Bonds .....	105,000.00

Water Bonds .....	\$200,000.00	
Cemetery Bonds .....	20,000.00	
		\$345,000.00

## STATE AND COUNTY TAXES.

State tax .....	\$129,920.00	
County tax .....	59,167.36	
		\$189,087.36

Grand total of expenditures during the  
year ..... \$2,488,514.73

Cash on hand December 31, 1913.....	\$274,330.31	
Less unpaid bills .....	51,513.19	
		222,817.12

\$2,711,331.85

## Interest.

Appropriation .....	\$55,000.00	
Transferred from Water-Works account...	21,482.50	
Transferred from unappropriated money..	6,806.24	
		\$83,288.74

## EXPENDITURES.

Coupons on Cemetery Bonds .....	\$3,235.00	
City Funding Bonds .....	1,750.00	
Fire-Alarm Bonds .....	3,675.00	
Improvement Bonds .....	20,880.00	
Municipal Bonds .....	2,800.00	
Refunding Bonds .....	7,250.00	
Refunding Bridge Bonds.....	2,200.00	
School Bonds .....	6,250.00	
Water Bonds .....	21,482.50	
		\$69,522.50
Amoskeag National Bank, discount on note	\$576.74	
Amoskeag Savings Bank, discount on note..	576.74	
Bond & Goodwin, discount on notes.....	4,297.50	
Hillsborough County Savings Bank, discount on note .....	539.58	
Manchester National Bank, discount on note	576.74	
Manchester Savings Bank, discount on notes	2,164.59	
Merrimack River Savings Bank, discount on notes .....	1,327.07	

UNAPPROPRIATED MONEY.

49

Old Colony Trust Co., discounting notes...	\$1,939.18	
Trustees of Cemetery Fund, discount on notes .....	1,511.10	
Trustees of Sinking Fund, discount on notes	257.00	
		<u>\$13,766.24</u>
 Total expenditures .....		<u><u>\$83,288.74</u></u>

Payment of Funded Debt.

Appropriation .....	\$30,000.00	
Received from Sinking Fund trustees....	200,000.00	
Received from sale of Cemetery Bonds....	20,000.00	
Received from sale of Water Bonds.....	99,288.00	
Transferred from Water-Works account...	712.00	
		<u>\$350,000.00</u>

EXPENDITURES.

Cemetery Bonds .....	\$20,000.00	
Fire-Alarm Bonds .....	5,000.00	
Improvement Bonds .....	95,000.00	
Refunding Bridge Bonds .....	5,000.00	
School Bonds .....	20,000.00	
Water Bonds .....	200,000.00	
		<u>\$345,000.00</u>
 Total expenditures .....		<u>\$345,000.00</u>
Transferred to new account .....		<u>5,000.00</u>
		<u><u>\$350,000.00</u></u>

Sinking Fund.

Appropriation .....	\$15,050.00	
Trustees of Sinking Fund.....	\$15,050.00	

Unappropriated Money.

RECEIPTS.

Transferred from the following accounts:	
City Hall .....	\$711.06

Board of Public Works.....	\$2,727.20
Snow and ice and cleaning streets.....	1,104.58
Street sweeping .....	850.03
City teams .....	53.86
New sewers .....	16,929.06
Head & Dowst purchase .....	26.32
Machine sweeping .....	1,269.87
Miscellaneous playgrounds .....	834.49
Lafayette park .....	481.95
East Side park .....	29.54
Prout park .....	334.69
Lighting streets .....	769.47
Engineer's Department .....	8.79
Health Department .....	1,026.39
City Library .....	.63
Fire Department .....	329.90
Police Commission .....	3,751.06
Police court .....	1,022.68
Repairs of public buildings .....	28.46
Care of city clocks .....	102.75
Subway comfort .....	34.58
Pine Grove Cemetery .....	4.51
Valley Cemetery .....	27.24
Amoskeag Cemetery .....	107.50
Repair of school furniture.....	29.21
Printing and advertising .....	132.49
Books and stationery .....	5.36
Furniture and supplies .....	45.64
Care of rooms .....	26.49
Manual training .....	5.20
Evening school, mechanical drawing....	96.34
Evening schools .....	648.00
Teachers' salaries .....	5,543.73
Plans for vocational training school....	275.00
Addition to Youngsville schoolhouse....	221.42
Care of school clocks.....	87.50
Paupers off Farm .....	479.49
Indigent soldiers .....	108.75
Land sold for taxes .....	331.56
Band concerts .....	50.00
Celebration of Independence Day.....	8.00
Board of examiners of plumbers.....	.31

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\$40,661.10



## EXPENDITURES.

Transferred to the following accounts:

Interest .....	\$6,806.24	
Printing and stationery .....	165.01	
Incidental expenses .....	1,768.13	
City officers' salaries .....	1,914.38	
Building Department .....	96.94	
Macadamizing and new highways.....	4,999.77	
Repairs of sewers .....	1,369.91	
Cutting and trimming trees .....	784.65	
City yard .....	3,230.48	
Elm leaf beetle .....	1,192.08	
Browntail and gypsy moth.....	3,829.29	
Commons .....	1,814.77	
Stark park .....	151.57	
Derryfield park .....	420.79	
Fire-alarm telegraph .....	167.09	
Police station .....	76.57	
Fuel .....	663.71	
Contingent expenses .....	3,533.20	
Free text-books .....	99.83	
Free cash in treasury.....	7,576.69	
		\$40,661.10

## Temporary Loan.

## RECEIPTS.

Appropriation .....	\$12,850.00	
Amoskeag National Bank.....	25,000.00	
Amoskeag Savings Bank.....	25,000.00	
Bond & Goodwin .....	150,000.00	
Hillsborough County Savings Bank.....	25,000.00	
Manchester National Bank.....	25,000.00	
Manchester Savings Bank.....	75,000.00	
Merrimack River Savings Bank.....	50,000.00	
Old Colony Trust Co.....	75,000.00	
Sinking Fund Trustees.....	50,000.00	
		\$512,850.00

## EXPENDITURES.

Trustees of Sinking Fund.....	\$12,850.00	
Notes in anticipation of taxes.....	475,000.00	
		\$487,850.00
Total expenditures .....		\$487,850.00
Balance to new account .....		25,000.00
		\$512,850.00
		\$512,850.00

## City Hall.

Appropriation .....	\$5,000.00
	\$5,000.00

## EXPENDITURES.

## FUEL, LIGHTS, TELEPHONE, WATER.

L. B. Bodwell, coal.....	\$220.80	
J. H. DeCourcy Coal Co., wood.....	10.90	
W. E. Dunbar & Sons, wood.....	14.00	
Manchester Traction, Light & Power Co., electric lights .....	709.28	
Moore & Preston Coal Co., coal.....	667.16	
New England Telephone & Telegraph Co., service .....	19.60	
People's Gas Light Co., gas.....	14.19	
Water Commissioners, use of water.....	47.40	
		\$1,703.33

## CLEANING OFFICES, ETC.

Charles J. Beliveau, janitor.....	\$800.00	
Daniels-Cornell Co., soap.....	7.50	
Dustwax Manufacturing Co., "dustwax"...	6.25	
L. M. Folsom, cheese-cloth.....	13.22	
Gorman Brothers, soap .....	1.65	
Manchester Hardware Co., toilet paper, brooms, dusters .....	12.33	
Sarah Minton, cleaning .....	135.00	
Office Toilet Supply Co., toilet service.....	46.50	
Pike & Heald Co., 2 tin boxes.....	1.60	
John Roberts, assistant janitor.....	200.00	
Israel Smith, janitor .....	500.00	
Maria Tracy, cleaning .....	240.00	
John B. Varick Co., supplies.....	62.52	
West Disinfecting Co., disinfectant.....	42.50	
		\$2,069.07

## FURNITURE AND SUPPLIES.

The Barton Company, awnings and repairs	\$63.70	
John Barth, evergrips .....	1.25	
Consolidated Electric Lamp Co., lamps....	25.55	
C. A. Hoitt Co., baskets, table, chair, has- socks .....	14.80	
Manchester Coal & Ice Co., ice.....	4.56	
Manchester Traction, Light & Power Co., lamps .....	31.75	
Maxwell Ice Co., ice.....	12.90	
James A. Scully, shades, chairs, cuspidors, etc. ....	27.48	
John B. Varick Co., 1 flag.....	8.68	
		<u>\$190.67</u>

## INSURANCE PREMIUMS.

Wm. G. Berry .....	\$86.79	
George Blanchet .....	13.38	
Clough & Parker .....	13.38	
Dockham & Thorpe .....	44.58	
John A. Sheehan .....	100.43	
G. A. Vermille Insurance Agency.,.....	44.58	
		<u>\$303.14</u>

## INCIDENTAL REPAIRS.

Barton Company, repairing flag.....	\$0.30	
E. M. Bryant & Co., electric supplies and labor .....	6.25	
Finney Upholstering & Window Cleaning Co., caning chairs.....	4.25	
A. L. Franks & Co., repairing fan.....	1.45	
Harry A. Piper, repairing chairs.....	1.45	
Charles W. Powell, lumber and labor.....	1.19	
John H. Stevens, plunger.....	1.00	
		<u>\$15.89</u>

## SUNDRIES.

J. N. Brown, weighing coal.....	\$6.25	
J. G. Jones, freight and cartage.....	.59	
		<u>\$6.84</u>
Total expenditures .....		<u>\$4,288.94</u>
Transferred to unappropriated money.....		711.06
		<u>\$5,000.00</u>

## Printing and Stationery.

Appropriation .....	\$2,700.00	
Transferred from unappropriated money...	165.01	
		<u>\$2,865.01</u>

## EXPENDITURES.

## TAX COLLECTOR.

John B. Clarke Co., printing.....	\$156.00	
L'Avenir National, printing .....	4.25	
Temple & Farrington Co., 30,000 tax envelopes .....	82.32	
E. A. Stratton Co., printing.....	10.50	
		<u>\$253.07</u>

## CITY CLERK.

John B. Clarke Co., printing.....	\$157.25	
Kee Lox Manufacturing Co., typewriter ribbons .....	1.50	
Library Bureau, cards .....	23.23	
Ruemely Press, printing .....	13.75	
		<u>\$195.73</u>

## CITY TREASURER.

John B. Clarke Co., printing.....	\$5.50	
E. H. Chadbourne, P. M., stamps, cards, envelopes .....	50.00	
H. Dangel Co., checks lithographed.....	46.50	
E. A. Stratton Co., printing.....	7.50	
		<u>\$109.50</u>

## MAYOR.

Ruemely Press, letter heads.....	\$4.50
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## AUDITOR.

John B. Clarke Co., printing 400 reports...	\$1,865.71	
Temple & Farrington Co.:		
Cardboard and index .....	3.05	
Binding 130 reports .....	135.00	
J. Arthur Williams, printing billheads....	47.75	
		<u>\$2,051.51</u>

## CITY SOLICITOR.

John B. Clarke Co., printing envelopes and letter heads .....	\$9.50
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INCIDENTAL EXPENSES.

55

SEALER OF WEIGHTS AND MEASURES.

Ruemely Press, printing ..... \$45.95

CITY COUNCILS AND COMMITTEES.

Ruemely Press, printing .....	\$67.50	
Temple & Farrington Co., blanks, manuals, envelopes .....	127.75	
		\$195.25

Total expenditures .....		\$2,865.01
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Incidental Expenses.

Appropriation .....	\$7,600.00	
Transferred from unappropriated money..	1,768.13	
		\$9,368.13

EXPENDITURES.

BIRTHS AND DEATHS.

M. P. Badger, M. D.....	\$5.50
George L. Bastian, M. D.....	7.25
Ida B. Baker .....	.25
W. L. Biron, M. D.....	46.25
D. L. Black, M. D.....	.25
Frank Blaisdell, M. D., Goffstown, N. H....	.25
H. W. Boutwell, M. D.....	1.00
Anna Borkowska .....	.25
Marya Bozek .....	18.25
C. E. Butterfield, M. D., Suncook, N. H....	.25
I. L. Carpenter, M. D.....	3.25
Damase Caron, M. D.....	27.25
G. R. Cate .....	1.00
A. P. Cambadhis .....	1.25
J. A. Charest, Nashua, N. H.....	.25
Charles Chirug, M. D.....	2.75
Herman Christophe, M. D.....	12.00
C. O. Coburn, M. D.....	8.75
James M. Collity, M. D.....	9.50
P. W. F. Corning, M. D.....	2.25
W. T. Crosby, M. D.....	5.75
E. H. Currier, M. D.....	4.00
Charles L. Curtiss, M. D.....	7.00

Mary S. Danforth, M. D.....	\$4.50
George M. Davis, M. D.....	20.50
R. H. Dillon, M. D.....	4.50
Eugene B. Dunbar, M. D.....	8.00
John D. Ferguson, M. D.....	.75
George V. Fiske, M. D.....	5.75
C. F. Flanders, M. D.....	19.25
Charles A. Folsom, M. D.....	16.50
George S. Foster, M. D.....	6.00
John H. Gleason, M. D.....	3.75
Moise Guerin, M. D.....	43.50
N. E. Guillet, M. D.....	.75
Bertha C. Guild, M. D.....	.50
George B. Hoitt, M. D.....	7.00
John F. Holmes, M. D.....	15.75
Bertha Huot .....	.25
Ezra A. Jones, M. D.....	13.00
M. E. Kean, M. D.....	8.00
L. J. Lacasse, M. D.....	88.25
Gustave Lafontaine, M. D.....	15.75
Susan Laflamme .....	6.00
J. E. A. Lanouette, M. D.....	41.25
J. E. Larochele, M. D.. ..	36.75
Z. A. Lavoie, M. D.....	61.25
J. E. Lemaitre, M. D.....	3.25
W. R. Lightbody, M. D.....	1.50
W. H. Lyons, M. D.....	25.75
J. W. D. MacDonald, M. D.....	17.75
A. S. Mangurian, M. D.....	1.50
C. W. Milliken, M. D.....	.50
N. D. Michou, M. D.....	6.75
George B. Morey, M. D.....	.50
John T. Murray, M. D.....	4.00
Lillian B. Mahan, M. D.....	2.75
Emile D. Miville, M. D.....	2.75
John C. O'Connor, M. D.....	31.25
D. W. Parker, M. D.....	3.00
W. M. Parsons, M. D.....	.50
N. P. Papadopulus, M. D.....	.75
J. R. Pepin, M. D.....	9.00
Frederick Perkins, M. D.....	.25
Frank J. Pherson, M. D.....	6.25
Anna Pollmer .....	1.50
H. E. Patch .....	.25
E. B. Pollard .....	.25
Harry Press, M. D.....	.50

INCIDENTAL EXPENSES.

57

J. F. Robinson, M. D.....	\$4.25
F. N. Rogers, M. D.....	4.25
J. E. E. Roy, M. D.....	25.25
William Richardson, M. D.....	.25
Abraham Rich .....	2.00
F. P. Scribner, M. D.....	6.50
H L. Stickney, M. D.....	2.50
A. G. Straw, M. D.....	1.75
Zatae L. Straw, M. D.....	12.75
C. A. Sturtevant, M. D.....	5.75
C. B. Sturtevant, M. D.....	.50
Charlotte S. Smith, M. D.....	.25
Emil Sylvain, M. D.....	10.50
J. A. Taylor, M. D.....	19.50
W. A. Thompson, M. D.....	9.00
A. J. Todd, M. D.....	.50
M. H. Towle, M. D.....	6.00
E. C. Tremblay, M. D.....	10.00
Ellen A. Wallace, M. D.....	.50
George M. Watson, M. D.....	20.00
Maurice Watson, M. D.....	4.25
N. B. Webber, M. D.....	4.25
R. W. Weeks, M. D .....	5.75
Arthur F. Wheat, M. D.....	5.50
George C. Wilkins, M. D.....	11.50

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\$885.75

MARRIAGES.

Rev. G. A. Anderson.....	\$0.75
Rev. Claudius Byrne, Concord, N. H.....	.25
Rev. Ignatio Baboulis .....	.75
Rev. Henri Beaude .....	.75
M. S. Bennett .....	.25
H. L. Brickett, Marion, Mass.....	.25
Rev. J. J. Bradley.....	1.25
Rev. O. F. Bousquet.....	3.75
Thomas Chalmers .....	2.25
James Costakis .....	.25
Rev. J. A. Chevalier.....	18.50
Rev. N. L. Colby.....	19.75
Rev. Ora W. Craig.....	.75
Rev. Albert H. Clement.....	.25
Henry E. Chamberlen, Concord, N. H.....	.25
Rev. I. H. C. Davignon.....	23.75
Rev. James H. Dickson.....	1.25
Rev. L. J. Doucet.....	4.75
Arthur D. Dozois.....	.25

Rev. L. Dorais.....	\$7.00
Rev. F. E. Delzell, Exeter, N. H.....	.25
C. W. Dockham.....	.25
Rev. C. W. Dockrill.....	.25
Joseph M. Druker.....	.50
Rev. Robert J. Elliott.....	2.25
Rev. J. E. A. Evert.....	.25
Rev. M. R. Foshay.....	2.25
Rev. David Fraser .....	2.00
I. E. and W. H. Forbes.....	1.00
Mereric Guilbault .....	.50
A. Galatianos .....	1.25
Benjamin Gardner .....	.25
Rev. George R. Hazard.....	2.50
Arthur S. Healy.....	.25
Rev. Burton L. Hess.....	.25
W. M. Holman.....	.25
Rev. George E. Jewell.....	.25
Isadore A. Janelle.....	3.75
Rev. John Kamm .....	1.75
Rev. Louis M. Laplante.....	8.00
Rev. F. X. Leclair.....	5.50
Rev. I. B. Leclair.....	.25
Rev. B. W. Lockhart.....	1.00
Rev. F. X. Lyons.....	.50
Rev. John J. Lyons.....	6.00
G. A. Little.....	.75
B. J. Mack.....	.25
Rev. L. H. Martin.....	.25
John J. McAllister.....	3.00
Rev. James McGill .....	1.75
Rev. W. H. Morrison, Nashua, N. H.....	.50
Rev. Thomas M. O'Leary.....	9.25
Timothy F. O'Connor.....	.25
Anson G. Osgood.....	.25
Clinton S. Osgood.....	.25
Rev. E. J. Palisoul.....	.50
Rev. C. Pappagregorion.....	4.00
Rev. John B. Puchala.....	12.50
Arthur W. Phinney.....	1.75
Rev. F. Pebler .....	.50
Charles A. Perkins.....	.25
Rev. L. A. Ramsay.....	1.00
Rev. E. E. Reynolds.....	.50
Herman Rodelsperger .....	2.25
Rev. Samuel Russell .....	1.00



INCIDENTAL EXPENSES.

Rev. James W. Smith.....	\$2.25
Rev. A. Streletski .....	1.00
L. Szorc .....	8.50
Rev. G. B. Thomas.....	.50
Rev. M. Vellacoulis .....	3.25
Rev. A. F. Walsh.....	1.25
Rev. Leonard Walter .....	2.75
Rev. J. E. Wildey.....	.25
Rev. William Warren .....	1.75
Rev. Wm. Woods .....	1.00
Rev. R. T. Wolcott.....	.25
Rev. H. C. Whitcomb.....	1.00
Rev. John Zacharko.....	4.50
Rev. D. L. Duffy, Derry, N. H.....	.25
Rev. J. E. Dubois, Laconia, N. H.....	.25
Rev. John Everingham, Pembroke, N. H...	.25
Rev. George A. Foss, Atkinson, N. H.....	.25
Charles J. French, Concord, N. H.....	.25
Rev. J. B. Gilman, Nashua, N. H.....	.25
Rev. Edwin C. Goodwin, Goffstown, N. H...	.25
Rev. D. I. Gross, Nashua, N. H.....	.25
Rev. C. Harmandas, Nashua, N. H.....	.25
Rev. S. S. Huss, Nashua, N. H.....	.25
Rev. G. F. Marshall, Milford, N. H.....	.25
Rev. C. W. Martin, Derry, N. H.....	.25
Rev. Edward May, Auburn, N. H.....	.25
Thomas F. Moran, Nashua, N. H.....	.25
Rev. J. S. Pendleton, Bedford, N. H.....	.25
David W. Perkins.....	.25
Sven J. Peterson.....	.50
Rev. L. W. Phillips, Franklin, N. H.....	.25
Rev. F. L. Piper, Boston, Mass.....	.25
Albert T. Severance, Exeter, N. H.....	.25
Rev. A. W. Shaw, Goffstown, N. H.....	1.00
Hyman Shenberg, Boston, Mass.....	.25
Ernest Smith .....	.25
Rev. L. W. Swanson, New Boston, N. H....	.25
Rev. C. E. Stenman, Newport, N. H.....	.25
Leo Tyllo, Nashua, N. H.....	.75
Rev. H. B. Williams, Concord, N. H.....	.25
Rev. J. E. Werren, Cambridge, Mass.....	.50
Rev. A. H. Thompson, Raymond, N. H....	.25

\$206.25

DAMAGES AND JUDGMENTS.

Theodore Foster, damage to bicycle.....	\$5.00
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C. A. Hoitt Co., damage to merchandise, back flowage of sewer.....	\$118.80	
C. F. Nute, damage, back flowage of sewer	10.00	
Catherine O'Connor, land taken by city....	100.00	
Herminie Tousignant, injuries received by falling over embankment .....	260.00	
		\$493.80

## LEGAL EXPENSES.

Jones, Warren, Wilson & Manning, services, fire-alarm matter .....	\$778.68	
D. W. Perkins, preparing new charter....	200.00	
Calvin R. Wood, recording.....	6.28	
J. R. Worcester & Co., suggested revision of building code .....	50.00	
		\$1,034.96

## CITY COUNCILS AND COMMITTEES.

W. J. Freeman, use of automobiles.....	\$175.50	
A. L. Gadbois, use of automobiles.....	72.00	
Charles C. Hayes, carfares.....	1.95	
L'Avenir National, publishing ordinances, etc. ....	121.03	
Manchester Union Co., publishing ordi- nances .....	169.00	
Rapid Mailing Bureau, Inc., multi resolu- tions and stock.....	8.50	
Red Arrow Garage, use of automobile....	7.00	
Union-Leader Publishing Co., publishing "sale of bonds," etc.....	125.81	
		\$680.79

## CITY SCALES.

L. B. Bodwell, coal.....	\$9.25	
W. E. Dunbar & Sons, wood.....	2.00	
W. P. Goodman, stationery.....	1.50	
Maxwell Ice Co., wood.....	5.63	
Moore & Preston Coal Co., coal.....	8.25	
Temple & Farrington Co., books.....	18.00	
		\$44.63

## MAYOR.

N. J. Fontaine & Co., cleaning rug.....	\$1.25	
Ideal Stamp Co., 1 stamp.....	1.50	
W. P. Goodwin, books and stationery.....	34.80	
McGraw Publishing Co., 1 Electrical Direc- tory .....	5.00	

## INCIDENTAL EXPENSES.

61

New England Telephone & Telegraph Co., use of telephone, mayor's secretary.....	\$24.18	
Temple & Farrington Co., Session Laws....	6.75	
		<hr/> \$73.48

## TAX COLLECTOR.

American Express Co., charges on stamp..	\$1.25	
American Ribbon & Carbon Co., carbon paper .....	3.00	
F. H. Blackbird, pens.....	1.25	
John B. Clarke Co., advertising notice....	21.00	
E. H. Chadbourne, P. M., stamps and enve- lopes .....	356.50	
B. F. Cummins Co., repairing perforating machine .....	24.85	
Dodge & Dent Manufacturing Co., 1 dupli- cator .....	15.00	
George D. Fitts, stationery.....	2.05	
W. P. Goodman, books and stationery.....	8.55	
Independent Statesman, advertising non- resident tax list .....	7.88	
H. C. Jackson, 3 moisteners.....	1.25	
Library Bureau, filing outfit.....	70.00	
Novelty Company, 1 Fox typewriter, less discount and exchange .....	65.00	
Pike & Heald Co., making box.....	1.87	
Rapid Mailing Bureau, addressing tax bills	36.50	
Victor W. Roy, paid express on cabinet....	1.20	
Star Stamp Co., stamps and blanks.....	11.10	
Temple & Farrington Co., books.....	71.05	
C. H. Whittier, inkwells.....	2.00	
		<hr/> \$701.30

## CITY CLERK.

American Express Co., charges.....	\$1.70
American Ribbon & Carbon Co., ribbons...	7.00
Boston Badge Co., junk dealer badges....	22.70
E. H. Chadbourne, P. M., envelopes.....	32.24
John B. Clarke Co., printing and binding..	34.88
John B. Clarke Co., publishing ordinances	193.00
George S. Eddy, pencil pointer.....	6.00
E. C. Fessant, automatic clips.....	1.00
George D. Fitts, book and rubber bands....	3.00
C. S. Forsaith, looking up dogs licensed last year and not accounted for this.....	34.00
W. P. Goodman, books and stationery.....	34.20
Ideal Stamp Co., stamp and repairs.....	.95

Johnson's Bookstore, stationery and books	\$8.22
Library Bureau, cards.....	30.10
Macmillan Book Co., books.....	66.35
New England Telephone & Telegraph Co., tolls .....	5.41
Novelty Company, repairing typewriter....	.50
Rapid Mailing Bureau, Inc., work on type- writer .....	1.50
Remington Typewriter Co., type.....	.32
William Sutherland, Rand & McNally atlas	2.50
Temple & Farrington Co., blank book and cover .....	20.00
The Treworgy Ink & Pen Manufacturing Co., pens .....	1.25
Western Union Telegraph Co., clock rental	9.00

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 \$515.82

## CITY TREASURER.

Amoskeag National Bank, rent of safety deposit box .....	\$15.00
F. L. Allen, paid for postage stamps.....	18.54
American Bank Note Co., blank bonds.....	20.00
Boston & Maine Railroad, 1 50-ride ticket, Manchester and Boston, less cash from city clerk .....	26.95
Burroughs Adding Machine, paper and at- tention to machine .....	2.25
John B. Clarke Co., advertising bond sale..	41.70
E. H. Chadbourne, P. M., stamped envelopes	24.00
W. G. Chase, paper fastener .....	2.50
George D. Fitts, stationery and cabinet....	10.88
W. P. Goodman, stationery.....	30.17
Manchester Machine Works, repairing pen- cil sharpener .....	1.00
Manchester National Bank, rent of safe...	25.00
New England Telephone & Telegraph Co., tolls .....	19.99
Novelty Company, repairing typewriter....	1.00
Old Colony Trust Co., preparation and cer- tification of bonds .....	660.00
Pike & Heald Co., 6 trays.....	4.20
Francis Pratt, Jr., pens.....	3.00
A. J. Precourt, atomizer and formaldehyde	.85
Remington Typewriter Co., exchange of cylinder .....	1.20
E. A. Stratton Co., printing.....	12.50

INCIDENTAL EXPENSES.

63

G. W. Todd & Co., 1 protectograph.....	\$20.00	
Temple & Farrington Co., books and stationery .....	69.80	
Union-Leader Publishing Co., 1,000 two-cent stamps .....	20.00	
		<hr/> \$1,030.53

COURT HOUSE.

L. B. Bodwell, coal.....	\$425.45	
J. N. Brown, weighing coal.....	7.50	
W. E. Dunbar & Sons., wood.....	14.00	
Maxwell Ice Co., wood.....	3.50	
W. L. Miner, services as janitor.....	600.00	
Moore & Preston Coal Co., coal.....	260.21	
People's Gas Light Co., gas.....	99.11	
John B. Varick Co., ash can and lawn mower .....	13.20	
		<hr/> \$1,422.97

INSURANCE PREMIUMS.

W. G. Berry .....	\$7.50	
George Blanchet .....	7.50	
Clough & Parker .....	117.50	
John Dowst .....	5.00	
Everett & Bunton .....	7.50	
L. A. O'Connor .....	50.00	
Thomas D. Paris .....	50.00	
Putnam & Laflamme .....	54.00	
John A. Sheehan .....	7.50	
		<hr/> \$306.50

FOWLS KILLED BY DOGS.

William Burns .....	\$15.00	
L. Isenberg .....	21.50	
Frances S. Hall .....	7.00	
Mrs. G. D. Sanborn.....	4.00	
Thomas J. Welch .....	3.00	
		<hr/> \$50.50

SUNDRIES.

American Express Co., express on reports..	\$8.95	
F. L. Allen, balance on 50-ride ticket to Boston .....	4.45	
F. L. Allen, expenses to Boston, sundry times .....	10.75	
American Decorating Co., decoration of City Hall for grangers .....	25.00	
Charles Boisclair, carrying ballots, 1911...	2.00	

C. A. Bailey, curbing used on changing grade of street.....	\$57.20
E. G. Davis, services in Hammon investigation .....	10.00
George D. Fitts, 1 N. H. Register.....	.25
Mrs. Albena Fraser, decorating City Hall, Columbus Day .....	35.00
Frank French, portraits of Eugene E. Reed and Edward C. Smith.....	60.00
Charles D. Barnard, car fares and expenses, sundry times and places.....	46.63
W. P. Goodman, stationery, city sealer....	.95
W. & L. E. Gurley, supplies, city sealer....	5.98
Hobbs & Warren, sealer's record.....	2.50
A. P. Horne & Co., hedge plants.....	50.00
Ideal Stamp Co., newsboys' badges.....	10.00
B. C. Lancy, amount due on lot, Conant street, bought for taxes.....	87.44
John J. McAllister, Jr., cash paid for express, and expenses to Concord, N. H....	2.17
Manchester Traction, Light & Power Co.:	
Lights, Ward 2 wardroom.....	17.67
Lights, Ward 4 wardroom.....	39.00
Lights, Ward 8 wardroom.....	11.00
Lights, Ward 10 wardroom.....	14.73
William H. Morgan, expenses of self and H. S. Foster to Boston, consultation regarding building code .....	9.00
New England Telephone & Telegraph Co., tolls, auditor .....	.25
Arthur W. Phinney, return of 339 births and names of children, not previously reported by physicians .....	84.75
Michael J. Riley, abatement of costs of sale of land for non-payment of 1911 taxes...	4.00
State of New Hampshire, engrossing house bills .....	24.75
John A. Sheehan, premium on city officials' bonds .....	978.50
Town of Goffstown, taxes.....	5.49
Carl B. Thurber, forest fire bill.....	117.00
Charles A. Whitney, cow and calf bitten by mad dog .....	150.00
Water Commissioners, use of water:	
Ward 5 wardroom .....	9.76

CITY OFFICERS' SALARIES.

65

City Farm .....	\$18.20	
		<u>\$1,903.37</u>
Total expenditures .....		\$9,350.65
Overdraft .....		17.48
		<u>\$9,368.13</u>

City Officers' Salaries.

Appropriation .....	\$28,000.00	
Transferred from unappropriated money...	1,914.38	
		<u>\$29,914.38</u>

EXPENDITURES.

CENTRAL DEPARTMENT.

Charles C. Hayes, mayor.....	\$3,000.00
Fred L. Allen, city treasurer.....	2,000.00
Arthur W. Phinney, city clerk.....	2,000.00
George E. Morrill, tax collector.....	833.33
Victor W. Roy, tax collector.....	1,166.67
Edwin C. Paul, deputy collector.....	1,000.00
A. S. Rich, deputy collector.....	1,000.00
Denis Vigneault, deputy collector.....	1,000.00
James R. Ferson, city messenger.....	1,200.00
Charles D. Barnard, city solicitor.....	1,175.00
Oscar F. Moreau, city solicitor.....	25.00
John C. O'Connor, acting city physician...	25.00
Wm. R. Lightbody, city physician.....	1,175.00
Gilbert Lyons, city weigher.....	600.00
Michael Griffin, acting weigher.....	19.20
John E. Piller, sealer of weights and meas- ures .....	1,097.12
William Moher, Jr., bathhouse caretaker...	150.00
John J. McAllister, Jr., mayor's secretary..	20.83
Patrick F. Vaughan, mayor's secretary....	979.17
Albro P. Reed, clerk common council.....	12.00
John A. Meade, clerk common council.....	88.00
Mabel L. How, clerk for tax collector.....	842.50
Myrtie G. Lang, clerk for treasurer.....	500.00
Florence H. James, clerk for treasurer....	100.00
Eva G. Jones, clerk for city clerk.....	900.00
Malvina Levesque, clerk for city clerk....	675.00

Rose A. Kennedy, clerk for city clerk.....	\$211.00	
Bertha Hoffman, clerical services, tax collector .....	36.00	
Nellie McIntire, clerical services, tax collector .....	36.00	
Mattie McCreedy, clerical services, tax collector .....	36.00	
Ina Morrill, clerical services, tax collector..	11.25	
Eva Roy, clerical services, tax collector....	57.23	
Agnes Roy, clerical services, tax collector..	93.75	
Yvonne Trudeau, clerical services, tax collector .....	6.00	
		\$22,071.05

## SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

Charles W. Bickford, school superintendent	\$3,000.00	
Curtis W. Davis, truant officer.....	1,272.50	
Harry J. Woods, assistant truant officer...	1,045.83	
James M. Yuill, president of common council, <i>ex officio</i> .....	25.00	
Patrick B. Maloney, Ward 1.....	25.00	
Allan M. Wilson, Ward 2.....	25.00	
George M. Watson, Ward 3.....	25.00	
William A. Phinney, Ward 4.....	25.00	
Francis J. Hurley, Ward 5.....	25.00	
Joseph M. McDonough, Ward 6.....	25.00	
Edward B. Woodbury, Ward 7.....	25.00	
Frank A. Cadwell, Ward 8.....	25.00	
Euclide F. Geoffrion, Ward 9.....	25.00	
Maurice L. Bullard, Ward 10.....	25.00	
Charles H. Martel, clerk.....	250.00	
		\$5,843.33

## BOARD OF ALDERMEN.

Charles W. Richards, Ward 1.....	\$200.00	
Albert L. Clough, Ward 2.....	200.00	
John M. East, Ward 3.....	200.00	
William H. Morgan, Ward 4.....	200.00	
Richard J. Barry, Ward 5.....	200.00	
Maurice Watson, Ward 6.....	200.00	
Ralph S. Nelson, Ward 7.....	200.00	
Gustav F. Wenzel, Ward 8.....	200.00	
Nazaire E. Biron, Ward 9.....	200.00	
Harry R. Bennette, Ward 10.....	200.00	
		\$2,000.00

Total expenditures .....	\$29,914.38
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## Assessors' Department.

Appropriation .....	\$12,400.00
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## EXPENDITURES.

## SALARIES OF BOARD.

Joseph O. Tremblay, chairman.....	\$2,000.00	
William P. Farmer .....	2,000.00	
Joseph H. Geisel .....	1,833.33	
		<hr/>
		\$5,833.33
Arthur W. Rowell, clerk of board.....		\$1,400.00
Harry J. Briggs, engineer.....		\$1,095.50

## CLERICAL SERVICES.

Ernest Anctil .....	\$52.00	
Irma Artz .....	16.41	
Edith Berwin .....	192.44	
Charles W. Brown.....	201.75	
Mary J. Burke.....	182.01	
Charles Caron .....	27.50	
Robert Carr .....	35.00	
Jules Chapdelaine .....	1.95	
Frank P. Collins.....	107.25	
Agnes Connors .....	80.00	
Wladyslaw Chernieski .....	35.00	
Frank Curtis .....	16.50	
Ludger Dancose .....	30.00	
Bessie Geisel .....	48.13	
Bertha Hoffman .....	176.13	
Rose A. Kennedy.....	322.57	
Thomas McDerby .....	31.25	
John Montplaisir, Jr.....	184.25	
John Montplaisir .....	41.25	
Dennis A. Murphy.....	31.25	
W. J. Murphy.....	55.50	
Jean B. Rejimbald.....	36.25	
Abraham Rich .....	32.50	
Tom W. Robinson .....	168.00	
Andrew Schrieker .....	30.00	
Ann Splane .....	33.88	
Leroy M. Streeter.....	57.00	
George Taylor .....	51.00	
C. C. Tinkham.....	35.75	
C. D. Trudel.....	38.50	
Nicholas Tsemanis .....	42.50	
		<hr/>
		\$2,393.52

## TRANSPORTATION.

Leo A. Cavanaugh.....	\$38.00	
W. J. Freeman.....	29.00	
A. L. Gadbois.....	56.50	
L. S. Knowlton.....	49.50	
Howard L. Lamprey.....	5.00	
James W. Richards .....	76.00	
L. M. Streeter.....	13.00	
Smith-Ramsey Automobile Co.....	3.00	
George Taylor .....	12.00	
Louis Vogel .....	13.50	
		\$295.50

## SUPPLIES, ETC.

Carl W. Anderson & Co., ink.....	\$2.00	
John B. Clarke Co., printing and advertising	68.41	
E. H. Chadbourne, P. M., stamps and envelopes .....	170.60	
George D. Fitts, stationery.....	17.10	
W. P. Goodman, books and stationery.....	46.30	
L'Avenir National, printing and advertising	76.15	
Library Bureau, 1 steel case.....	227.00	
Library Bureau, repairs.....	4.50	
Leader Publishing Co., publishing notice..	65.00	
Manchester Coal & Ice Co., ice.....	3.78	
Manchester Union Co., publishing notice...	60.48	
J. J. Moreau & Son, supplies.....	22.58	
New England Telephone & Telegraph Co., tolls .....	14.13	
Novelty Company, cleaning and repairing typewriter .....	12.25	
Office Toilet Supply Co., toilet service.....	13.00	
Star Stamp Co., envelopes and letter heads, cards .....	109.00	
Thomas Smith, making file box.....	15.52	
Temple & Farrington Co., books and stationery .....	163.55	
J. O. Tremblay, cash paid: Car fares, postage, expenses, sundry cities, etc.....	254.64	
John B. Varick Co., supplies.....	31.16	
C. H. Whittier, inkwells.....	5.00	
		\$1,382.15
Total expenditures.....		\$12,400.00

**Building Department.**

Appropriation .....	\$5,000.00	
Transferred from unappropriated money...	96.94	
		<u>\$5,096.94</u>

EXPENDITURES.

SERVICES.

Harry S. Foster, superintendent of public buildings, salary and team allowance...	\$2,199.96	
J. B. Lariviere, services as inspector.....	1,252.00	
Park J. Stewart, clerical services.....	1,125.75	
		<u>\$4,577.71</u>

SUPPLIES, ETC.

H. S. Foster, paid express on blocks.....	\$1.23	
George D. Fitts, supplies.....	18.60	
W. P. Goodman, books and stationery.....	9.20	
H. W. Hayward, testing cement blocks....	5.00	
Library Bureau, desk, case and supplies...	175.00	
New England Telephone & Telegraph Co., tolls .....	14.40	
Novelty Company, typewriter ribbons.....	1.50	
Paige, Myrick & Co., repairing badge.....	1.00	
Ruemely Press, printing slips, and 500 copies building code .....	252.50	
Peter J. Thornton, 1 regulator.....	21.50	
Temple & Farrington Co., stationery.....	1.80	
J. Arthur Williams, printing.....	17.50	
		<u>\$519.23</u>

Total expenditures.....		<u>\$5,096.94</u>
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**Auditor's Department.**

Balance from last year unexpended.....	\$426.71	
Appropriation .....	3,100.00	
		<u>\$3,526.71</u>

EXPENDITURES.

LABOR.

James E. Dodge, salary as auditor.....	\$2,000.00	
Lizzie M. Cogswell, services as clerk.....	936.00	
		<u>\$2,936.00</u>

## OFFICE SUPPLIES.

Carter's Ink Co., carbon paper.....	\$3.00	
L. M. Cogswell, cash paid:		
Laundry and supplies.....	20.62	
James E. Dodge, cash paid for express and pens .....	4.60	
George D. Fitts, stationery.....	7.00	
W. P. Goodman, books and stationery....	5.35	
Hammond Typewriter Co., 1 ribbon.....	.75	
Kee Lox Manufacturing Co., paper.....	12.15	
Macmillan Book Co., paper.....	2.63	
Municipal Journal, subscription to December 1, 1914.....	6.00	
Remington Typewriter Co., 1 No. 8 machine	93.40	
John B. Varick Co., paper and twine.....	3.27	
		<u>\$158.77</u>
Total expenditures.....	\$3,094.77	
Balance to new account.....	431.94	
		<u><u>\$3,526.71</u></u>

## Mayor's Incidentals.

Appropriation .....	\$300.00
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## EXPENDITURES.

Charles C. Hayes.....	\$300.00
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## Board of Public Works.

Appropriation .....	\$13,700.00	
Received for supplies sold.....	55.50	
		<u>\$13,755.50</u>

## EXPENDITURES.

## SALARIES.

William McElroy, member of board.....	\$750.00	
Byron Worthen, member of board.....	750.00	
Samuel J. Lord, engineer and clerk of board	1,599.96	
		<u>\$3,099.96</u>

## DIVISION SUPERINTENDENTS AND ASSISTANTS.

George P. Ames, division No. 2.....	\$500.01	
Charles Francis, division No. 7.....	1,200.00	
Alphonse Laberge, division No. 10.....	700.00	
Emile A. Blanchet, timekeeper.....	830.76	
Cyrus A. Libbey, foreman.....	519.30	
		\$3,750.07

## CLERICAL SERVICES.

Harrie H. Clement.....	\$1,376.09	
Felix A. Lepage.....	737.43	
Honore Mailhot .....	9.00	
Leon B. Stevens.....	811.08	
		\$2,933.60

## SUPPLIES, ETC.

J. J. Abbott, moulding.....	\$0.48	
American Express Co., charges.....	33.72	
American Ribbon & Carbon Co., 1 coupon book .....	3.75	
The Barton Co., 1 hat tree.....	1.29	
Baltimore Enamel & Novelty Co., enamel plates .....	106.25	
Boston & Maine Railroad, freight.....	.66	
Burroughs Adding Machine Co., attention to machine .....	3.70	
E. H. Chadbourne, P. M., stamps.....	45.00	
John B. Clarke Co., printing.....	15.00	
Harrie H. Clement, cash paid for express, envelopes, gasoline, etc.....	17.95	
Farrell Brothers, electric supplies and labor	23.69	
E. C. Fessant, 3 automatic clips.....	1.00	
Finney Upholstering & Window Cleaning Co., recaning chairs.....	2.30	
George D. Fitts, cards and folders.....	2.70	
W. P. Goodman, stationery.....	56.00	
Hale & Whittemore, framing plan of Rock Rimmon park .....	15.00	
J. Hodge, wood and labor.....	9.32	
Kee Lox Manufacturing Co., 1 coupon book	4.50	
Ideal Stamp Co., ink and stamps.....	3.35	
Samuel J. Lord, cash paid for automobile supplies .....	18.00	
Manchester Coal & Ice Co., ice.....	5.04	

Municipal Journal & Engineer, 1 subscrip- tion, March, 1914.....	\$3.00	
New England Telephone & Telegraph Co., use of telephones.....	275.12	
M. D. Powers, subscription to "Good Roads" to October, 1916.....	2.00	
Francis Pratt, Jr., pens.....	1.50	
Rapid Mailing Bureau, Inc., adding machine paper .....	2.50	
Ruemely Press, printing and binding.....	456.00	
Temple & Farrington Co., binding covers, etc. ....	47.39	
Peter J. Thornton, 2 batteries.....	.40	
John B. Varick Co., supplies, etc.....	53.05	
Louis Vogel, use of team.....	3.00	
Samuel Ward Co., binder staples.....	4.56	
F. S. Webster Co., cutters.....	.45	
C. H. Whittier, 12 inkwells.....	10.50	
J. Arthur Williams, printing.....	15.50	
J. Arthur Williams, paper.....	1.00	
		<u>\$1,244.67</u>
Total expenditures.....		\$11,028.30
Transferred to unappropriated money.....		2,727.20
		<u><u>\$13,755.50</u></u>

### Repairs of Highways.

Appropriation .....	\$40,000.00	
Received for labor and material sold.....	11,956.58	
		<u>\$51,956.58</u>

### EXPENDITURES.

#### LABOR.

#### Division No. 2:

January .....	\$185.69
February .....	236.38
March .....	925.39
April .....	2,240.04
May .....	1,686.17
June .....	2,075.36
July .....	884.11

## REPAIRS OF HIGHWAYS.

73

August .....	\$1,567.27	
September .....	630.33	
October .....	1,455.68	
November .....	1,140.74	
December .....	403.06	
	<hr/>	\$13,430.22
Division No. 4:		
June .....	\$83.86	
July .....	42.68	
October .....	21.00	
November .....	276.31	
December .....	217.14	
	<hr/>	\$640.99
Division No. 5:		
April .....	\$4.96	
May .....	3.08	
June .....	3.24	
August .....	4.40	
September .....	120.14	
November .....	6.44	
December .....	16.78	
	<hr/>	\$159.04
Division No. 7:		
January .....	\$309.08	
February .....	328.64	
March .....	216.67	
April .....	765.65	
May .....	972.62	
June .....	592.71	
July .....	738.77	
August .....	680.08	
September .....	63.41	
October .....	306.19	
November .....	244.40	
December .....	30.98	
	<hr/>	\$5,249.20
Division No. 9:		
April .....	\$35.32	
May .....	90.86	
June .....	184.39	
July .....	262.33	
August .....	167.20	
October .....	15.55	
	<hr/>	\$755.65

## Division No. 10:

January .....	\$291.34
February .....	282.53
March .....	310.02
April .....	1,203.34
May .....	441.74
June .....	1,341.50
July .....	970.04
August .....	365.87
September .....	443.65
October .....	1,296.19
November .....	685.08
December .....	544.46

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 \$8,175.76

## STONE, GRAVEL, LUMBER.

Amoskeag Manufacturing Co., lumber, etc.	\$9.80
Daniel Connor estate, gravel.....	17.20
Essex Trap Rock & Construction Co., broken stone .....	3,759.95
John S. Lovering, gravel.....	23.70
Massachusetts Broken Stone Co., broken stone .....	3,885.33
Waltham Trap Rock Co., broken stone....	3,505.07
West Side Lumber Co., lumber and posts..	227.63
Woodstock Lumber Co., boards.....	104.94
U. S. Bobbin & Shuttle Co., plank.....	2.75

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 \$11,536.37

## OTHER SUPPLIES AND REPAIRS.

L. B. Bodwell, coal.....	\$403.94
Bay State Lubricant Co., grease.....	12.00
Buffalo Steam Roller Co., supplies.....	124.00
S. P. Dodge Co., planing lumber.....	1.75
Dyar Supply Co., 1 derrick.....	3,325.00
Dyar Supply Co., supplies and labor.....	673.08
C. M. Floyd, gloves.....	1.50
Good Roads Machinery Co., ladder steps...	2.00
Gulf Refining Co., gasoline.....	23.40
Indian Refining Co., liquid asphalt.....	612.95
Manchester Auto Garage, supplies and re- pairs .....	376.53
Manchester Machine Works, material and repairs .....	45.10
Manchester Street Railway, old rails, ties, bolts .....	92.58



Manchester Traction, Light & Power Co., electricity, stone crusher and hoist.....	\$491.74	
New England Road Machinery Co., 1 grader and supplies .....	655.21	
Pike & Heald Co., gaskets, glasses, etc.....	3.89	
Robie Consolidated Concrete Co., concrete..	4,644.57	
Standard Oil Co., oil.....	4.50	
Stark Mills, duck.....	5.75	
Vacuum Oil Co., oil.....	11.86	
John B. Varick Co., hardware and tools....	325.20	
Water Commissioners, use of water.....	30.00	
	<hr/>	\$11,866.55
SUNDRIES.		
American Express Co., charges.....	\$2.45	
Boston & Maine Railroad, freight.....	138.40	
S. B. Stearns, additional insurance premium	1.95.	
	<hr/>	\$142.80
Total expenditures.....		<hr/> <hr/> \$51,956.58

Snow and Ice and Cleaning Streets.

Appropriation .....	\$16,000.00
	<hr/> <hr/>

EXPENDITURES.

LABOR.

Division No. 2:		
January .....	\$1,597.38	
February .....	1,144.51	
March .....	1,185.03	
April .....	917.72	
May .....	1,317.16	
June .....	1,343.90	
July .....	857.76	
August .....	328.10	
September .....	498.86	
October .....	753.76	
November .....	971.55	
December .....	987.36	
	<hr/>	\$11,903.09
Division No. 7:		
January .....	\$53.75	
February .....	46.13	

March .....	\$110.69	
December .....	30.87	
		\$241.44
Division No. 10:		
January .....	\$144.25	
February .....	275.36	
March .....	440.53	
April .....	5.33	
May .....	1,218.05	
June .....	340.15	
October .....	17.65	
November .....	105.84	
December .....	114.23	
		\$2,661.39
SUNDRIES.		
Concord Foundry & Machine Co., castings..	\$13.61	
H. Thompson, brooms and handles.....	62.00	
John B. Varick Co., chain, hoes, scoop handles .....	13.89	
		\$89.50
Total expenditures.....		\$14,895.42
Transferred to unappropriated money.....		1,104.58
		\$16,000.00

### Watering Streets.

Appropriation .....	\$4,000.00	
Received for material sold.....	2,314.20	
		\$6,314.20

### EXPENDITURES.

#### LABOR.

Division No. 2:		
January .....	\$5.30	
March .....	6.21	
April .....	12.07	
May .....	676.64	
June .....	787.53	
July .....	516.83	
August .....	307.40	
September .....	289.22	

## PAVING STREETS.

77

October .....	\$44.72	
November .....	9.02	
December .....	3.08	
		\$2,658.02
Division No. 7:		
February .....	\$2.50	
May .....	173.92	
June .....	312.50	
July .....	427.58	
August .....	266.60	
September .....	243.10	
October .....	10.00	
December .....	2.80	
		\$1,439.30
Division No. 10:		
January .....	\$5.56	
February .....	2.33	
March .....	1.98	
April .....	3.98	
May .....	175.97	
June .....	295.60	
July .....	452.44	
August .....	290.08	
September .....	354.98	
October .....	45.04	
November .....	31.12	
		\$1,659.08
SUNDRIES.		
Amoskeag Manufacturing Co., repairing sprinklers .....	\$103.94	
Boston & Maine Railroad, freight and car service .....	81.00	
Chandler Eastman Co., supplies.....	7.75	
Manchester Coal & Ice Co., ice.....	120.00	
Maxwell Ice Co., ice.....	120.00	
C. F. McDonald, installing bubblers, etc...	83.76	
Pike & Heald Co., dippers, handles, etc...	22.61	
John B. Varick Co., hose and bolts.....	19.04	
		\$558.10
Total expenditures.....		\$6,314.20
Paving Streets.		
Appropriation .....	\$20,000.00	
Received for material sold.....	2,879.97	
		\$22,879.97

## EXPENDITURES.

## LABOR.

## Division No. 2:

January .....	\$9.18
February .....	.52
April .....	2.70
May .....	5.40
June .....	195.55
July .....	603.11
August .....	784.89
September .....	141.55
October .....	422.47
November .....	856.17
December .....	31.93

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 \$3,053.47

## Division No. 7:

November .....	\$96.98
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## Division No. 10:

January .....	\$25.46
February .....	22.31
May .....	4.00
July .....	30.37
August .....	120.05
September .....	798.50
October .....	210.44
November .....	105.82
December .....	259.07

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 \$1,576.02

## SUNDRIES.

Barrett Manufacturing Co., paving pitch..	\$16.67
Charles A. Bailey, paving blocks.....	14,772.13
Boston & Maine Railroad, freight.....	.85
Bunton & Bernard, lumber, nails, and labor	18.11
Dyar Supply Co., engine supplies.....	21.45
Hanscom Construction Co., paving.....	681.31
Manchester Hardware Co., batteries.....	1.50
Manchester Machine Works, repairs.....	12.32
Henry W. Parker, cement.....	646.00
Robie Consolidated Concrete Co., concrete..	1,979.98
John B. Varick Co., hose, etc.....	3.18

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 \$18,153.50

Total expenditures.....	\$22,879.97
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Macadamizing and New Highways.

Appropriation .....	\$7,500.00	
Appropriation, sale of bonds, October 3, 1913	65,000.00	
Transferred from unappropriated money	4,999.77	
		<u>\$77,499.77</u>

EXPENDITURES.

LABOR.

Division No. 2:		
January .....	\$728.87	
February .....	477.02	
March .....	9.00	
April .....	8.46	
May .....	366.50	
June .....	688.21	
July .....	4,278.23	
August .....	925.67	
September .....	5,132.14	
October .....	4,171.60	
November .....	2,902.80	
December .....	1,739.72	
		<u>\$21,428.22</u>

Division No. 7:		
June .....	\$698.27	
July .....	1,226.91	
August .....	478.39	
September .....	1,211.75	
October .....	365.00	
November .....	685.18	
December .....	14.84	
		<u>\$4,680.34</u>

Division No. 10:		
January .....	\$145.27	
March .....	2.00	
May .....	10.83	
August .....	367.90	
September .....	878.51	
October .....	420.35	
November .....	488.25	
December .....	426.15	
		<u>\$2,739.26</u>

SUNDRIES.

American Car Sprinkler Co., liquid asphalt and applying same.....	\$1,343.36
C. A. Bailey, granite curbing.....	555.41

Barrett Manufacturing Co., "tarvia".....	\$287.28
L. B. Bodwell, coal.....	650.83
Boston & Maine Railroad, freight.....	494.57
Buffalo Steam Roller Co., supplies.....	5.04
Bunton & Bernard, material and labor....	147.64
H. D. W. Carvelle, M. D., services rendered injured employe .....	32.00
Concord Foundry & Machine Co., castings..	362.14
James F. Cavanaugh, macadamizing Han- over street.....	6,088.80
Cavanaugh Brothers, brick.....	373.74
Dyar Supply Co., erecting and assembling derrick .....	248.07
Essex Trap Rock & Construction Co., broken stone .....	9,180.46
Good Roads Machinery Co., 1 road roller, less allowance for old roller.....	2,500.00
Gulf Refining Co., gasoline.....	60.30
Haines & Teall, Rocmac binder.....	1,432.22
W. F. Head & Son, brick.....	171.50
Indian Refining Co., asphalt binder.....	1,236.35
Manchester Machine Works, material and labor .....	10.62
Manchester Traction, Light & Power Co., power, connecting motor and repairs....	353.94
Massachusetts Broken Stone Co., broken stone .....	8,182.58
New England Investment Co., building wall, Willow street .....	494.25
New England Road Machinery Co., 1 13-ton roller .....	3,250.00
Palmer & Garmon, broken stone.....	206.44
Pease Company, curbing.....	507.46
Pike & Heald Co., bushing, etc.....	1.75
Red Arrow Garage, labor on roller.....	4.50
Robie Consolidated Concrete Co., repairs..	22.07
Rockland & Rockport Lime Co., limestone screenings .....	126.86
S. B. Stearns, insurance premium.....	180.00
Mrs. Joseph Scott, 2 hats damaged by blow- ing off steam from road roller.....	7.00
The Texas Co., oil.....	50.47
John B. Varick Co., hardware and tools....	147.18
Waltham Trap Rock Co., stone.....	9,879.80
Charles Warner Co., screenings.....	51.04
West Side Lumber Co., boards.....	6.28
	<hr/>
	\$48,651.95
Total expenditures.....	<hr/> <hr/> \$77,499.77

## Grading for Concrete.

Appropriation .....	\$7,000.00	
Received for labor and material sold.....	1,612.92	
		<u>\$8,612.92</u>

## EXPENDITURES.

## LABOR.

Division No. 2:		
January .....	\$727.48	
February .....	838.26	
March .....	398.26	
April .....	1,061.70	
May .....	647.05	
June .....	390.49	
July .....	648.32	
August .....	112.56	
September .....	422.70	
October .....	307.68	
November .....	683.69	
December .....	319.97	
		<u>\$6,558.16</u>
Division No. 7:		
December .....		\$54.12
Division No. 10:		
January .....	\$57.35	
February .....	16.98	
April .....	11.92	
May .....	71.09	
June .....	101.66	
July .....	296.90	
September .....	313.08	
October .....	70.68	
November .....	169.57	
December .....	115.45	
		<u>\$1,224.68</u>

## SUNDRIES.

Amoskeag Manufacturing Co., lumber.....	\$8.78
C. A. Bailey, curbing.....	9.00
Bisson & Jodoin, iron and making patterns	3.65
L. B. Bodwell, coal.....	15.85
Boston & Maine Railroad, freight.....	48.83
Detroit Graphite Co., paint.....	15.00
Pease Company, curbing .....	530.68

Robie Consolidated Concrete Co., repairs..	\$126.11	
John B. Varick Co., hardware and tools...	18.06	
		<u>\$775.96</u>
Total expenditures.....		<u><u>\$8,612.92</u></u>

### Scavenger Service.

Appropriation .....	\$30,000.00	
Received for labor and material sold.....	5,924.63	
		<u>\$35,924.63</u>

### EXPENDITURES.

#### LABOR.

Division No. 2:		
January .....	\$2,305.14	
February .....	1,785.08	
March .....	1,917.47	
April .....	2,633.67	
May .....	2,006.26	
June .....	1,828.30	
July .....	2,250.05	
August .....	1,557.76	
September .....	1,826.36	
October .....	1,499.21	
November .....	1,689.51	
December .....	1,751.14	
		<u>\$23,049.35</u>
Division No. 7:		
December .....		\$1.98
Division No. 10:		
September .....	\$5.94	
December .....	12.42	
		<u>\$18.36</u>

#### SUNDRIES.

Amoskeag Manufacturing Co., material and labor .....	\$114.66
William G. Berry, automobile insurance premium .....	290.00
Mrs. W. H. Bickford, contract work.....	2,162.64
Bisson & Jodoin, iron and repairs.....	1.88
Boston & Maine Railroad, freight.....	4.66
Concord Foundry & Machine Co., castings..	12.60



Cornplanter Refining Co., gasoline.....	\$78.00	
S. P. Dodge Co., 1 pole and sawing lumber	9.20	
Goodyear Tire & Rubber Co., supplies.....	212.03	
Granite State Rubber Co., hose.....	1.82	
Gulf Refining Co., gasoline.....	2,297.73	
Manchester Auto Garage, supplies and repairs .....	1,076.24	
Manchester Machine Works, labor.....	11.51	
Manchester Welding Co., welding.....	5.50	
J. B. McCrillis & Son, brazing crank case and new body for truck.....	232.00	
Peerless Motor Car Co., supplies and repairs	362.93	
Edward N. Pearson, registration of trucks	40.00	
Levi J. Proctor, inspector of service.....	999.96	
Sanborn Carriage <sup>o</sup> Co., rubber tires and labor .....	137.25	
John A. Sheehan, automobile insurance premium .....	145.00	
W. C. Spear, 1 4-ton motor truck, etc.....	4,282.38	
Standard Oil Co., oil.....	5.40	
Theodore St. Onge, two weeks' pay, on account of accident at city dump.....	23.76	
Vacuum Oil Co., oil.....	202.94	
John B. Varick Co., tools and hardware...	144.25	
		\$12,854.34
Total expenditures.....		\$35,924.63

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**Street Sweeping.**

Appropriation .....	\$11,500.00
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**EXPENDITURES.**
**LABOR.**
**Division No. 2:**

January .....	\$935.85
February .....	773.51
March .....	726.15
April .....	1,022.23
May .....	814.77
June .....	814.66
July .....	985.60
August .....	814.44

## ANNUAL OFFICIAL REPORT.

September .....	\$993.96	
October .....	799.26	
November .....	811.80	
December .....	606.32	
		<hr/>
		\$10,098.55
Division No. 10.....		\$1.98

## SUNDRIES.

Boston & Maine Railroad, freight.....	\$8.64	
Smith-Ramsay Automobile Co., repairing fender, damaged by sweeper.....	2.30	
H. Thompson, brooms and refilling brooms	105.50	
New England Road Machinery Co., broom and cleaners with cans.....	433.00	
		<hr/>
		\$549.44
		<hr/>
Total expenditures.....		\$10,649.97
Transferred to unappropriated money.....		850.03
		<hr/>
		\$11,500.00
		<hr/> <hr/>

## Machine Sweeping.

Appropriation .....	\$4,000.00
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## EXPENDITURES.

## LABOR.

Division No. 2:		
January .....	\$60.49	
February .....	23.63	
March .....	28.68	
April .....	7.94	
May .....	26.23	
June .....	103.69	
July .....	413.80	
August .....	354.18	
September .....	441.24	
October .....	360.93	
November .....	358.63	
		<hr/>
		\$2,179.44
Division No. 10:		
July .....		\$11.11

## SUNDRIES.

Boston & Maine Railroad, freight.....	\$5.29	
John Eisenmann & Co., refilling broom....	32.00	
New England Road Machinery Co., 1 sweeper, brooms, etc.....	388.54	
H. Thompson, refilling sweepers.....	113.75	
		<u>\$539.58</u>
Total expenditures.....	\$2,730.13	
Transferred to unappropriated money.....	1,269.87	
		<u>\$4,000.00</u>

## Oiling Streets.

Appropriation .....	\$14,000.00	
Received for labor and material sold.....	182.42	
		<u>\$14,182.42</u>

## EXPENDITURES.

## LABOR.

Division No. 2:		
June .....	\$20.36	
July .....	11.76	
August .....	27.30	
September .....	432.28	
November .....	76.92	
		<u>\$568.62</u>
Division No. 7:		
October .....		\$149.24

## SUNDRIES.

American Car Sprinkler Co., furnishing and applying road oil.....	\$13,244.07	
Boston & Maine Railroad, freight and car service .....	101.83	
Dyar Supply Co., tar kettle and pouring pots .....	118.50	
Manchester Supply Co., pipe.....	.16	
		<u>\$13,464.56</u>
Total expenditures.....	\$14,182.42	

## Bridges.

Appropriation .....	\$7,000.00	
Appropriation, temporary loan, Cemetery Brook culvert .....	5,000.00	
Received for material sold.....	703.71	
		\$12,703.71

## EXPENDITURES.

## LABOR.

Division No. 2:		
January .....	\$25.83	
February .....	38.20	
July .....	183.98	
August .....	39.06	
October .....	3.06	
December .....	454.39	
		\$744.52
Division No. 5:		
December .....		\$3.19
Division No. 7:		
September .....	\$264.44	
October .....	343.89	
November .....	144.82	
		\$753.15
Division No. 9:		
October .....		\$8.56
Division No. 10:		
January .....	\$47.16	
February .....	4.62	
May .....	27.04	
June .....	20.23	
October .....	69.90	
November .....	18.68	
December .....	5.15	
		\$192.78

## SUNDRIES.

Batchelder-Worcester Co., plank.....	\$161.50
Boston & Maine Railroad, freight.....	34.48
Champagne & Charnley, sawing wedges...	2.00
Detroit Graphite Co., paint.....	436.95
S. P. Dodge Co., planing lumber.....	.90
Charles R. Gow Co., test borings in Merri- mack river at Byron street.....	261.98

KELLEY STREET BRIDGE.

87

Hanscom Construction Co., building culverts	\$805.14	
Harrington, Robinson & Co., steel beams..	489.67	
Manchester Hardware Co., oil barrels.....	8.80	
Manchester Supply Co., pipe, etc.....	4.20	
W. H. Maxwell, plank.....	482.16	
George McQuesten Co., lumber.....	133.76	
J. H. Mendell Co., work on culvert.....	29.40	
Henry W. Parker, cement.....	1,463.00	
Putnam & Laflamme, accident insurance premium .....	84.50	
United Construction Co., painting bridges	1,261.42	
John B. Varick Co., hardware.....	182.23	
West Side Lumber Co., plank, etc.....	159.42	
	<hr/>	\$6,001.51
Total expenditures.....		\$7,703.71
Transferred to new account.....		5,000.00
		<hr/>
		\$12,703.71
		<hr/> <hr/>

**Kelley Street Bridge.**

Appropriation, from sale of bonds.....	\$99,000.00
	<hr/> <hr/>

EXPENDITURES.

LABOR.

The United Construction Co., on account of contract to build .....	\$11,027.00
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SUNDRIES.

Herbert F. Earle, services as inspector....	\$228.44	
Engineering Record, advertising proposals	16.00	
Western Union Telegraph Co., telegram...	4.24	
	<hr/>	\$248.68

Total expenditures.....	\$11,275.68
Transferred to new account.....	87,724.32
	<hr/>
	\$99,000.00
	<hr/> <hr/>

## City Teams.

Appropriation .....	\$18,000.00	
Receive for labor and material sold.....	5,017.12	
		<u>\$23,017.12</u>

## EXPENDITURES.

## LABOR.

## Division No. 2:

January .....	\$1,155.83	
February .....	1,472.63	
March .....	1,084.17	
April .....	1,228.44	
May .....	821.10	
June .....	708.08	
July .....	789.35	
August .....	530.45	
September .....	773.69	
October .....	567.79	
November .....	639.86	
December .....	712.47	
		<u>\$10,483.86</u>

## Division No. 10:

July .....	\$4.00	
September .....	5.00	
		<u>\$9.00</u>

## GRAIN, HAY, STRAW.

Arthur S. Brown.....	\$357.85	
Rt. Rev. G. A. Guertin.....	35.06	
F. H. Masse & Co .....	2,639.93	
		<u>\$3,032.84</u>

## HARNESSES AND REPAIRS.

Kimball Carriage Co.....	\$8.00	
Alva Silva .....	77.55	
Joseph Vogel & Co.....	140.75	
		<u>\$226.30</u>

## VETERINARY EXPENSES.

Leo Cavanaugh, boarding horse, veterinary expenses, and burying horse.....	\$17.00	
J. L. Golden, V. S., services and medicine..	34.75	
A. J. Precourt, medicine.....	3.80	
		<u>\$55.55</u>

## CITY TEAMS.

89

## FUEL, FREIGHT, LIGHTS, WATER.

L. B. Bodwell, coal.....	\$488.63
Boston & Maine Railroad, freight.....	.41
W. E. Dunbar & Sons, coal.....	961.30
Manchester Traction, Light & Power Co., electric lights, city farm and city stables	403.25
People's Gas Light Co., gas.....	12.32
Water Commissioners, use of water.....	71.60

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 \$1,937.51

## MATERIAL AND REPAIRS.

J. J. Abbott, gilding weather vane.....	\$5.00
W. L. Aller, vulcanizing.....	21.50
American Locomotive Co., steel plate.....	.90
Amoskeag Manufacturing Co., lumber, waste, etc.....	25.48
Bisson & Jodoin, 2 tanks, and repairs.....	45.70
Brodie Electric & Automobile Co., 1 wind shield .....	5.00
Bunton & Bernard, repairing roof, city yard	262.08
Champagne & Charnley, sawing and planing lumber .....	12.50
Concord Foundry & Machine Co., castings..	4.25
C. DeMoulied & Co., chairs and tables....	15.00
S. P. Dodge Co., material and labor.....	84.33
A. G. Dyer, leather.....	2.45
Exide Battery Depots, Inc., 1 hydrometer syringe .....	1.55
Farrell Brothers, supplies and labor.....	79.23
Goodyear Tire & Rubber Co., tires, etc....	239.88
Granite State Rubber Co., hose and rubber boots .....	4.38
Gulf Refining Co., gasoline.....	206.43
Hamblet & Haynes Co., sponges.....	106.09
James W. Hill Co., denim.....	4.75
J. Hodge, doors, frames, etc.....	35.73
C. A. Hoitt Co., rollers.....	3.15
Manchester Auto Garage, supplies.....	392.91
Manchester Coal & Ice Co., ice, city stables	6.84
Manchester Hardware Co., screws.....	.54
Manchester Machine Works, material and labor .....	11.09
Manchester Supply Co., pipe, etc.....	15.86
Manchester Traction, Light & Power Co., exhaust fan and lamps.....	22.25

J. B. McCrillis & Son, auto supplies and repairs .....	\$185.00
C. F. McDonald:	
Installing steam boiler, city yard.....	300.00
Relining tank at city farm.....	5.20
A. J. McKelvie, grate and frame.....	2.75
F. L. Noyes, roofing material and labor....	432.14
F. F. Osgood, old belting.....	14.23
H. W. Parker, lime, soap, salt.....	26.15
Garrett Phalan, installing steam boiler....	754.77
Pike & Heald Co., material and labor.....	24.95
Red Arrow Garage, gasoline.....	2.25
Richardson & Boynton Co., 1 steam boiler..	285.45
Rockingham Garage, Machine & Repair Shop, 1 auto casing.....	31.75
Standard Oil Co., gasoline and oil.....	46.80
M. E. Sturtevant, spark plugs.....	5.00
Swift & Co., soap.....	3.40
U. S. Metal Products Co., 4 sets Ritter doors at garage and installing same.....	520.00
John B. Varick Co., tools and hardware...	1,214.44
West Side Lumber Co., lumber and labor..	138.37
John S. Wheeler, mason work at garage...	21.60
	<hr/>
	\$5,629.12

## SUNDRIES.

W. G. Berry, insurance premium.....	\$122.55
E. A. Blanchet, use of horse.....	166.88
Cavanaugh Brothers, corn on the ear.....	30.00
Committee on City Farm, rent of land and buildings .....	1,020.00
Everett & Bunton, insurance premium....	20.00
John B. Hall Co., medicine for man injured at stable .....	5.05
Abonhse Laberge, board of horse.....	93.00
John A. Sheehan, insurance premium.....	97.60
West Disinfecting Co., disinfectant.....	34.00
	<hr/>
	\$1,589.08
	<hr/>
Total expenditures.....	\$22,963.26
Transferred to unappropriated money.....	53.86
	<hr/>
	\$23,017.12
	<hr/> <hr/>



Repairs of Sewers.

Appropriation .....	\$8,000.00	
Transferred from unappropriated money..	1,369.91	
		<u>\$9,369.91</u>

EXPENDITURES.

LABOR.

Division No. 2:

January .....	\$280.82	
February .....	100.39	
March .....	1,169.83	
April .....	521.75	
May .....	308.39	
June .....	30.48	
July .....	301.30	
August .....	297.52	
September .....	208.40	
October .....	2.55	
November .....	24.51	
December .....	30.88	
		<u>\$3,276.82</u>

Division No. 7:

September .....		\$12.51
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Division No. 10:

January .....	\$105.30	
February .....	115.55	
March .....	177.93	
April .....	259.72	
May .....	63.42	
June .....	149.40	
July .....	97.79	
August .....	111.15	
September .....	123.98	
October .....	717.20	
November .....	247.46	
December .....	103.92	
		<u>\$2,272.82</u>

SUNDRIES.

Jacob Alter, repairing sewer.....	\$3.68
American Express Co., charges.....	3.30
H. L. Bond Co., engine supplies.....	11.50
Boston & Maine Railroad, freight.....	29.37
S. F. Bowser & Co., Inc., nozzle filter, etc..	15.00

Brodie Electric & Automobile Co., supplies and labor.....	\$7.95	
Arthur S. Brown, plaster and lime.....	2.20	
James F. Cavanaugh, brick.....	334.24	
Concord Foundry & Machine Co., castings	1,370.89	
George W. Dodge Shoe Co., rubber boots..	9.00	
Dyar Supply Co., grates for boiler.....	19.00	
Edson Manufacturing Co., hose, couplings, etc. ....	48.60	
W. F. Head & Son, brick.....	251.88	
Healey Sewer Machine & Construction Co., supplies .....	285.00	
Charles B. Kearns, repairing rubber boots	5.25	
Manchester Machine Works, stock and labor	1.11	
T. J. O'Connor, repairing rubber boots....	2.25	
Palmer & Garmon, catch-basin curbs.....	180.53	
Henry W. Parker, cement.....	323.00	
Pike & Heald Co., pipe.....	7.36	
Putnam & Laflamme, accident insurance premium .....	382.17	
Standard Oil Co., oil.....	7.65	
John H. Stevens, pipe, etc.....	30.19	
John B. Varick Co., hose, tools, hardware..	473.35	
West Side Lumber Co., lumber.....	3.29	
		<hr/>
		\$3,807.76
		<hr/>
Total expenditures.....		\$9,369.91
		<hr/> <hr/>

**New Sewers.**

Appropriation .....	\$17,500.00	
Appropriation from sale of bonds, October 3, 1913.....	35,000.00	
		<hr/>
		\$52,500.00
		<hr/> <hr/>

**EXPENDITURES.**

**LABOR.**

**Division No. 2:**

January .....	\$451.71
February .....	6.57
March .....	88.40
April .....	264.77
May .....	369.03
June .....	263.16

NEW SEWERS.

July .....	\$168.09	
August .....	53.46	
September .....	12.32	
October .....	189.74	
November .....	504.69	
December .....	605.88	
	<hr/>	\$2,977.82
Division No. 7:		
January .....	\$494.99	
May .....	50.55	
June .....	138.47	
September .....	53.10	
October .....	463.98	
November .....	594.52	
December .....	1,227.72	
	<hr/>	\$3,023.33
Division No. 10:		
January .....	\$1,115.71	
February .....	437.58	
March .....	67.00	
May .....	407.77	
June .....	84.48	
July .....	101.36	
August .....	248.85	
September .....	836.91	
October .....	1,112.52	
November .....	1,563.29	
December .....	1,840.81	
	<hr/>	\$7,816.28
Cyrus A. Libbey, foreman.....		\$144.25

SUNDRIES.

A. T. Beaumier, rubber boots.....	\$38.00
L. B. Bodwell, coal.....	21.56
Boston & Maine Railroad, freight.....	1,767.25
Canedy Otto Manufacturing Co., 1 feed nut for drill .....	.84
Concord Foundry & Machine Co., castings..	1,916.12
G. W. Dodge Shoe Co., rubber boots.....	12.00
Eastern Clay Goods Co., sewer pipe.....	131.52
Granite State Rubber Co., oil suits, rubber boots .....	49.86
W. F. Head & Son, brick.....	496.72
A. P. Horne, sewer pipe.....	2.68
Manchester Supply Co., 1 tee.....	.80
Henry W. Parker, cement.....	2,003.80

Putnam & Laflamme, accident insurance premium .....	\$1,552.24	
Standard Oil Co., oil.....	21.24	
S. B. Stearns, boiler insurance premium...	60.00	
John H. Stevens, sewer pipe.....	3,482.80	
The Texas Co., oil and kerosene.....	39.20	
John B. Varick Co., hardware and tools...	198.23	
West Side Lumber Co., lumber.....	140.88	
G. F. Wenzel, sharpening drills.....	1.65	
Woodstock Lumber Co., lumber.....	1,042.13	
		<u>\$12,979.52</u>
Total expenditures.....		\$26,941.20
Transferred to unappropriated money.....		16,929.06
Transferred to new account.....		8,629.74
		<u>\$52,500.00</u>

#### Commons.

Appropriation .....	\$3,000.00	
Transferred from unappropriated money..	1,814.77	
		<u>\$4,814.77</u>

#### EXPENDITURES.

##### LABOR.

January .....	\$77.22	
February .....	130.90	
March .....	127.38	
April .....	254.10	
May .....	153.12	
June .....	212.30	
July .....	169.18	
August .....	152.90	
September .....	187.44	
October .....	174.68	
November .....	151.80	
December .....	69.74	
		<u>\$1,860.76</u>
Division No. 2:		
August .....	\$20.52	
September .....	249.36	
November .....	20.68	
		<u>\$290.56</u>

STARK PARK.

95

Division No. 10:

April .....	\$5.06
John Seastrom, superintendent.....	\$900.00

SUNDRIES.

Amoskeag Manufacturing Co., labor on steel	\$0.80
F. J. Bixby, plants.....	367.34
Boston & Maine Railroad, freight.....	17.25
Arthur S. Brown, grain.....	7.10
Frank J. Clark, V. S., services.....	6.50
Concord Foundry & Machine Co., castings..	33.42
Henry B. Fairbanks, fertilizer.....	116.00
A. P. Horne & Co., shrubs.....	19.80
Manchester Traction, Light & Power Co., electric lights and lamps.....	77.51
C. F. McDonald, repairing fountains.....	10.31
Pease Company, curbing.....	151.45
Robie Consolidated Concrete Co., sidewalk repairs .....	229.88
Alva Silva, 1 saddle hook.....	.75
John B. Varick Co., tools and hardware...	81.71
Water Commissioners, use of water.....	600.00
West Side Lumber Co., lumber and labor..	38.57
	<hr/>
	\$1,758.39
	<hr/>
Total expenditures.....	\$4,814.77
	<hr/> <hr/>

Stark Park.

Balance from last year unexpended.....	\$977.23
Appropriation .....	500.00
Transferred from unappropriated money..	151.57
	<hr/>
	\$1,628.80
	<hr/> <hr/>

EXPENDITURES.

LABOR.

January .....	\$21.78
March .....	51.04
April .....	10.34
May .....	121.88
June .....	114.40
July .....	151.68
August .....	40.26

September .....	\$79.86	
October .....	49.06	
November .....	38.50	
December .....	16.28	
		<hr/>
		\$695.08
Division No. 2:		
December .....		\$71.57

## SUNDRIES.

F. J. Bixby, plants.....	\$90.69	
Boston & Maine Railroad, freight.....	22.40	
Henry B. Fairbanks, fertilizer.....	116.00	
J. Hodge, boards, etc.....	9.08	
The J. L. Mott Iron Works, iron railing...	600.00	
Pike & Heald Co., 1 hose bibb.....	1.16	
John B. Varick Co., tools.....	10.82	
Water Commissioners, use of water.....	12.00	
		<hr/>
		\$862.15
Total expenditures.....		<hr/> <hr/>
		\$1,628.80

## Derryfield Park.

Appropriation .....	\$500.00	
Transferred from unappropriated money..	420.79	
		<hr/>
		\$920.79
		<hr/> <hr/>

## EXPENDITURES.

## LABOR.

January .....	\$77.66	
February .....	10.12	
March .....	53.02	
April .....	80.74	
May .....	57.64	
June .....	85.58	
July .....	198.58	
August .....	17.82	
September .....	7.92	
October .....	52.80	
November .....	21.78	
December .....	47.52	
		<hr/>
		\$711.18

PROUT PARK.

97

SUNDRIES.

W. G. Berry, insurance premium.....	\$5.00	
F. J. Bixby, plants.....	44.88	
Henry B. Fairbanks, fertilizer.....	116.00	
John A. Sheehan, insurance premium.....	6.00	
John B. Varick Co., hardware.....	7.73	
Water Commissioners, use of water.....	30.00	
		\$209.61
Total expenditures.....		\$920.79

Lafayette Park.

Appropriation .....	\$500.00
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EXPENDITURES.

LABOR.

Commons:		
August .....	\$4.40	
October .....	1.98	
		\$6.38
Division No. 10:		
February .....	\$3.31	
July .....	3.96	
December .....	4.40	
		\$11.67
Total expenditures.....		\$18.05
Transferred to unappropriated money.....		481.95
		\$500.00

Prout Park.

Appropriation .....	\$1,000.00
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EXPENDITURES.

LABOR.

Commons:		
August .....	\$103.28	
September .....	139.04	
		\$242.32

## SUNDRIES.

Manchester Supply Co., pipe.....	\$18.48	
Pike & Heald Co., repairs on building.....	26.10	
Robie Consolidated Concrete Co., sidewalks	362.66	
J. A. Sheehan, insurance premium.....	15.75	
		<u>\$422.99</u>
Total expenditures.....		\$665.31
Transferred to unappropriated money.....		334.69
		<u>\$1,000.00</u>

## Rock Rimmon Park.

Appropriation .....	\$2,000.00
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## EXPENDITURES.

## SUNDRIES.

Sheffield A. Arnold, preliminary survey.....	\$939.06
Total expenditures.....	\$939.06
Balance to new account.....	1,060.94
	<u>\$2,000.00</u>

## East Side Park.

Appropriation .....	\$50.00
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## EXPENDITURES.

## LABOR.

Commons:	
May .....	\$20.46
Total expenditures.....	\$20.46
Transferred to unappropriated money.....	29.54
	<u>\$50.00</u>



Miscellaneous Playgrounds.

Appropriation ..... \$2,400.00

EXPENDITURES.

LABOR.

Commons :

January .....	\$66.00
February .....	107.80
March .....	20.46
April .....	14.90
May .....	38.06
June .....	5.06
July .....	207.34
August .....	449.82
September .....	209.18
October .....	11.88
November .....	16.28
December .....	3.96

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\$1,150.74

Division No. 10:

March .....	\$13.67
April .....	3.96

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\$17.63

SUNDRIES.

Boston & Maine Railroad, freight.....	\$0.25
Joseph Eluto, doilies, thread, needles.....	7.15
A. R. Lopez & Brother, 146 badges.....	17.52
Manchester Street Railway, tickets.....	10.00
Manchester Supply Co., pipe.....	28.81
Charles F. McDonald, repairs and installing water pipe and fountains.....	108.01
F. E. Nelson Co., spoons.....	3.60
Ranno-Speirs Co., tent covers.....	4.50
H. J. Rock, lettering signs.....	2.00
Ruemely Press, printing programs.....	13.50
John B. Varick Co., rope, balls, bats, gloves, masks .....	166.97
Water Commissioners, use of water.....	31.31
West Side Lumber Co., lumber.....	3.52

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\$397.14

Total expenditures..... \$1,565.51  
Transferred to unappropriated money..... 834.49

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\$2,400.00  
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## City Yard.

Appropriation .....	\$1,000.00	
Transferred from unappropriated money..	3,230.48	
		<u>\$4,230.48</u>

## EXPENDITURES.

## LABOR.

Division No. 2:		
February .....	\$168.63	
March .....	13.86	
April .....	290.42	
May .....	728.57	
June .....	205.80	
July .....	119.31	
August .....	157.77	
September .....	442.73	
October .....	211.44	
November .....	640.02	
December .....	334.44	
		<u>\$3,312.90</u>
Division No. 10:		
January .....	\$15.95	
February .....	21.63	
April .....	31.29	
August .....	23.63	
September .....	3.98	
		<u>\$96.48</u>

## SUNDRIES.

American Locomotive Co., boiler plate.....	\$6.00	
Manchester Traction, Light & Power Co., repairing motor .....	5.95	
John Muir, boards and laths.....	7.70	
George B. True, services as inspector.....	801.36	
		<u>\$821.01</u>
Total expenditures.....		<u>\$4,230.48</u>

## Brown-Tail and Gypsy Moth.

Appropriation .....	\$4,650.00	
Received for taxes.....	1,815.32	
Transferred from unappropriated money...	3,829.29	
		<u>\$10,294.61</u>

## EXPENDITURES.

## LABOR.

## Commons:

January .....	\$86.24	
December .....	118.14	
		\$204.38

## CONTRACT FOR REMOVING NESTS.

Daniel F. Cronin.....	\$8,544.93
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## INSPECTORS ON PRIVATE AND CONTRACT WORK.

John J. Bresnahan.....	\$173.75	
P. J. Cronin.....	163.75	
John J. Connor.....	111.94	
W. F. Drea.....	173.99	
Rolin B. Johnston.....	148.25	
John J. McAllister, Jr .....	29.25	
Frank A. Murphy.....	157.49	
W. H. McQuade.....	47.62	
John M. Steward.....	146.24	
		\$1,152.28

## REBATE ON TAX BILLS.

Sally W. Andrews.....	\$6.80	
C. S. Boynton.....	.45	
James A. Folsom.....	1.35	
Mrs. Annie How.....	.68	
McGregor Hall heirs.....	20.00	
Charles W. Hanson.....	.32	
Cora M. Stearns.....	3.60	
Sarah Whelpley .....	.90	
		\$34.10

## SUNDRIES.

Boston & Maine Railroad, freight.....	\$0.36	
E. H. Chadbourne, stamped envelopes.....	77.00	
John B. Clarke Co., printing.....	43.50	
Manchester Traction, Light & Power Co., putting up and taking down globes.....	224.13	
John B. Varick Co., supplies.....	13.93	
		\$358.92
Total expenditures.....		\$10,294.61

**Elm Leaf Beetle.**

Appropriation .....	\$2,500.00	
Transferred from unappropriated money..	1,192.08	
		<u>\$3,692.08</u>

**EXPENDITURES.****SUNDRIES.**

Daniel F. Cronin, removing nests.....	\$3,223.33	
William McQuade, services as inspector...	67.50	
Joseph Morriseau, services as inspector...	65.25	
John B. Varick Co., arsenate of lead.....	336.00	
		<u>\$3,692.08</u>
Total expenditures.....		<u>\$3,692.08</u>

**Cutting and Trimming Trees.**

Appropriation .....	\$1,500.00	
Transferred from unappropriated money..	784.65	
		<u>\$2,284.65</u>

**EXPENDITURES.****LABOR.****Division No. 2:**

January .....	\$232.16	
February .....	4.91	
April .....	1.76	
May .....	279.24	
June .....	90.84	
July .....	84.80	
August .....	295.60	
September .....	301.72	
October .....	276.18	
November .....	246.46	
December .....	171.78	
		<u>\$1,985.45</u>

**Division No. 10:**

January .....		\$7.22
Commons:		
October .....	\$46.86	
November .....	50.82	
		<u>\$97.68</u>

SUNDRIES.

H. A. Piper, filing saws.....	\$0.80	
Putnam & Laflamme, accident insurance premium .....	185.80	
John B. Varick Co., tools.....	7.70	
		<u>\$194.30</u>
Total expenditures.....		<u><u>\$2,284.65</u></u>

Head and Dowst Purchase.

Appropriation .....	\$7,596.12
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EXPENDITURES.

Sally Head Gault:		
Second and third payment on account...	\$6,880.00	
Interest .....	689.80	
		<u>\$7,569.80</u>
Total expenditures.....		<u>\$7,569.80</u>
Transferred to unappropriated money.....		26.32
		<u>\$7,596.12</u>

Lighting Streets.

Appropriation .....	\$65,500.00
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EXPENDITURES.

ELECTRIC LIGHTS.

Manchester Traction, Light & Power Co.:

	Charges.	Discount.
January .....	\$5,345.69	\$32.53
February .....	5,347.49	....
March .....	5,347.29	....
April .....	5,350.73	7.19
May .....	5,357.68	1.00
June .....	5,350.46	.42
July .....	5,350.45	3.77
August .....	5,350.46	....
September .....	5,350.46	2.67

October .....	5,149.46	2.40	
November .....	5,174.19	1.65	
December .....	5,296.65	6.39	
	<hr/>		
	\$63,771.01	\$58.02	
Less discount.....	58.02		
Total .....	<hr/>		\$63,712.99

## ARCHES.

Manchester Traction, Light & Power Co.:			
January .....		\$75.19	
February .....		76.14	
March .....		70.68	
April .....		66.17	
May .....		67.36	
June .....		61.42	
July .....		60.23	
August .....		58.33	
September .....		59.28	
October .....		63.32	
November .....		71.39	
December .....		76.38	
		<hr/>	\$805.89
Manchester Traction, Light & Power Co., lamps and labor			\$180.65

## SUNDRIES.

W. J. Freeman, automobile for committee	\$10.00		
A. L. Gadbois, automobiles for committees	21.00		
	<hr/>		\$31.00
Total expenditures.....		\$64,730.53	
Transferred to unappropriated money.....		769.47	
		<hr/>	\$65,500.00
		<hr/>	<hr/>

## Engineer's Department.

Appropriation .....	\$11,000.00		
Rebate on telephone.....	10.25		
	<hr/>		\$11,010.25
		<hr/>	<hr/>

## EXPENDITURES.

## LABOR.

Samuel J. Lord, general engineer.....	\$1,400.04
Frank Carr .....	342.47
L. P. Cox.....	2.00
Alfred T. Dodge .....	1,099.86
Harold M. Haskell.....	1,069.20
Edson W. Keith.....	872.12
Lawrence A. O'Connor.....	548.86
Clarence Pierce .....	38.00
George W. Wales.....	1,335.60
Henry Worthen.....	928.80
Horace C. Wyman.....	241.05
Harrie M. Young.....	949.00
	<hr/>
	\$8,827.00

## SUPPLIES AND OFFICE EXPENSES.

Bisson & Jodoin, repairing truck.....	\$2.25
Boston & Maine Railroad, freight.....	1.47
John B. Clarke Co.:	
Printing .....	3.50
Printing annual reports .....	41.40
Alfred T. Dodge, cash paid for express ....	.50
Farrell Brothers, material and labor.....	1.93
Julien P. Friez, record sheets.....	5.25
Finney Upholstering & Window Cleaning Co., caning stools.....	2.00
W. P. Goodman, books and stationery.....	2.19
Frank A. Gay, setting batters for library..	11.50
Manchester Auto Garage, exchange on radi- ator for truck and freight.....	26.10
Manchester Coal & Ice Co., ice.....	5.04
Manchester Hardware Co., dry batteries, plumb bob lines.....	1.20
Manchester Nickel Plating Co., nickel plating .....	.75
Manchester Traction, Light & Power Co., repairing electric fan.....	4.95
C. F. McCarty, lettering signs.....	17.25
New England Telephone & Telegraph Co., service .....	30.40
Edward N. Pearson, registration of truck and chauffeur license.....	11.00
The Frederick Post Co., blue print paper..	2.00

E. G. Soltmann, supplies.....	\$95.04	
W. C. Spear:		
Rental of truck.....	300.00	
Balance due on truck.....	975.00	
William Sutherland, Rand-McNally atlas, less one returned.....	2.50	
Temple & Farrington Co., binding records..	2.55	
John B. Varick Co., supplies.....	42.29	
Walker Lithographing & Publishing Co., final payment on map.....	493.90	
West Side Lumber Co., grade stakes.....	90.00	
J. Arthur Williams, printing.....	2.50	
		<hr/>
		\$2,174.46
		<hr/>
Total expenditures.....		\$11,001.46
Transferred to unappropriated money.....		8.79
		<hr/>
		\$11,010.25
		<hr/> <hr/>

### Health Department.

Appropriation .....	\$22,500.00	
Appropriation by resolution, May 6.....	4,000.00	
		<hr/>
		\$26,500.00
		<hr/> <hr/>

### EXPENDITURES.

#### SERVICES.

John B. Cavanaugh, salary as member of board .....	\$380.00	
Gustave Lafontaine, M. D., salary as mem- ber of board.....	380.00	
W. K. Robbins, salary as member of board	380.00	
William B. Blake, sanitary inspector.....	999.96	
Joseph X. Duval, sanitary inspector.....	900.00	
John F. Looney, sanitary inspector.....	999.96	
Carl O. Seaman, plumbing and milk in- spector .....	1,100.04	
M. Alma Fracker, clerk.....	650.00	
		<hr/>
		\$5,789.96

#### TEAMS AND CAR FARES.

W. B. Blake.....	\$8.74
Boufford & Letendre.....	3.00



## HEALTH DEPARTMENT.

107

J. M. Dery.....	\$2.00
Joseph X. Duval.....	3.25
M. Alma Fracker.....	3.00
W. J. Freeman.....	2.00
A. L. Gadbois.....	8.00
John F. Looney.....	7.25
Carl O. Seaman.....	16.35

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 \$53.59

## PRINTING AND STATIONERY.

John B. Clarke Co., printing.....	\$386.41
George D. Fitts, books and stationery.....	5.40
W. P. Goodman, stationery.....	17.22
Johnson's Bookstore, index cards.....	2.50
L'Avenir National, advertising bids.....	5.40
E. A. Stratton Co., tags.....	4.50
Union-Leader Publishing Co., publishing notices .....	23.09

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 \$444.52

## OFFICE EXPENSES AND SUPPLIES.

American Express Co., charges.....	\$6.85
W. B. Blake, registration of automobiles, four chauffeur licenses, and repairing hinge .....	34.25
Brodie Electric & Automobile Co., supplies and labor on automobile.....	81.56
Carter, Rice & Co., gummed paper.....	12.00
James S. Cavanaugh, insurance premium..	76.00
Creamery Package Manufacturing Co., fil- tering discs.....	3.07
Derryfield Company, lumber for closets...	5.75
J. Doucet & Co., antitoxin.....	6.00
Dufort's Pharmacy, 36 bottles.....	1.05
Herbert E. Dunnington, antitoxin and supplies .....	39.89
Joseph X. Duval, cash paid for supplies, etc.	57.92
A. Perley Fitch, germ destroyers.....	59.62
Charles M. Floyd, gloves, overalls and jumper .....	3.00
L. M. Folsom, crash and towels.....	3.30
M. Alma Fracker, postage, laundry, ex- press, etc.....	54.43
A. L. Franks & Co., electric supplies and labor .....	9.89

Granite State Rubber Co., hose, sheeting, gloves .....	\$13.39
Hale & Whittemore, framing map.....	2.25
C. A. Hoitt Co., carpet.....	2.25
W. R. Lightbody, M. D., diphtheria exam- inations .....	10.50
Manchester Coal & Ice Co., ice.....	48.00
Manchester Hardware Co., hardware and auto supplies.....	9.45
Manchester Traction, Light & Power Co.:	
Electric lights .....	15.58
Lamps and repairing stove.....	4.75
Manchester Water-Works, gasoline, oil, rent of garage .....	14.63
Maxwell Ice Co., ice.....	17.85
J. B. McCrillis & Son, automobile tire and case .....	31.15
A. J. McKelvie, 1 tube.....	.35
New England Telephone & Telegraph Co., service .....	96.21
People's Gas Light Co., gas.....	4.84
Schieffelin & Co., formaldehyde.....	116.00
C. O. Seaman, expenses, sundry places and auto supplies.....	29.20
A. G. Straw, M. D., diphtheria examinations	40.50
Tilton Box Co., boxes.....	12.00
John B. Varick Co., supplies.....	169.31
Walsh & Cummings, antitoxin and supplies	1,163.84
Water Commissioners, gasoline, rent of garage .....	186.49
N. J. Whalen, sponge, thermometer, 1 bag	7.75
	<hr/>
	\$2,450.87

## ISOLATION HOSPITAL.

American Printing Co., cloth.....	\$36.79
L. B. Bodwell, coal.....	250.00
C. DeMoulied & Co., stove, shades, rockers	10.60
J. H. DeCourey Coal Co., coal.....	136.76
J. M. Dery, wood and coal.....	14.25
W. E. Dunbar & Sons, coal.....	58.50
H. E. Dunnington, medicine and supplies..	94.35
C. A. & A. W. Flint, wood.....	61.75
Mrs. Selma Flodin:	
Services as matron.....	360.00
Board of patients and nurses.....	2,629.40
C. M. Floyd, bathrobes.....	10.50

L. M. Folsom, sheets, spreads, robes, cotton	\$209.53
M. Alma Fracker, paid for labor, fruit, ice cream .....	8.85
Granite State Rubber Co., rubber sheeting	9.60
James W. Hill Co., gowns, cheese-cloth, belting .....	13.66
C. A. Hoitt Co., crockery.....	13.83
Horlick's Malted Milk Co., malted milk...	20.00
T. F. Landrigan, labor on heater.....	9.60
F. D. Leighton, material and labor.....	7.60
L. A. Lockwood Co., bleached remnants....	23.63
Manchester Coal & Ice Co., coal.....	146.60
Manchester Traction, Light & Power Co.:	
Electric lights.....	194.81
Lamps .....	10.50
Joseph Marcoux, care of heater.....	29.59
New England Telephone & Telegraph Co., service .....	64.28
F. E. Nelson Co., crockery and socks.....	8.46
J. P. Russell, coal.....	6.50
James A. Scully, mattresses and tables...	23.17
C. O. Seaman, expenses to Haverhill and Durham .....	4.79
A. D. Sherer, labor.....	12.00
Water Commissioners, use of water.....	51.70

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 \$4,531.60

## PEST HOUSE.

J. H. DeCourcy Coal Co., coal.....	\$69.35
J. M. Dery, wood .....	4.75
W. E. Dunbar & Sons, coal.....	8.25
C. A. & A. W. Flint, wood.....	6.00
Manchester Coal & Ice Co., coal.....	9.00
Manchester Hardware Co., brimstone....	2.00
Manchester Traction, Light & Power Co., electric lights .....	33.81
New England Telephone & Telegraph Co., use of telephone.....	21.20
Mrs. Mary Rowe, services.....	21.42
Mrs. A. D. Sherer, services and board of patients .....	655.99
A. D. Sherer, labor.....	517.87
Water Commissioners, use of water.....	6.40
Maurice Watson, M. D., visits and vaccinations .....	973.05
Walsh & Cummings, vaccine points.....	1.00

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 \$2,330.03

NURSES AT ISOLATION HOSPITAL.

Margaret J. Bruce.....	\$1,092.00	
Lucy Cronin .....	246.00	
Mary V. Dolan.....	93.00	
Mary R. Kinneen.....	42.00	
Katherine Lehan.....	807.00	
Mary V. Lee.....	510.00	
Katherine Lowe .....	24.00	
Emma McPartland .....	45.00	
Grace Pierson.....	60.00	
Marion F. Short.....	30.00	
		\$2,949.00

MEDICAL INSPECTORS.

W. L. Biron, M. D.....	\$476.30	
Clarence O. Coburn, M. D.....	486.45	
R. H. Dillon, M. D.....	506.40	
Frank N. Rogers, M. D.....	454.25	
Zatae L. Straw, M. D.....	467.90	
E. C. Tremblay, M. D.....	484.35	
		\$2,875.65

SUNDRIES.

C. M. Bailey, V. S., examination of horse for glanders .....	\$2.00	
Eugene G. Dubois, groceries.....	25.84	
W. E. Dunbar & Sons, coal and wood.....	3.25	
Dutton Street Market, groceries.....	17.24	
		\$48.33

Total expenditures.....	\$21,473.61
Transferred to new account.....	4,000.00
Transferred to unappropriated money.....	1,026.39
	\$26,500.00

City Library.

Appropriation .....	\$12,500.00
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## EXPENDITURES.

## LIBRARIAN AND ASSISTANTS.

F. Mabel Winchell, librarian.....	\$1,000.00
Ruth H. Bartlett.....	505.75
Everett Beane.....	79.70
Arthur B. Blaine.....	2.50
M. Nellie Brooks.....	123.50
Caroline B. Clement.....	533.75
Ruth Dudley.....	405.75
Rachel Flint.....	341.17
Margaret Grant.....	444.24
Mildred Gonyeau.....	16.40
C. F. Hamer.....	18.75
Maria F. Kidder.....	383.25
Gladys Lane.....	295.25
Max McConachie.....	185.70
Ralph M. Page.....	105.00
Albro P. Reed.....	36.25
Una Vincent.....	358.58
Clara G. Wilson.....	390.75
Mrs. A. F. Wheat.....	78.57
Iva M. Young.....	44.00
	<hr/>
	\$5,348.86

## INSURANCE, FUEL, LIGHTS, TELEPHONE, WATER.

Clarence M. Edgerly, insurance premium..	\$125.00
Manchester Traction, Light & Power Co.:	
Electric lights.....	431.71
Lamps and plugs, etc.....	38.50
Moore & Preston Coal Co., coal.....	555.50
New England Telephone & Telegraph Co., use of telephone.....	30.05
People's Gas Light Co., gas.....	41.69
Water Commissioners, use of water.....	12.75
	<hr/>
	\$1,235.20

## SUNDRIES.

F. J. Barnard & Co., supplies and binding..	\$188.99
The Barton Co., cloth, etc.....	4.19
Bay State Paper Co., paper.....	19.80
Bicknell & Fuller Paper Box Co., boxes....	19.50
R. R. Bowker Co., 1 subscription.....	2.00
Frank R. Brown, weighing coal.....	5.00

City News Co., Boston Herald and Transcript, 1 year .....	\$12.12
John B. Clarke Co.:	
Printing 400 reports.....	17.35
Daily Mirror, 1 year.....	5.00
Herbert M. Corning, trucking books.....	8.00
The Dartmouth, Inc., 1 subscription.....	3.00
The Dartmouth Jack o' Lantern, subscription and back numbers.....	4.25
The Dramatist, current subscription and 4 bound volumes.....	6.00
Farrell Brothers, electric material and labor	17.37
George D. Fitts, stationery, etc.....	84.93
Gaylord Brothers, clamp, glue, daters, etc.	27.19
Herman Goldberger, periodicals.....	462.08
C. C. Hagar Co., ink and pads.....	6.80
Gustave Hecker, services as janitor.....	780.00
W. P. Goodwin, stationery.....	4.65
J. G. Jones, trucking books.....	18.71
Library Art Club:	
Entrance fee.....	5.00
Yearly assessment.....	6.00
Library Bureau, supplies.....	117.13
Maxwell Ice Co., ice.....	5.22
J. H. Mendell Co., lumber.....	7.08
Monitor & Statesman Co., 1 subscription..	6.00
J. E. Post, brushes.....	4.00
Charles W. Powell, material and labor....	5.93
Remington Typewriter Co., 3 No. 10 Smith Premier typewriters .....	270.00
Riley & Sanborn, typewriter ribbons.....	7.00
The Records of the Past Exploration Society, records.....	25.00
A. Storrs & Bement Co., paper.....	40.90
Temple & Farrington Co., sewing and re-binding, and boxes.....	435.51
Trustees of Library, appropriation for books .....	2,500.00
Underwood & Underwood, pictures and stereoscopes .....	252.15
University of Chicago Press, books.....	11.25
John B. Varick Co., brooms, hooks, "dust-bane," etc.....	29.74
Ward's, labels, and typewriting labels....	43.00
White. Son Company, book binder materials	47.28
J. Arthur Williams, paper, and printing...	197.95

FIRE DEPARTMENT.

113

F. M. Winchell, cards, expenses to sundry cities .....	\$100.24	
H. W. Willson Co., subscriptions, and 1,000 copies fiction catalogue .....	102.00	
		<u>\$5,915.31</u>
Total expenditures.....		\$12,499.37
Transferred to unappropriated money.....		.63
		<u>\$12,500.00</u>

Fire Department.

Appropriation .....	\$135,688.00
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EXPENDITURES.

SERVICES.

Thomas W. Lane, chief engineer.....	\$2,200.00	
Thomas F. Fitzsimmons, assistant engineer .....	300.00	
Edwin W. Merrill, clerk and assistant engineer .....	375.00	
Arthur Provost, assistant engineer.....	300.00	
John F. Seaward, assistant engineer.....	300.00	
		<u>\$3,475.00</u>

TEAMSTERS' AND ENGINEER'S PAY-ROLL.

January .....	\$5,351.15	
February .....	5,379.46	
March .....	5,498.63	
April .....	5,459.56	
May .....	5,459.06	
June .....	5,401.38	
July .....	5,697.06	
August .....	5,743.22	
September .....	5,606.13	
October .....	5,564.04	
November .....	5,535.46	
December .....	5,501.52	
		<u>\$66,196.67</u>

CALL MEMBERS.

Engine Company No. 1.....	\$1,344.00
Engine Company No. 2.....	1,344.00

Engine & Ladder Company No. 3.....	\$2,858.00	
Engine Company No. 4.....	1,344.00	
Engine & Ladder Company No. 5.....	2,858.00	
Engine & Ladder Company No. 6.....	2,858.00	
Engine Company No. 7.....	2,858.00	
Chemical Engine Company No. 1.....	390.00	
Combination Company No. 2.....	1,344.00	
Aerial Truck Company No. 1.....	1,720.00	
Hose Company No. 1.....	1,156.00	
Hose Company No. 2.....	1,156.00	
Hose Company No. 3.....	1,156.00	
	<hr/>	\$22,386.00
William Bruton.....	\$94.00	
John Knight.....	28.20	
	<hr/>	\$122.20

## OTHER LABOR.

James D. Filleul.....		\$18.73
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## LAUNDRY.

M. P. Collins.....	\$26.50	
Frank C. Curtis.....	22.15	
Marion R. Laird.....	106.00	
Ida N. Lane.....	1.60	
Alice S. Merrill.....	6.08	
N. H. Towel Supply Co.....	39.00	
Oneeda Laundry.....	90.60	
Mrs. C. D. Stevens.....	27.20	
Mrs. H. L. Tebbetts.....	4.15	
	<hr/>	\$323.28

## FURNITURE AND BEDDING.

C. DeMoulied & Co.....	\$11.00	
L. M. Folsom.....	38.89	
James W. Hill Co.....	46.70	
C. A. Hoitt Co.....	602.97	
James A. Scully.....	579.45	
	<hr/>	\$1,279.01

## PRINTING AND STATIONERY.

W. G. Chase, paper fastener.....	\$3.50
John B. Clarke Co., printing.....	287.68
George D. Fitts, guides.....	1.00
W. P. Goodman, stationery and books.....	27.12



FIRE DEPARTMENT.

115

Library Bureau, case and guides.....	\$10.00
Temple & Farrington Co., books.....	2.75

\$332.05

FUEL, LIGHTS, TELEPHONE, WATER.

Fred H. Balch, wood.....	\$4.00
L. B. Bodwell, coal.....	1,355.95
Frank Brown, weighing coal.....	20.00
J. Newell Brown, weighing coal.....	36.25
G. A. Campbell & Co., coal.....	96.00
J. H. DeCourcy Coal Co., wood.....	62.64
C. A. & A. W. Flint, wood.....	56.25
Manchester Traction, Light & Power Co., electric lights.....	600.01
Moore & Preston Coal Co., wool and coal..	2,438.50
New England Telephone & Telegraph Co., use of telephones.....	106.13
People's Gas Light Co., gas.....	446.27
E. E. Smith, wood.....	7.00
Water Commissioners, use of water.....	308.84

\$5,537.84

SUPPLIES.

Adams Brothers, cement and salt.....	\$1.83
Amoskeag Manufacturing Co., castings...	9.10
American LaFrance Fire Engine Co., Inc., rubber washer .....	.27
Annis Flour & Grain Co., 1 fastener and pull	2.00
E. E. Austin, 1 auto lighting battery.....	22.67
Auto-Tire Vulcanizing Co., 2 vulcanizers, etc. ....	188.00
C. A. Bailey, curbing.....	4.18
Boston Belting Co., valves and hose washers	20.84
Brewer & Co., "Volki".....	14.40
Boston Woven Hose & Rubber Co., hose...	595.00
Brodie Electric & Automobile Co., two bat- teries .....	1.50
Cornelius Callahan Co., supplies.....	1,615.98
Combination Ladder Co. & Rhode Island Coupling Co., hose.....	450.00
Cornplanter Refining Co., oil.....	65.55
S. H. Couch Co., cords.....	2.45
Elliott Manufacturing Co., waste.....	6.00
Frank E. Fitts Manufacturing & Supply Co., waste .....	43.63

Fisk Rubber Co., supplies and repairs.....	\$114.25
A. L. Franks & Co., electrical supplies....	15.84
Granite State Rubber Co., matting and packing .....	3.65
Gulf Refining Co., gasoline.....	91.02
C. R. Hammond, oil and gasoline.....	2.40
F. S. Hardy & Co., supplies.....	350.49
John D. Healy, labor on weights.....	3.00
Heaney Manufacturing Co., soap.....	4.00
J. C. Higgins, springs.....	35.00
J. Hodge, lumber.....	91.00
Independent Oil Co., kerosene oil.....	5.85
Kennedy & Peterson Construction Co., 6 coal boxes .....	36.00
Keezer Metal Polish Co., polish.....	9.00
Kilgore Manufacturing Co., absorbers and hangers .....	90.00
Knight & Thomas, 1 extinguisher.....	25.00
O. F. Kress & Son, bottles and extinguisher heads .....	17.00
Knox Automobile Co., supplies.....	25.92
Larkin Manufacturing Co., 1 hose clamp...	15.85
F. T. Lord Polish Co., polish.....	30.00
Manchester Street Railway, 1 trolley wheel	1.15
Manufacturers Sales Agency, Inc., disinfec- tant .....	24.00
New Departure Manufacturing Co., 1 fire bell .....	20.70
Parnell Brothers, soap.....	59.25
Piper & McIntire, 1 Rambler automobile for Chief Lane.....	1,924.00
The Robinson Fire Apparatus Manufactur- ing Co., 1 city service auto ladder truck, less old ladder truck.....	6,450.00
James A. Scully, polish.....	.50
Standard Oil Co., gasoline.....	97.16
Stark Mills, duck.....	7.30
Stuart-Howland Co., electrical supplies....	11.70
Talbot Dyewood & Chemical Co., oil vitriol	31.53
J. F. Thomson, oil.....	6.00
John B. Varick Co., hardware, etc.....	1,330.93
John B. Varick Co., hose.....	2,750.00
Mitchell Wing & Co., supplies.....	3.00
Winchester Tar Disinfectant Co., disinfec- tant .....	26.95
Western Union Telegraph Co., clock rental	4.00

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 \$16,756.84

FIRE DEPARTMENT.

117

REPAIRS, ETC.

A. L. Franks & Co., material and labor....	\$34.47
James W. Hill Co., repairing flag.....	.25
H. J. Lawson, material and labor.....	48.11
Manchester Machine Works, material and labor .....	28.85
Manchester Nickel Plating Co., nickel plating .....	.85
Manchester Welding Co., labor.....	9.00
Pike & Heald Co., pipe and repairs.....	34.45
Harry A. Piper, filing saws.....	1.50
S. Sandberg, labor.....	1.95
John H. Stevens, valves.....	.50
West Side Lumber Co., lumber.....	6.04

\$165.97

HORSES, VETERINARY SERVICES AND MEDICINE.

F. T. Arbuckle, V. S., professional services	\$206.85
Leo A. Cavanaugh, 1 horse.....	325.00
Cavanaugh Brothers, 1 horse.....	355.00
Cavanaugh Brothers, use of horse.....	21.00
Frank J. Clark, V. S., professional services	23.00
Daniels-Cornell Co., 1 horse.....	362.50
Dyer & Chipman, supplies.....	45.59
John Hurley, use of stall for lame horse..	2.00
Manchester Rendering Co., 2 horses.....	650.00
E. R. Monette, liniment.....	7.50
Walsh & Cummings, medicine.....	1.83

\$2,000.27

ENGINE REPAIRS.

S. P. Dodge Co.....	\$41.00
J. B. Filleul.....	43.25
J. B. Filleul & Son.....	1,600.00
H. J. Lawson.....	96.84
Manchester Machine Works.....	2,328.64
J. B. McCrillis & Son.....	1,982.09
H. E. Netsch.....	4.00
Sanborn Carriage Co.....	129.48

\$6,225.30

BLACKSMITHING.

Connor & Grossman.....	\$38.50
P. J. Connor.....	17.50

H. J. Dexter.....	\$13.00	
Dexter & Colby.....	11.50	
Frank Dupont.....	236.05	
J. D. French.....	35.00	
L. M. George.....	234.55	
Joseph Marcoux.....	165.40	
J. F. McDonald & Co.....	525.00	
MacDonald Brothers.....	211.20	
John Stack.....	49.75	
L. P. Tremblay.....	202.25	
L. P. Tremblay & Co.....	93.50	
G. F. Wenzel.....	7.90	
		<hr/>
		\$1,841.10

## HAY, GRAIN, ETC.

Adams Brothers.....	\$24.23	
Arthur S. Brown.....	4,957.78	
Warren J. Davis.....	81.97	
F. H. Masse & Co.....	3,064.51	
		<hr/>
		\$8,128.49

## HARNESS SUPPLIES AND REPAIRS.

Charles E. Berry.....	\$22.40	
Ranno-Speirs Co.....	19.34	
Joseph Vogel & Co.....	44.75	
N. J. Whalen.....	118.55	
		<hr/>
		\$205.04

## SUNDRIES.

Elizabeth M. Hayes, rent of barn.....	\$12.00	
E. H. Holmes, freight and cartage.....	42.89	
Thomas W. Lane, expenses to New York city, International Association Fire En- gineers.....	47.75	
Thomas W. Lane, cash paid for express and cartage.....	29.55	
McQuesten & Lewis, lunch for firemen at forest fire.....	4.07	
N. H. Rug Co., <b>cleaning and laying</b> carpets	11.35	
W. H. H. Perkins, lunch for firemen.....	2.20	
F. M. Ray, removing dead horses.....	6.00	
		<hr/>
		\$155.81

Total expenditures.....	\$135,149.30
Transferred to new account.....	208.50
Transferred to unappropriated money.....	329.90
	<hr/>
	\$135,688.00
	<hr/> <hr/>

## Fire-Alarm Telegraph.

Appropriation .....	\$7,950.00	
Transferred from unappropriated money..	167.09	
		<u>\$8,117.09</u>

## EXPENDITURES.

## LABOR.

January .....	\$285.50	
February .....	283.75	
March .....	271.50	
April .....	310.00	
May .....	217.25	
June .....	278.00	
July .....	285.00	
August .....	365.07	
September .....	455.54	
October .....	487.51	
November .....	534.55	
December .....	538.90	
		<u>\$4,312.57</u>

## SUPPLIES AND REPAIRS.

Amoskeag Manufacturing Co., bending pipe	\$5.40
Boston & Maine Railroad, freight.....	.81
George B. Cressy, paint.....	4.19
A. L. Franks & Co., electric supplies and labor .....	603.56
Gamewell Fire-Alarm Telegraph Co., alarm boxes and supplies .....	1,150.95
W. P. Goodman, books and stationery.....	18.25
Elizabeth M. Hayes, barn rent.....	24.00
J. Hodge, lumber and labor.....	477.09
C. A. Hoitt Co., chair, mat, mirror.....	19.50
F. S. Hardy & Co., supplies.....	46.91
T. F. Landrigan, labor.....	1.40
Manchester Traction, Light & Power Co., cross arms, insulators, electricity.....	94.64
Manchester Nickel Plating Co., nickel plating .....	.80
J. B. McCrillis & Son, material and labor..	12.05
MacDonald Brothers, wedges.....	.40
J. H. Mendell Co., beams.....	6.85
New Departure Manufacturing Co., 1 fire bell .....	18.80

New England Telephone & Telegraph Co., use of telephone.....	\$22.25	
George L. Osgood, 1 Pittsburg typewriter..	50.00	
Pike & Heald Co., material and labor.....	21.98	
Ranno Saddlery Co., lineman's belt and strap .....	2.60	
Sanborn Carriage Co., wedges, bolts, etc...	11.00	
S. Sandberg, use of lathe, etc.....	2.55	
John H. Stevens, supplies.....	28.34	
Stuart-Howland Co., electric supplies.....	119.47	
John B. Varick Co., hardware.....	279.13	
Western Electric Co., supplies.....	702.30	
J. Arthur Williams, blank books, rubber stamps, etc.....	36.90	
		<u>\$3,762.12</u>
SUNDRIES.		
E. H. Holmes, freight and cartage.....	\$22.40	
James W. Richards, use of wagon.....	20.00	
		<u>\$42.40</u>
Total expenditures.....		<u><u>\$8,117.09</u></u>

### Hydrant Service.

Appropriation .....	<u>\$23,525.00</u>
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#### EXPENDITURES.

Water Commissioners, hydrant rental.....	<u><u>\$23,525.00</u></u>
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### Police Commission.

Balance from last year unexpended.....	\$400.00	
Appropriation .....	82,592.32	
		<u><u>\$82,992.32</u></u>

#### EXPENDITURES.

#### SERVICES.

Michael J. Healy, chief of police.....	\$3,000.00
John F. Cassidy, deputy chief.....	1,800.00

## POLICE COMMISSION.

121

John F. Griffin, clerk.....	\$1,186.25	
George A. Blanchet, commissioner.....	66.67	
Peter A. Farrell, commissioner.....	66.67	
Thomas R. Varick, commissioner.....	100.00	
E. Bernette Brown, police matron.....	547.50	
Regular and special police.....	68,120.89	
		<hr/>
		\$74,887.98

## FEEDING PRISONERS.

Napoleon Daigle.....	\$1.26	
National Biscuit Co.....	53.66	
Syndicate Cafe.....	382.00	
		<hr/>
		\$436.92

## PRINTING AND STATIONERY.

John B. Clarke Co., printing.....	\$156.25	
W. P. Goodman, stationery and books.....	100.55	
Temple & Farrington Co., books and binding	22.75	
		<hr/>
		\$279.55

## TELEPHONE AND TELEGRAPH.

New England Telephone & Telegraph Co., use of telephones.....	\$181.39	
Western Union Telegraph Co., telegrams and clock rental.....	14.40	
		<hr/>
		\$195.79

## PATROL SYSTEM EXPENSES.

Adams Brothers, hay and grain.....	\$247.71	
Automatic Time Stamp Co., supplies.....	5.50	
Beauregard & Brady, 3 tires.....	26.00	
George Blanchet, insurance premium.....	175.00	
Boston & Maine Railroad, freight.....	3.81	
Arthur S. Brown, hay and grain.....	18.15	
Connecticut Telephone & Electric Co., sup- plies .....	2.91	
Cygnat Boat Club, 1 pair oars.....	2.50	
Daniels-Cornell Co., soap .....	4.00	
H. B. Dunton, V. S., services and medicine	28.50	
The Esterline Co., controller, brushes and holders .....	12.80	
Fiske Tire Co., 1 case, less tires returned..	28.34	
Fiske Rubber Co., 2 B. O. cases.....	104.25	

C. M. Floyd, belts and sticks.....	\$249.50
W. J. Freeman, horse hire.....	9.00
L. M. George, horseshoeing.....	115.10
Gray & Davis, glasses.....	3.72
Granite State Rubber Co., matting, air pil- low, blankets.....	8.35
Abraham Green, rent of shed.....	60.00
Gulf Refining Co., gasoline and kerosene..	214.55
James Harlan, labor on wires.....	10.00
F. D. Harper, batteries.....	33.00
Hendee Manufacturing Co., supplies.....	45.25
James W. Hill Co., sheets, slips, blankets..	14.26
W. S. Holt & Son, cheese-cloth.....	22.40
A. P. Hermsdorf, use of horse, Columbus Day .....	3.00
Independent Oil Co., grease and gasoline..	37.75
L. S. Knowlton, use of team and clipping horse .....	5.00
Knox Automobile Co., supplies.....	23.40
J. B. McCrillis & Son, 6 Fiske casings.....	473.67
Mitchell Manufacturing Co., badges.....	17.50
J. J. Moreau & Son, 12 cups.....	1.28
James Murphy, painting and varnishing auto patrol.....	45.00
Neostyle Company, paper, pads, ink.....	112.58
Paige, Myrick & Co., gold-plated badge....	3.50
Charles E. Perry Co., register paper.....	36.26
Frederick Pearce Co., supplies and repairs	95.50
Red Arrow Garage, recharging batteries..	9.45
J. W. Richards, use of team.....	2.00
Standard Thermometer Co., 1 garage pump	85.00
The Texas Company, gasoline and kerosene	184.25
United Electric & Apparatus Co., repairs and supplies .....	2.57
Vacuum Oil Co., oil.....	11.62
Western Electric Co., supplies.....	104.56
N. J. Whalen, harness and repairs.....	61.10

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 \$2,759.59

## HARDWARE AND REPAIRS.

Ashley A. Amlaw, pipe and cutting.....	\$5.45
T. J. Briggs, solder, gasoline, labor.....	1.20
Peter Harris & Son, 1 key.....	.20
Manchester Machine Works, making bolt, ' etc. ....	.98



## POLICE STATION.

123

Manchester Nickel Plating Co., nickel plating .....	\$6.00	
Manchester Welding Co., welding.....	5.95	
Pike & Heald Co., pipe and labor.....	8.80	
Sanborn Carriage Co., repairs.....	5.30	
F. P. Sullivan, labor on wires.....	68.00	
John B. Varick Co., hardware.....	345.47	
		<hr/>
		\$447.35

## SUNDRIES.

M. J. Healy, expenses incurred attending Convention of International Chiefs of Police at Washington, D. C.....	\$100.00	
M. J. Healy, cash paid for express, postage and sundries .....	36.08	
Nellie Hardy, caring for lost children.....	48.00	
E. S. Leslie, photographing criminals.....	50.00	
		<hr/>
		\$234.08

Total expenditures.....		\$79,241.26
Transferred to unappropriated money.....		3,751.96
		<hr/>
		\$82,992.32
		<hr/> <hr/>

## Police Station.

Appropriation .....	\$3,000.00	
Transferred from unappropriated money..	76.57	
		<hr/>
		\$3,076.57
		<hr/> <hr/>

## EXPENDITURES.

## SERVICES.

Frank P. Wiggin, janitor.....		\$821.25
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## FUEL, LIGHTS, WATER.

L. B. Bodwell, coal.....	\$471.92
J. N. Brown, weighing coal.....	17.50
F. R. Brown, weighing coal.....	2.50
J. H. DeCourcy Coal Co., wood.....	27.26
Manchester Traction, Light & Power Co., electric lights .....	292.82
Maxwell Ice Co., wood.....	7.00
Moore & Preston Coal Co., coal.....	973.04

People's Gas Light Co., gas.....	\$64.57	
Water Commissioners, use of water.....	145.30	
		<u>\$2,001.91</u>

SUNDRIES.

C. W. Anderson & Co., repairing clock.....	\$0.75	
C. H. Dennis, material and labor.....	20.00	
A. L. Franks & Co., lamps, etc.....	60.83	
John B. Hall Co., supplies.....	20.65	
Manchester Traction, Light & Power Co., lamps, 1910.....	3.06	
J. J. Moreau & Son, soldering.....	.35	
N. H. Towell Supply Co., laundry work....	70.17	
Pike & Heald Co., tubing.....	.10	
James A. Scully, mattresses.....	14.50	
Western Union Telegraph Co., clock rental	3.00	
Worrell Manufacturing Co., "Vermin O Go"	60.00	
		<u>\$253.41</u>

Total expenditures.....		<u><u>\$3,076.57</u></u>
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**Police Court.**

Appropriation .....	<u><u>\$3,200.00</u></u>
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EXPENDITURES.

SERVICES.

Harry E. Loveren, police justice.....	\$750.00	
Frank C. Livingston, associate justice.....	150.00	
John C. Bickford, clerk.....	300.00	
John C. Bickford, probation officer.....	144.00	
		<u>\$1,344.00</u>

SUNDRIES.

John B. Clarke Co., printing dockets.....	\$13.50	
M. J. Healy, witness fees paid.....	261.82	
New England Telephone & Telegraph Co., use of telephone.....	24.50	
E. A. Stratton Co., printing.....	29.00	
Temple & Farrington Co., book.....	.50	
J. Arthur Williams, printing.....	4.00	
		<u>\$333.32</u>

Total expenditures.....		<u><u>\$1,677.32</u></u>
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Transferred to subway comfort account.....	\$500.00
Transferred to unappropriated money.....	1,022.68
	<hr/>
	\$3,200.00
	<hr/> <hr/>

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**Repairs of Public Buildings.**

Appropriation .....	\$19,975.00	
Appropriation by resolution, October 24....	2,600.00	
	<hr/>	\$22,575.00
		<hr/> <hr/>

EXPENDITURES.

LABOR.

January .....	\$529.56	
February .....	602.56	
March .....	619.07	
April .....	779.88	
May .....	591.84	
June .....	556.32	
July .....	606.77	
August .....	655.79	
September .....	687.28	
October .....	511.84	
November .....	574.36	
December .....	572.92	
	<hr/>	\$7,288.19

SUNDRIES.

J. J. Abbott, paint.....	\$43.75
American Locomotive Co., calking tank, castings .....	21.75
Amoskeag Manufacturing Co., castings....	107.60
Annis Grain & Lumber Co., boards and plan- ing .....	28.62
C. A. Bailey, curbing .....	4.60
Napoleon Barron, labor.....	9.00
Hugh Barnes, repairing plastering.....	15.00
Boston & Maine Railroad, freight.....	1.19
Brodie Electric & Automobile Co.:	
Second payment on truck.....	1,175.00
Supplies .....	67.50
Arthur S. Brown, cement and lime.....	64.90
Bunton & Bernard, masonwork.....	16.82

F. D. Cook Lumber Co., lumber.....	\$101.40
Dalton-Ingersoll Manufacturing Co., closet valves .....	1.55
Joel S. Daniels, paint, paper, lettering signs	20.83
Derryfield Company, glass.....	4.00
S. P. Dodge Co., material and repairs.....	89.12
Drew Machinery Agency, material and labor .....	4.15
F. E. Dupont, blacksmithing.....	15.80
Farrell Brothers, electric supplies and repairs .....	140.94
A. L. Franks & Co., electric supplies and labor .....	160.09
Harry S. Foster:	
Registration of automobile and license for truck .....	22.50
Payment of laborers and for turn buckles	22.15
L. M. George, blacksmithing.....	52.75
Gulf Refining Co., gasoline.....	127.61
Robert J. Hayes, insurance premium.....	254.07
J. Hodge, lumber, etc.....	955.43
E. H. Holmes, teaming.....	4.00
Hubbard Sash & Blind Factory, wood and labor .....	32.88
E. & F. King & Co., paint.....	7.50
Arthur P. Knapp, extension fire escape, City Hall .....	73.86
H. J. Lawson, iron sky light, making and erecting smoke pipe, etc.....	136.46
F. X. Laflamme, masonwork.....	5.40
J. W. Lindsay, iron, cement, labor.....	81.97
Manchester Cement Block & Concrete Co., cement floor .....	17.61
Manchester Machine Works, material and labor .....	72.84
Manchester Nickel Plating Co., plating....	7.15
Manchester Street Railway, tickets.....	120.00
Manchester Supply Co., pipe, valves, etc....	545.11
Mahoney Fountain Co., sink bubblers.....	11.45
A. M. Marr, masonwork.....	19.20
J. H. Mendell Co., lumber, etc.....	98.27
John Muir, lumber.....	467.92
C. F. McDonald, plumbing supplies.....	10.02
New England Telephone & Telegraph Co., service .....	83.69
F. L. Noyes, roofing material and labor....	743.23

F. F. Osgood, leather, rubber tubing.....	\$2,28	
Pike & Heald Co., plumbing, steamfitting, etc. ....	1,528.08	
People's Gas Light Co., gas.....	5.39	
Partridge Brothers, cement .....	2.40	
A. L. Perry, masonwork.....	75.88	
Fred L. Peaslee, cleaning vault.....	1.00	
Michael Quinn, cleaning vaults.....	20.00	
Elmer E. Reed, masonwork.....	297.10	
Edward Sargent, repairing locks.....	2.65	
Thomas Smith, use of boat.....	2.50	
Sanborn Carriage Co., tires, iron, etc.....	165.98	
Standard Electric Time Co., discs for clock	1.50	
Standard Oil Co., tanks, oil, gasoline.....	89.85	
John Sheehan, insurance premium.....	111.00	
W. A. Snow Iron Works, guards and frames	10.00	
Stark Mills, duck.....	.40	
John H. Stevens, plumbing and steamfitting	5,180.02	
George S. Trudel Co., supplies.....	13.36	
G. W. Van Auken, 1 whistle.....	3.50	
John B. Varick Co., supplies.....	1,133.98	
Water Commissioners, use of water.....	24.00	
West Side Lumber Co., lumber.....	504.49	
G. F. Wenzel, iron work.....	5.25	
L. B. Wilson, metal.....	10.56	
N. J. Whalen, 1 belt.....	.50	
		<hr/>
		\$15,258.35
Total expenditures.....		<hr/>
		\$22,546.54
Transferred to unappropriated money.....		28.46
		<hr/>
		\$22,575.00
		<hr/> <hr/>

West Manchester Engine House.

Balance from last year unexpended.....	\$24,130.00	
Appropriation by resolution, September 16	5,000.00	
Received from sale of land.....	500.00	
		<hr/>
		\$29,630.00
		<hr/> <hr/>

EXPENDITURES.

LAND.

Frank W. Bond & Cora F. Boston, 7,993.9 square feet of land .....	\$800.00
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## ARCHITECT.

William M. Butterfield, revised drawings and specifications .....	\$159.40
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## CONTRACT.

Kennedy & Peterson Construction Co., first and second payment on account.....	\$13,200.80
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## SUNDRIES.

American LaFrance Fire Engine Co., Inc., 1 combination chemical engine and city service motor hook-and-ladder truck.....	\$6,000.00
Total expenditures.....	\$20,160.20
Transferred to new account.....	9,469.80
	<u>\$29,630.00</u>

## New Fire-Alarm and Building.

Balance from last year unexpended.....	\$76,870.42
Appropriation .....	4,041.80
Cash for reels returned American Steel & Wire Company .....	632.00
	<u>\$81,544.22</u>

## EXPENDITURES.

## SUNDRIES.

American Steel & Wire Co., wire.....	\$18,901.35
Boston & Maine Railroad, freight.....	50.79
A. L. Franks & Co., extra work.....	200.00
C. H. French, traveling expenses to factory at Worcester, Mass., to make inspection .....	4.50
The Gamewell Fire-Alarm Telegraph Co., fire-alarm equipment .....	30,000.00
E. H. Holmes, truckage.....	60.00
J. H. Mendell Co., balance contract for building .....	21,958.00
New England Telephone & Telegraph Co., placing under ground conduit and pulling in cable.....	2,503.12

T. Raiche, contract for plumbing, heating, and gas piping.....	\$4,315.00	
C. R. Whitcher, plans and specifications...	495.33	
		\$78,488.09
Total expenditures.....		\$78,488.09
Transferred to new account.....		3,056.13
		\$81,544.22

**New Schoolhouse.**

Appropriation .....	\$391.52
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EXPENDITURES.

SUNDRIES.

C. A. Bailey, curbing, Maynard schoolhouse	\$221.52	
Murdock-Reed Co., 2 bronze tablets, May- nard and Brown schoolhouse.....	170.00	
		\$391.52
Total expenditures.....		\$391.52

**Addition to Youngsville Schoolhouse.**

Appropriation .....	\$8,000.00
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EXPENDITURES.

SUNDRIES.

Allen Shade Holder Co., shades and holders,	\$38.96	
W. M. Butterfield, architect, services.....	242.38	
A. Dumont, contract for building.....	6,925.00	
A. Dumont, extras.....	131.27	
Kenney Brothers & Wolkins, desks and chairs .....	393.70	
Robie Consolidated Concrete Co., concrete	28.87	
Sanitas Manufacturing Co., drinking foun- tain .....	18.40	
		\$7,778.58
Total expenditures .....		\$7,778.58
Transferred to unappropriated money.....		221.42
		\$8,000.00

## Care of City Clocks.

Appropriation .....		\$200.00
EXPENDITURES.		
Henry I. Lemay.....	\$91.00	
Peter J. Thornton.....	6.25	
		\$97.25
Total expenditures .....		\$97.25
Transferred to unappropriated money.....		102.75
		\$200.00

## Subway Comfort, Merrimack Common.

Appropriation .....	\$3,425.00	
Transferred from police court account....	500.00	
		\$3,925.00

## EXPENDITURES.

## CARETAKERS.

Mrs. Ida M. Beliveau .....	\$229.16	
Nellie Callahan .....	480.00	
Alderic Derome .....	600.00	
Marion S. Goings .....	280.00	
Curtis Joyal .....	200.00	
Timothy Sullivan .....	600.00	
		\$2,389.16

## SUNDRIES.

The Barton Company, towels.....	\$11.67	
L. B. Bodwell, coal.....	139.00	
E. M. Bryant & Co, fuses.....	.40	
C. A. Hoitt Co., 1 rug.....	1.98	
J. G. Jones, freight and cartage.....	.91	
James S. Kirk & Co., soap.....	17.50	
Manchester Dry Goods Co., towels.....	9.58	
Manchester Traction, Light & Power Co.:		
Electric lights .....	172.48	
Lamps .....	19.20	
Moore & Preston Coal Co., coal.....	37.40	
Orona Manufacturing Co., soap.....	2.50	



Palmer & Garmon, cutting, lettering and gilding slabs .....	\$67.50	
People's Gas Light Co., gas.....	59.40	
Pike & Heald Co., rubber plunger.....	1.00	
W. A. Snow Iron Works, 2 gates and erect- ing same .....	95.00	
John H. Stevens, brush and labor.....	1.40	
John B. Varick Co., supplies.....	318.14	
Water Commissioners, use of water.....	516.20	
West-Disinfecting Co., disinfectant.....	30.00	
		<u>\$1,501.26</u>
Total expenditures .....		\$3,890.42
Transferred to unappropriated money.....		34.58
		<u><u>\$3,925.00</u></u>

Water-Works.

Balance from last year unexpended.....	\$19,476.22	
Cash received for water rents.....	164,798.26	
		<u>\$184,274.48</u>

EXPENDITURES.

LABOR.

January .....	\$3,834.02	
February .....	2,918.45	
March .....	2,919.90	
April .....	3,663.55	
May .....	3,126.99	
June .....	3,324.53	
July .....	4,767.18	
August .....	3,795.60	
September .....	4,149.20	
October .....	3,143.48	
November .....	2,981.90	
December .....	2,758.34	
		<u>\$41,383.14</u>
D. F. Cronin .....	\$16.20	
E. E. Hoyt.....	521.35	
Elmer Hoyt .....	1,588.26	
J. H. & B. H. Stone.....	136.85	
		<u>\$2,262.66</u>

## SUPERINTENDENT AND WATER COMMISSIONERS.

James H. Mendell, salary as superintendent	\$2,500.00	
W. G. Africa, 14 meetings of board.....	70.00	
Perry H. Dow, 12 meetings of board.....	60.00	
Charles M. Floyd, 15 meetings of board....	75.00	
Edgar J. Knowlton:		
14 meetings of board.....	70.00	
Salary as clerk of board.....	100.00	
Charles H. Manning, 26 meetings of board	130.00	
Robert E. McKean, 14 meetings of board..	70.00	
		\$3,075.00

## PRINTING, ADVERTISING, OFFICE SUPPLIES.

Burroughs Adding Machine Co., balance on exchange of machines.....	\$252.35	
E. H. Chadbourne, P. M., stamps and envelopes .....	154.80	
John B. Clarke Co.:		
Printing 600 reports.....	145.60	
Printing and advertising.....	122.11	
George D. Fitts, stationery.....	31.87	
Hale & Whittemore, 4 frames.....	4.30	
C. A. Hoitt Co., desk and chair.....	36.00	
Library Bureau, guides.....	14.00	
Manchester Union Co., advertisng.....	3.18	
A. E. Martell Co., meter and purchase book sheets .....	80.20	
Office Toilet Supply Co., service.....	9.75	
Rapid Mailing Bureau, Inc., cabinets and supplies .....	358.36	
Sampson & Murdock Co., 1 directory.....	3.00	
Star Stamp Co., 1 pad and repairs.....	1.25	
Union-Leader Publishing Co., advertising..	2.00	
J. Arthur Williams, placards.....	9.50	
		\$1,228.27

## FUEL, GAS, TELEPHONE.

L. B. Bodwell, coal.....	\$112.41	
The Carbon Coal & Coke Co., coal.....	546.70	
W. E. Dunbar & Sons, coal.....	82.75	
G. C. Gale, drawing coal.....	103.50	
W. A. Jepson, coal.....	701.24	
Louis Lambert, cutting wood.....	30.00	
New England Telephone & Telegraph Co., use of telephone.....	126.45	
People's Gas Light Co., gas.....	.55	
Zepherin Pero, chopping wood.....	21.75	
		\$1,725.35

WATER-WORKS.

133

BLACKSMITHING, EXPRESS, FREIGHT, HARDWARE.

C. H. Allyson, blacksmithing.....	\$585.34	
American Express Co., charges.....	25.45	
Boston & Maine Railroad, freight.....	3,727.67	
Manchester & Concord Express Co., charges	4.40	
Manchester Hardware Co., hardware and tools .....	243.35	
John B. Varick Co., hardware and tools....	720.93	
	<hr/>	\$5,307.14

LAND AND BUILDINGS.

Fred Borden, land.....	\$750.00	
Maggie E. Carrier, land and buildings....	3,000.00	
Harriet A. Coffin, land, on account.....	300.00	
W. H. Griffin, land.....	5,000.00	
Fanny Merrill, land.....	3,500.00	
Byron Rollins, land.....	900.00	
Harry K. Webster, land.....	600.00	
	<hr/>	\$14,050.00

SUPPLIES.

Adams Brothers, salt.....	\$0.85	
Amoskeag Manufacturing Co., supplies....	99.65	
American Locomotive Co., castings, etc....	313.24	
C. A. Bailey, broken stone.....	196.99	
Bisson & Jodoin, pails.....	9.00	
Harold L. Bond Co., supplies.....	56.52	
Board of Public Works, sewer pipe.....	26.00	
Brodie Electric & Automobile Co., re- charging battery .....	.75	
Brown-Sargent Co., oil, grease, etc.....	76.58	
E. M. Bryant & Co., electric supplies.....	30.15	
Builders Iron Foundry, supplies.....	482.25	
Cast Iron Brazing & Manufacturing Co., piston rings .....	1.00	
Chapman Valve Manufacturing Co., valves, goose necks, etc.....	578.05	
Cornplanter Refining Co., gasoline and kerosene .....	17.25	
D. M. Dillon Steam Boiler Works, 1 grate bar .....	7.30	
George W. Dodge Shoe Co., rubber boots...	24.00	
Dyer Supply Co., joint runners.....	4.72	
Forestry Commission, seedlings and trans- plants .....	123.50	

The Goodyear Tire & Rubber Co., supplies	\$131.28
Granite State Rubber Co., rubber boots, packing etc.....	85.85
Gulf Refining Co., gasoline, etc.....	395.89
Hart Packing Co., gaskets, packing, etc....	82.15
Hays Manufacturing Co., curb boxes and supplies .....	266.76
Head & Dowst Co., steam derrick, blocks, cable, etc.....	200.00
J. Hodge, grade stakes and lumber.....	10.00
A. P. Horne & Co., shrubs.....	78.00
Ingersoll-Sergeant Drill Co., supplies.....	9.50
H. J. Lawson, supplies and labor.....	129.53
Lead Lined Iron Pipe Co., pipe.....	1,585.54
Manchester Auto Garage, supplies.....	667.99
Manchester Supply Co., pipe.....	6.24
Manchester Traction, Light & Power Co., lights and power, lamps and labor.....	1,855.69
J. H. Mendell, sundry supplies.....	15.29
John Muir, lumber.....	78.27
National Meter Co., meters, etc.....	1,080.77
Neptune Meter Co., meters.....	430.00
Norwood Engineering Co., hydrants.....	375.00
Henry W. Parker, cement.....	654.45
Perry Oil Co., oil.....	247.55
Peerless Motor Car Co., spark plugs.....	6.00
Pike & Heald Co., supplies.....	20.64
Pratt & Cady Co., goose necks, etc.....	257.50
Paul Ratner, stove and pipe.....	5.75
Rensselaer Valve Co., valves.....	166.80
Red Arrow Garage, cells and connectors...	1.75
Richards & Co., lead.....	1,136.58
Rickersberg Brass Co., key stops.....	37.73
Robie Consolidated Concrete Co., sand and concrete .....	21.50
Smith Box & Lumber Co., boxes and saw- dust .....	90.25
A. P. Smith Manufacturing Co., supplies....	512.75
Snow Steam Pump Works, 1 safety plate..	12.00
Star Stamp Co., 1 branding iron.....	1.50
Standard Oil Co., gasoline, etc.....	597.13
Stewart-Warner Speedometer Corporation, supplies .....	6.85
C. D. Steele, soap.....	9.00
Sullivan Machinery Co., supplies.....	34.15
John H. Stevens, pipe, etc.....	351.24
The Texas Co., kerosene and gasoline....	77.61

WATER-WORKS.

Thomson Meter Co., meters and couplings	\$650.20
G. E. Trudell & Co., pipe, couplings, bushing	66.48
E. F. Tuson, 1 key.....	.25
U. S. Cast Iron Pipe & Foundry Co., pipe..	6,394.71
Union Water Meter Co., meters and washers .....	432.40
Henry R. Worthington, valves.....	32.00
West Side Lumber Co., lumber.....	15.85

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\$21,372.27

REPAIRS, ETC.

American Locomotive Co., labor.....	\$3.00
Bisson & Jodoin, material and labor.....	46.27
George B. Cressy, paint and labor.....	43.93
M. T. Davidson Co., repairing pump.....	20.70
S. P. Dodge Co., castings, making bolts, etc.	178.44
A. L. Franks & Co., material and labor....	8.87
Hersey Manufacturing Co., repairing meters	24.93
Manchester Welding Co., labor.....	.50
J. H. Mendell Co., material and labor.....	170.47
Manchester Machine Works, material and labor .....	93.45
Manchester Street Railway, labor.....	47.90
National Meter Co., repairing meters.....	272.62
Neptune Meter Co., repairing meters.....	58.50
F. L. Noyes, material and labor.....	53.54
H. A. Piper, filing saws.....	.45
Pittsburgh Meter Co., repairs.....	4.25
Robie Consolidated Concrete Co., repairs..	325.46
Sanborn Carriage Co., repairing auto.....	9.20
Smith & Johnson, labor on compressor....	.60
Star Stamp Co., repairing stamp.....	.50
Thomson Meter Co., repairing.....	112.29
Union Water Meter Co., repairing meters	84.25
Henry R. Worthington, repairing meters..	5.29
J. B. Wilson, repairing clock.....	.75
George E. Pearson, repairing clock.....	1.00

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\$1,567.16

SUNDRIES.

W. G. Berry, insurance premium.....	\$63.00
Town of Auburn, taxes.....	757.10
John Connolly, one-half allowance for uniform .....	50.00
D. F. Cronin, spraying trees.....	26.40
R. H. Dillon, M. D., professional services..	25.00
John W. A. Green, recording deeds.....	3.85

J. E. Holmes, dinners.....	\$33.00	
Forestry Commission, white pine trans- plants .....	50.00	
Manchester Street Railway, tickets.....	215.00	
Sarah Pennock, rent of house.....	100.00	
Ray Brook Garden Co., plants.....	8.85	
State of New Hampshire, registration of truck, and chauffeur license.....	11.00	
Sinking Fund Commissioners:		
Payment of water bonds.....	5,000.00	
Hydrant rentals.....	23,525.00	
Sinking Fund Commission, to apply on pay- ment of 1893 bonds.....	40,000.00	
G. A. Vermille Insurance Agency, insurance premium .....	40.00	
		<hr/>
		\$69,908.20
		<hr/>
Total expenditures.....		\$161,879.19
Transferred to interest account.....		21,482.50
Transferred to payment funded debt.....		712.00
Transferred to new account.....		200.79
		<hr/>
		\$184,274.48
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### Pine Grove Cemetery.

Appropriation .....	\$19,000.00	
Received from sale of bonds.....	6,700.00	
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		\$25,700.00
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### EXPENDITURES.

#### LABOR.

January .....	\$656.81	
February .....	655.37	
March .....	607.12	
April .....	1,177.70	
May .....	1,415.88	
June .....	1,399.34	
July .....	1,491.58	
August .....	1,250.15	
September .....	1,444.84	
October .....	1,145.66	
November .....	1,153.27	
December .....	884.35	
		<hr/>
		\$13,282.07

PINE GROVE CEMETERY.

137

FUEL, INSURANCE, LIGHTS, TELEPHONE, WATER.

Everett & Bunton, insurance premium.....	\$12.00	
Manchester Traction, Light & Power Co., lights at chapel.....	13.00	
New England Telephone & Telegraph Co., use of telephone.....	20.10	
Union Coal Co., coal.....	279.20	
G. A. Vermille Insurance Agency, insurance premium .....	15.00	
Water Commissioners, use of water.....	950.10	
		\$1,289.40

PRINTING AND STATIONERY.

Brown-Howland Co., document files and indexes .....	\$230.25	
E. H. Chadbourne, P. M., stamped envelopes	21.24	
John B. Clarke Co., printing.....	15.50	
C. L. Field, ledger sheets.....	7.25	
W. P. Goodman, stationery.....	2.40	
Proudfit Loose Leaf Co., supplies.....	5.90	
J. Arthur Williams, printing.....	4.50	
		\$287.04

TEAM EXPENSES.

Arthur S. Brown, grain.....	\$335.50	
Cavanaugh Brothers, 2 horses.....	550.00	
Cavanaugh Brothers, use of horse.....	72.00	
Devonshire Mills, use of horse.....	68.00	
Dexter & Colby, repairing wagon.....	7.75	
S. P. Dodge Co., repairs.....	40.15	
Golden & Darrah, veterinary services.....	25.25	
Frank Hughs, repairing harness.....	5.75	
Red Arrow Garage, labor on roller.....	7.50	
L. P. Tremblay, horseshoeing.....	31.00	
		\$1,142.90

REPAIRS AND IMPROVEMENTS.

American Express Co., charges.....	\$4.46
American Forestry Co., trees.....	110.00
Board of Public Works, sewer pipe.....	216.00
Boston & Maine Railroad, freight.....	23.56
James A. Colby, excavating vaults.....	18.00
S. P. Dodge Co., material and labor.....	25.65
J. D. French, loam.....	600.00
Frank A. Gay, labor.....	18.40

Glen Brothers, shrubs.....	\$69.30	
George A. Hackett, 52½ acres land.....	6,652.50	
A. P. Horne, shrubs, etc.....	149.25	
Manchester Supply Co., pipe.....	74.36	
The J. L. Mott Iron Works, drinking foun- tains .....	28.05	
N. E. Road Machinery Co., repairing roller	.79	
Henry W. Parker, cement.....	11.40	
Pike & Heald Co., material and labor.....	21.23	
C. O. Polson, painting fence, chapel, resi- dence and greenhouses.....	459.45	
Edgar W. Poore, paper and hanging same..	8.61	
Reade Manufacturing Co., "Herbicide".....	52.50	
Robie Consolidated Concrete Co., concrete	314.90	
Stark Mills, duck covers.....	30.20	
Standard Oil Co., gasoline.....	27.00	
R. P. Stevens, cement.....	92.34	
John H. Stevens, material and labor.....	6.16	
The Solvay Process Co., calcium chloride..	65.63	
James Thompson, loam.....	14.00	
John B. Varick Co., tools and hardware...	400.50	
West Side Lumber Co., stakes, posts, lumber .....	108.93	
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		\$9,603.17

## SUNDRIES.

J. H. Erskine, expenses attending conven- tion at Buffalo.....	\$65.00	
Edwin F. Jones, making annual report....	25.00	
Calvin R. Wood, recording.....	.91	
		<hr/>
		\$90.91
Total expenditures.....		\$25,695.49
Transferred to unappropriated money.....		4.51
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		\$25,700.00
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## Valley Cemetery.

Appropriation .....	\$5,000.00	
Cash received .....	50.00	
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		\$5,050.00
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VALLEY CEMETERY.

139

EXPENDITURES.

LABOR.

January .....	\$237.50
February .....	196.75
March .....	191.75
April .....	335.45
May .....	395.46
June .....	386.96
July .....	519.94
August .....	383.96
September .....	483.70
October .....	368.00
November .....	395.50
December .....	368.00
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	\$4,262.97

FUEL, STATIONERY, TELEPHONE, WATER.

B. J. Mack, coal.....	\$49.50
New England Telephone & Telegraph Co., use of telephone.....	26.35
Temple & Farrington Co., books.....	3.20
Water Commissioners, use of water.....	104.40
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	\$183.45

TEAM EXPENSES.

Dexter & Colby, horseshoeing.....	\$11.25
H. J. Dexter, horseshoeing.....	3.50
S. P. Dodge Co., material and repairs.....	29.66
F. H. Masse & Co., grain.....	44.87
Ranno-Speirs Co., 1 collar.....	4.00
Mrs. J. C. Smith, barn rent.....	25.00
Joseph Vogel & Co., repairing harness....	3.70
Wiggin-Young Co., grain.....	23.98
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	\$145.96

REPAIRS AND IMPROVEMENTS.

C. H. Allyson, blacksmithing.....	\$2.35
Bridget Clune, dressing.....	7.00
John Francis, plants.....	5.00
J. Hodge, lumber.....	22.31
J. H. Mendell, lumber.....	9.65
H. W. Parker, cement.....	166.55
Pine Grove Cemetery, plants.....	71.80

E. C. Smith, paid for gate keys.....	\$7.20	
John B. Varick Co., hardware and tools....	60.47	
		<u>\$352.33</u>
SUNDRIES.		
H. H. Clement, typewriting.....	\$2.00	
Frank C. Livingston, salary as clerk of sub-trustees, 1912.....	10.00	
E. C. Smith, expenses attending convention at Buffalo .....	60.00	
Paid for incidentals.....	6.05	
		<u>\$78.05</u>
Total expenditures.....		<u>\$5,022.76</u>
Transferred to unappropriated money.....		<u>27.24</u>
		<u>\$5,050.00</u>

**Amoskeag Cemetery.**

Appropriation .....	<u>\$400.00</u>
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EXPENDITURES.

LABOR.

George C. Harwood .....	\$215.00	
Peter Sefton .....	18.00	
		<u>\$233.00</u>

SUNDRIES.

John Francis, plants.....	\$5.00	
Hubbard Sash & Blind Factory, plank....	4.75	
Manchester Hardware Co., tools and hard- ware .....	17.75	
James W. Richards, teams for committee..	6.00	
John B. Varick Co., sharpening mowers....	2.00	
Water Commissioners, use of water.....	24.00	
		<u>\$59.50</u>

Total expenditures.....	<u>\$292.50</u>
Transferred to unappropriated money.....	<u>107.50</u>
	<u>\$400.00</u>

**Merrill Cemetery.**

Appropriation .....	\$100.00
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## EXPENDITURES.

## LABOR.

April .....	\$7.00
June .....	10.00
July .....	11.00
September .....	7.00
October .....	13.50
November .....	9.00
December .....	42.50
	<hr/>
	\$100.00

Total expenditures.....	\$100.00
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**Printing and Advertising.**

Appropriation .....	\$700.00
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## EXPENDITURES.

## SUNDRIES.

John B. Clarke Co., printing.....	\$546.18
G. D. Fitts, paper ruled and punched.....	4.02
L'Avenir National, publishing notice.....	3.25
Union-Leader Publishing Co., publishing notice .....	14.06
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	\$567.51

Total expenditures.....	\$567.51
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Transferred to unappropriated money.....	132.49
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\$700.00
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**Books and Stationery.**

Appropriation .....	\$50.00
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## EXPENDITURES.

## SUNDRIES.

J. E. Bernier, printing cards and blanks...	\$8.25	
George D. Fitts, stationery and books.....	20.77	
Charles H. Martel, stamped envelopes.....	10.62	
Ruemely Press, printing circulars.....	5.00	
		<u>\$44.64</u>
Total expenditures .....		\$44.64
Transferred to unappropriated money.....		5.36
		<u>\$50.00</u>

## Furniture and Supplies.

Appropriation .....	\$2,000.00
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## EXPENDITURES.

## SUPPLIES.

Banker's Pen Co., pens.....	\$2.00	
E. H. Chadbourne, P. M., stamps, cards, envelopes .....	22.68	
Farrell Brothers, globes, mantles, chimneys	49.40	
George D. Fitts, stationery.....	57.11	
A. L. Franks & Co., lamps and burners....	14.80	
L. M. Folsom, ribbon.....	42.56	
W. P. Goodman, ink and directories.....	7.65	
James W. Hill Co., flags and bunting.....	29.45	
Ideal Stamp Co., stamps.....	3.20	
Herbert C. Jackson, 1 moistener.....	1.00	
Johnson's Bookstore, paper.....	2.71	
Kee Lox Manufacturing Co., carbon paper	1.25	
Carl S. Magoon, carbon paper.....	1.25	
Temple & Farrington Co., Session Laws....	2.75	
Remington Typewriter Co., 1 machine....	62.50	
John B. Varick Co., hardware and cooking utensils .....	18.59	
		<u>\$318.90</u>

## FURNITURE.

George D. Fitts, card cases (truant officer) .....	\$392.20
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FUEL.

Finney Upholstering & Window Cleaning Co., 1 pressed seat.....	\$1.00	
Fontaine, Duguay & Co., 1 desk.....	28.00	
J. Hodge, blocks for foot rests.....	9.50	
C. A. Hoitt Co., desks, chairs, tables.....	804.81	
Household Furniture Co., 1 desk.....	27.50	
Kenney Brothers & Wolkins, desks.....	241.50	
Manchester Traction, Light & Power Co., lamps and sockets.....	2.85	
People's Gas Light Co., 2 ranges.....	42.50	
C. A. Trefethen, clocks.....	12.00	
	<hr/>	\$1,561.86

SUNDRIES.

Elmer D. Goodwin, use of chairs.....	\$12.00	
J. Hodge, lumber and labor.....	27.10	
J. G. Jones, freight and cartage.....	3.25	
J. O. Turcotte, use of chairs.....	31.25	
	<hr/>	\$73.60

Total expenditures.....		\$1,954.36
Transferred to unappropriated money.....		45.64
		<hr/>
		\$2,000.00
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Fuel.

Appropriation .....	\$16,000.00	
Transferred from unappropriated money..	663.71	
	<hr/>	\$16,663.71
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EXPENDITURES.

COAL.

L. B. Bodwell.....	\$5,281.79	
J. H. DeCourcy Coal Co.....	918.16	
Moore & Preston Coal Co .....	8,976.79	
D. M. Poore Coal Co.....	345.79	
	<hr/>	\$15,522.53

WOOD.

J. H. DeCourcy Coal Co.....	\$267.05	
W. E. Dunbar & Sons.....	357.00	
Maxwell Ice Co.....	136.00	
D. M. Poore Coal Co.....	144.43	
	<hr/>	\$904.48

## SUNDRIES.

Frank R. Brown, weighing coal.....	\$46.25	
J. Newell Brown, weighing coal.....	186.25	
New England Telephone & Telegraph Co., use of telephone (C. F. Jack).....	3.20	
John H. Stevens, 1 brush.....	1.00	
		<u>\$236.70</u>
Total expenditures .....		<u><u>\$16,663.71</u></u>

## Contingent Expenses.

Appropriation .....	\$5,000.00	
Transferred from unappropriated money..	3,533.20	
		<u>\$8,533.20</u>

## EXPENDITURES.

## ELECTRIC LIGHTS, GAS, WATER.

Manchester Traction, Light & Power Co., electric lights and power.....	\$1,301.80	
People's Gas Light Co., gas.....	455.95	
Water Commissioners, use of water.....	1,543.40	
		<u>\$3,301.15</u>

## TRANSPORTATION.

Nellie K. Bates .....	\$36.00	
Edna Blood .....	222.50	
Maude E. Brown .....	52.50	
Agnes C. Bruton .....	168.00	
Curtis W. Davis .....	105.00	
Emma J. Ela .....	117.00	
J. D. French .....	2.00	
Charles I. Hardy .....	144.00	
Sadie E. Hutchinson .....	34.80	
Manchester Street Railway .....	529.60	
James W. Richards .....	4.50	
Henry K. Stein .....	340.60	
Frank E. Willey .....	797.25	
Harry J. Woods.....	75.00	
		<u>\$2,628.75</u>

## SUNDRIES.

Leslie M. Allen, posting registration cards	\$75.00
American Book Co., books.....	13.10
C. W. Bickford, expenses to Boston to secure teacher .....	1.80
C. C. Birchard & Co., books.....	1.52
Blodgett Clock Co., repairing clock.....	12.45
J. M. Bond, services in orchestra, High School graduation .....	5.00
Boston Bank Note Co., diplomas.....	102.50
City Library trustees, cards, labels, and pockets .....	15.07
A. S. Coldwell, use of chairs.....	1.00
Fred Cormier, moving settees.....	2.00
Alexander J. Demers, clerk for truant officers .....	464.12
George D. Fitts, guides.....	1.00
Carl Fischer, merchandise.....	12.19
A. L. Franks & Co., installing baloptican, and supplies.....	62.45
Gallagher Amusement Co., use of Me- chanics' Hall .....	75.00
A. L. Gadbois, use of auto for committee..	5.00
Elmer Goodwin, use of chairs.....	19.50
Gaudias Hebert, issuing labor certificates..	7.00
J. H. Hesser, engrossing diplomas.....	51.15
James W. Hill Co., bunting.....	14.62
E. H. Holmes, cartage.....	10.00
J. Hodge, 62 platforms.....	77.50
C. F. Jack, paid for cleaning, Webster school .....	14.00
A. A. Jenkins, tuning pianos.....	11.25
J. G. Jones, cartage.....	40.50
G. H. Libby, expenses, securing teachers...	36.67
H. H. McLaren, expenses, securing teachers	6.00
Joseph M. McDonough, expenses attending International Congress School Hygiene, at Buffalo .....	110.00
Amelia McWeney, rent of room for kinder- garten .....	410.40
F. S. Manter, services in orchestra, High School graduation .....	5.00
Manchester Traction, Light & Power Co., labor on flag poles.....	26.25
John Muir, lumber.....	35.49

Daniel T. Murray, labor.....	\$3.00	
New England Telephone & Telegraph Co., service .....	28.25	
Olivet Congregational Society, use of chapel	5.00	
Piper & McIntire, use of piano.....	10.00	
Putnam & Laflamme, insurance premium..	610.00	
James Ried, freight and cartage.....	6.00	
Thomas Smith, moving and setting chairs	99.12	
M. Steinert & Sons Co., tuning pianos....	30.00	
Victor E. Stevens, engrossing diplomas....	38.10	
Arthur Tessier, orchestrial services.....	3.00	
A. T. Thompson & Co., supplies.....	17.00	
J. O. Turcotte, use of chairs.....	15.50	
Tracy Musical Library, use of music.....	7.65	
John B. Varick Co., baskets, twine, etc....	3.90	
F. L. Wallace, use of chairs.....	2.25	
		\$2,603.30
Total expenditures .....		\$8,533.20

### Care of Schoolrooms.

Appropriation .....	\$15,000.00
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#### EXPENDITURES.

##### JANITORS.

John S. Avery .....	\$549.96
E. N. Baker .....	450.00
Marshall N. Badger .....	350.22
Octave Bergeron .....	499.92
John Burke .....	245.50
John Burke estate .....	54.16
Joseph H. Buffum .....	649.92
Albert H. Clement .....	50.00
C. D. Emerson .....	300.00
Sherman L. Flanders .....	399.96
Urbain Gelinat .....	499.92
Urbain Gelinat .....	45.50
William H. Newry .....	649.92
Louis Hueber .....	300.00
C. F. Jack .....	949.92
George H. Jack .....	7.50
Harvey H. Johnson .....	499.92



Mrs. F. T. Kelley .....	\$98.50
George Lawrence .....	175.00
Hugh McVicar .....	638.50
G. M. Morse .....	122.25
Robert R. Marshall .....	58.50
Michael Moran .....	234.02
Gabriel Martin .....	17.40
W. F. Henderson .....	549.96
Squire Priestley .....	569.96
Edward A. Powers .....	588.96
William J. Powers .....	600.00
Fred S. Peaslee .....	42.90
Philip Rogler .....	549.96
Denis Sullivan .....	549.96
Michael J. Talty .....	371.06
William A. Tufts .....	663.46
Fred F. Whitten .....	450.00

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 \$13,525.21

## SUNDRIES.

Amoskeag Manufacturing Co., soap.....	\$13.00
Homer M. Davis, cleaning.....	72.40
Daniels-Cornell Co., soap.....	19.90
Joel S. Daniels, floor oil and cans.....	215.46
Henry Doughty, floor sprayers, etc.....	40.03
Dustwax Manufacturing Co., "Dustwax"..	6.00
S. A. Felton & Son Co., brushes and dusters	170.38
Flash Chemical Co., soap, mops, handles, oils, etc.....	43.07
W. J. Freeman, horse hire.....	4.00
Granite State Rubber Co., basin stoppers..	1.50
W. S. Holt & Son, waste and remnants....	62.02
C. F. Jack, incidental expenses.....	115.16
J. G. Jones, freight and cartage.....	8.71
Kenney Brothers & Wolkins, inkwell covers	1.57
The La-Lo Co., 1 can "La-Lo".....	9.25
J. W. Lindsay, iron, etc., and labor.....	8.12
Manchester Hardware Co., hardware and hose .....	50.86
Manchester Traction, Light & Power Co., new pulley on flag pole.....	3.93
J. H. Marshall, supplies.....	4.60
Mrs. W. H. Marshall, cleaning.....	3.00
J. B. McCrillis & Son, 1 fire iron.....	2.57
J. J. Moreau & Son, "Dustwax".....	2.50
F. E. Nelson Co., tumblers.....	1.20

New England Telephone & Telegraph Co., use of telephone (see contingent ex- penses for January and September).....	\$17.50	
The Palami Products Co., Palami jelly....	6.50	
Sanborn Carriage Co., welding.....	1.75	
Somerville Flat Top Manufacturing Co., 12 dusters .....	6.30	
Spencer Turbine Cleaner Co., supplies....	1.35	
Standard Oil Co., liquid gloss.....	3.55	
John H. Stevens, brushes.....	1.35	
The Texas Co., kerosene oil.....	6.63	
John B. Varick Co., supplies.....	371.81	
West Disinfecting Co., disinfectant.....	166.25	
West Side Lumber Co., lumber and labor..	6.08	
		<hr/>
		\$1,448.30
Total expenditures .....		\$14,973.51
Transferred to unappropriated money.....		26.49
		<hr/>
		\$15,000.00
		<hr/> <hr/>

### Evening Schools.

Appropriation .....	\$3,000.00
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#### EXPENDITURES.

##### SALARIES.

Frances Abbott .....	\$15.00
Arthur B. Blaine .....	88.00
Arthur Benton .....	42.00
Harold C. Caine .....	55.00
Gertrude Cronin .....	87.00
Rose G. Crosby .....	36.00
Honorie J. Crough .....	66.00
Michael Coyne .....	25.00
Mabel S. Daley .....	42.00
Dean R. DeMerritt .....	7.00
John B. Donnelly .....	46.00
Joseph F. Doyle .....	37.00
Ferdinand Farley .....	142.00
Harry French .....	39.00
Roland Goodwin .....	42.00

Richard H. Horan .....	\$42.00	
Carroll S. King .....	92.00	
Robert Laing .....	42.00	
Margaret G. Linen .....	73.00	
Sarah T. Lyons .....	4.00	
Rose Mahoney .....	2.00	
James J. Mahoney .....	130.00	
Edie J. Maher .....	41.00	
Juliette Melancon .....	42.00	
Myra V. Moore .....	88.00	
Arthur P. Morrill .....	42.00	
Adelia Murphy .....	88.00	
Thomas A. McCabe, Jr.....	44.00	
Kitty F. McDonald .....	73.00	
Thomas F. Nolan .....	35.00	
Michael O'Neil .....	2.00	
Harry Pillsbury .....	40.00	
David Parker .....	12.00	
Joseph W. Russell .....	7.00	
Carlana A. Savory .....	49.00	
Minnie Sullivan .....	88.00	
Jessie P. Stevens .....	43.00	
Arthur J. Tonery .....	130.00	
Genieve B. Wilson .....	49.00	
E. B. Willand .....	176.00	
A. Charles Warner .....	42.00	
Mary D. Young .....	86.00	
		\$2,331.00

SUNDRIES.

John B. Clarke Co., printing.....	\$21.00	
Total expenditures .....	\$2,352.00	
Transferred to unappropriated money.....	648.00	
		\$3,000.00

Evening School, Mechanical Drawing.

Appropriation .....	\$300.00	
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## EXPENDITURES.

## SALARIES.

Henry W. Allen, teacher.....	\$54.00	
C. M. Curl, teacher.....	34.00	
A. F. Davis, teacher.....	34.00	
John M. Kendall, teacher.....	54.00	
		\$176.00

## SUNDRIES.

A. L. Franks & Co., mantles and chimneys	\$3.86	
Thomas Smith, moving furniture.....	12.60	
John B. Varick Co., triangles.....	11.20	
		\$27.66

Total expenditures .....		\$203.66
Transferred to unappropriated money.....		96.34
		\$300.00

**Teachers' Salaries.**

Appropriation .....	\$156,525.00
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## EXPENDITURES.

## SALARIES.

January .....	\$14,423.87	
February .....	14,506.92	
March .....	15,795.02	
April .....	11,635.73	
May .....	15,527.65	
June .....	17,848.97	
September .....	12,198.86	
October .....	16,332.45	
November .....	16,325.27	
December .....	16,386.53	
		\$150,981.27

Total expenditures .....	\$150,981.27
Transferred to unappropriated money.....	5,543.73
	\$156,525.00

## Free Text-Books.

Appropriation .....	\$10,000.00	
Transferred from unappropriated money..	99.83	
		\$10,099.83

## EXPENDITURES.

## FREE TEXT-BOOKS AND SUPPLIES.

Affleck Ruling & Stationery Co.....	\$105.59
Allyn & Bacon.....	55.40
American Book Co.....	1,755.74
Amoskeag Textile Club.....	57.28
D. Appleton & Co.....	38.98
Atkinson, Mentzer & Co.....	78.55
E. E. Babb & Co.....	1,863.06
Bausch & Lomb Optical Co.....	70.75
Barton Company .....	12.86
C. C. Birchard & Co.....	50.51
Milton Bradley Co.....	288.69
E. M. Bryant & Co.....	9.25
Clark Brothers .....	52.51
John B. Clarke Co.....	27.80
E. R. & W. P. Coburn.....	.60
C. H. Congdon.....	22.42
Joel S. Daniels.....	5.00
Oliver Ditson Co.....	4.56
Dennison Manufacturing Co.....	7.50
Dodd, Mead & Co.....	114.00
Estabrook Steel Pen Manufacturing Co....	9.00
B. F. Elwell Glue Co.....	19.27
George D. Fitts.....	590.85
A. Flanagan Co.....	53.70
A. L. Franks & Co.....	7.19
L. M. Folsom.....	18.69
Ginn & Co.....	1,422.25
Granite State Rubber Co.....	4.00
Gregg Publishing Co.....	7.30
W. P. Goodman.....	29.53
J. L. Hammett Co.....	265.65
D. C. Heath & Co.....	234.03
James W. Hill Co.....	39.32
J. Hodge.....	15.10
Houghton, Mifflin Co.....	206.84
Johnson's Bookstore.....	4.22
Kenney Brothers & Wolkins.....	253.92
W. E. King.....	28.37

L. E. Knott Apparatus Co.....	\$6.53
Little, Brown & Co.....	16.65
Maheo Publishing Co.....	1.00
Manchester Tea Co.....	4.00
McKinley Publishing Co.....	34.65
Charles E. Merrill Co.....	33.90
C. S. Magoon.....	3.50
J. J. Moreau & Son.....	18.60
Neostyle Company .....	38.45
New Century Press.....	26.75
New England Reed Co.....	225.00
F. S. Newton.....	.69
Novelty Company.....	4.10
Remington Typewriter Co.....	118.45
E. W. A. Rowles.....	5.85
B. H. Sanborn & Co.....	124.15
Sibley & Co.....	11.81
Silver, Burdett & Co.....	316.93
Scott, Foresman & Co.....	7.55
Charles Scribner's Sons.....	140.98
Standard Book Co.....	48.50
H. M. Stephens.....	20.30
E. F. Tuson.....	1.55
Underwood Typewriter Co.....	2.00
D. Van Nostrand Co.....	74.21
John B. Varick Co.....	55.12
Wadsworth, Howland & Co., Inc.....	29.84
Walsh & Cummings.....	53.10
J. Arthur Williams.....	3.00
J. M. Woods & Co.....	67.13
Mrs. J. R. Zmunt.....	113.25
	<hr/>
	\$9,215.07

## SUNDRIES.

County of Hillsborough, rent of office.....	\$10.00
J. G. Jones, freight and cartage.....	142.26
Fannie L. Sanborn, superintendent's clerk	732.50
	<hr/>
	\$884.76
	<hr/>
Total expenditures.....	\$10,099.83
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## Manual Training.

Appropriation .....	\$400.00
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## REPAIR OF SCHOOL FURNITURE.

153

## EXPENDITURES.

## SUNDRIES.

Concord Hardware Co., supplies.....	\$9.98	
Eugene Dietzgen Co., supplies.....	26.04	
A. L. Franks & Co., electric supplies and labor .....	42.54	
J. L. Hammett Co., drawing paper.....	2.20	
Huther Bros. Saw Manufacturing Co., Inc., saws .....	24.35	
J. G. Jones, freight and cartage.....	24.56	
Oliver Machinery Co., 1 tool holder.....	7.03	
The Sherwin Williams Co., stain, wax, etc.	4.40	
John B. Varick Co., hardware and tools...	83.05	
John M. Woods & Co., sundry kinds of wood .....	170.65	
		<hr/>
		\$394.80
		<hr/>
Total expenditures.....		\$394.80
Transferred to unappropriated money.....		5.20
		<hr/>
		\$400.00
		<hr/> <hr/>

## Repair of School Furniture.

Appropriation .....	\$500.00	<hr/> <hr/>
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## EXPENDITURES.

## SUNDRIES.

Farrell Brothers, lamps and supplies.....	\$80.25	
C. A. Hoitt Co., casters, shades and hang- ing, etc.....	14.45	
New Method Varnish Co., varnish.....,	17.50	
James A. Scully, chair seats and labor, shades, etc.....	67.80	
Thomas Smith, bookcases, material and labor .....	246.41	
John Thornton, paint and labor.....	32.89	
John B. Varick Co., paint and line.....	5.75	
West Side Lumber Co., sheathing.....	5.74	
		<hr/>
		\$470.79
		<hr/>
Total expenditures.....		\$470.79
Transferred to unappropriated money.....		29.21
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		\$500.00
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**Care of School Clocks.**

Appopriation .....		\$350.00
		<u><u>          </u></u>
	EXPENDITURES.	
C. A. Trefethen.....	\$175.50	
P. J. Thornton.....	87.00	
	<u>          </u>	\$262.50
		<u>          </u>
Total expenditures.....		\$262.50
Transferred to unappropriated money.....		87.50
		<u>          </u>
		<u><u>\$350.00</u></u>

**Plans for Vocational Training School.**

Appropriation .....		\$500.00
		<u><u>          </u></u>
	EXPENDITURES.	
W. M. Butterfield, services and expenses preparing plans .....		\$225.00
		<u>          </u>
Total expenditures.....		\$225.00
Transferred to unappropriated money.....		275.00
		<u>          </u>
		<u><u>\$500.00</u></u>

**Piano, Maynard School.**

Appropriation .....		\$300.00
		<u><u>          </u></u>
	EXPENDITURES.	
The M. Steinert & Sons Co., piano and stool.....		\$300.00
		<u>          </u>

**Paupers Off Farm.**

Appropriation .....		\$20,215.00
		<u><u>          </u></u>



## EXPENDITURES.

## LABOR.

Joseph L. Boudreau, salary as overseer of poor .....	\$1,200.00	
Juliette E. Melancon, services as clerk....	660.00	
Dora Raiche, services as clerk.....	25.00	
		<hr/>
		\$1,885.00

## OFFICE SUPPLIES, ETC.

George Blanchet, premium on bond.....	\$7.50	
Boston & Maine Railroad, mileage.....	20.00	
Burroughs Adding Machine Co., rental of machine .....	30.00	
E. H. Chadbourne, P. M., stamps.....	20.00	
N. J. Fontaine & Co., cleaning rugs.....	2.50	
W. P. Goodman, stationery.....	9.91	
A. L. Gadbois, use of taxicabs.....	26.75	
L'Avenir National, publishing notice.....	10.00	
Leader Publishing Co., publishing proposals	10.00	
Manchester Street Railway, car tickets....	102.50	
Manchester Traction, Light & Power Co., repairing fans.....	3.00	
Manchester Union Co., publishing proposals	11.73	
Maxwell Ice Co., ice.....	2.80	
New England Telephone & Telegraph Co., use of telephone.....	24.20	
Ruemely Press, printing.....	9.50	
James A. Scully, spring for chair.....	2.50	
Temple & Farrington Co., books and sta- tionery .....	19.50	
John B. Varick Co., liquid veneer.....	1.00	
		<hr/>
		\$313.39

## GROCERIES AND PROVISIONS.

Fred H. Balch .....	\$6.00
Barbeau Brothers .....	194.89
Beaudet & Dupont .....	40.00
Paul Bellefeuille .....	180.00
Jean B. Bouchard .....	90.00
Nazaire L. Boulanger .....	89.50
Bourgeois & Co.....	90.00
Arsene Bournival .....	56.00
Joseph Bureau .....	705.58
C. H. Clark & Sons.....	125.85
Daigle & Daigle .....	102.57

Napoleon Daigle .....	\$175.38
Joseph M. Demers.....	110.00
Dionne & Brule .....	202.00
O. F. Dubois .....	377.00
Eugene Dubois .....	438.00
Ducharme Brothers .....	123.50
Joseph Duda .....	11.50
Joseph Dumas .....	120.00
Joseph Dumas & Son .....	200.80
L. F. Dusseault & Co.....	405.00
A. J. Gagne .....	447.06
Gaillardet & Rivard.....	124.00
Thomas Gallant .....	24.00
Gaudette Brothers .....	320.98
Gaudreau Brothers .....	52.00
Ernest Gelinas .....	358.00
P. F. Grenier .....	59.99
Gorman Brothers .....	287.30
James J. Griffin .....	76.00
Griffin & Duguay .....	564.94
Joseph B. Haggerty .....	108.00
Omer H. Hamel .....	131.98
John Healy .....	168.00
A. P. Hermsdorf .....	131.00
Martin Johnson .....	70.00
John A. Kane .....	55.92
T. J. Labrecque .....	127.00
Norbert Lafond .....	144.00
Lamoureux Brothers .....	76.00
A. S. LaSalle .....	3.00
Martel & Valliere .....	64.00
Oscar McDuffee .....	220.00
McLaughlin & Day .....	96.00
M. J. McNulty .....	40.00
A. M. Menard .....	306.00
L. T. Melancon .....	101.47
C. E. Newcomb .....	282.00
Charles Normand .....	106.00
Noury & Co.....	10.00
Parnell Brothers .....	56.00
Hertel Pariseau .....	156.00
August Pearson .....	24.00
M. Peloquin .....	269.00
Edmond Pinard .....	422.00
A. H. Prince .....	90.00
A. D. Prince .....	95.00
Guy T. Robinson .....	108.00

A. L. Robitaille .....	\$290.00
S. A. Rouleau .....	150.00
Rouleau & Messier .....	30.00
Eugene Quirin & Co.....	171.00
C. D. Steele .....	102.03
Frank V. Steele & Co.....	63.00
Frank V. Steele .....	59.90
Mary Sowa .....	25.00
Summer Street Market .....	20.00
Joseph Trahan .....	10.71
Twentieth Century Market .....	222.95
Moise Verrette .....	223.74
H. T. Vezina .....	228.96
E. C. Voisard .....	934.00
Wiggin-Young Co.....	72.00

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 \$12,221.50

## FUEL.

Charles Boisclair .....	\$37.25
J. B. Blanchard .....	64.75
G. A. Campbell & Co.....	11.50
J. M. Dery .....	27.50
J. H. DeCoursey Coal Co.....	4.00
W. E. Dunbar & Sons.....	8.50
F. V. Duplessis .....	2.00
Fellows & Son .....	20.50
C. A. & A. W. Flint.....	24.38
William Forest .....	68.00
E. C. Haskell .....	5.00
Lessard & Richard .....	63.45
Joseph Masse .....	24.25
Manchester Coal & Ice Co.....	29.25
Moore & Preston Coal Co.....	9.00
Northern New England Coal Co.....	16.00
D. M. Poore Coal Co.....	10.40
Raiche & Prince .....	29.00
J. P. Russell .....	5.00
Union Coal Co.....	18.00
Henry Weber .....	27.76

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 \$505.49

## BOARD AND CARE AND RENT.

Clement Beaudet .....	\$8.00
Mrs. Fred Beauchemin .....	104.00
Gedeon Belisle .....	17.50
Henry A. Berger .....	156.00
Mrs. G. Burke .....	144.00

Mrs. P. Bourque .....	\$30.00
Napoleon Chaput .....	130.00
Abraham Cote .....	50.00
Mrs. Martha Draper .....	96.00
John Donnelly .....	69.33
Joseph Duda .....	3.50
Joseph Dumas .....	104.00
Elliot Hospital .....	5.00
Thomas Hebert .....	36.00
Hillsborough County Farm .....	622.27
Mrs. Robert Keefe .....	26.00
Melvin A. Lewis .....	130.00
Manchester Children's Home .....	80.00
Notre Dame Hospital.. ..	137.60
Notre Dame Orphanage .....	642.00
Old Ladies' Home .....	247.84
Pembroke Sanatorium .....	5.46
The Rimmon Companions .....	28.00
Victor W. Roy.....	60.00
St. Joseph's Boys' Home .....	120.00
St. Patrick's Orphanage .....	160.00
St. Pierre Orphanage .....	696.00
Mrs. Arsene Vienne .....	72.00
Gedeon S. Welcome .....	78.00
West Side Lumber Co.....	4.00
Mrs. John Wilson .....	78.00
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	\$4.140.50

## BOOTS AND SHOES.

A. T. Beaumier .....	\$90.30
Eugene C. Brigham .....	6.00
E. C. Chagnon & Co.....	36.40
L. H. Chase Co.....	61.00
George W. Dodge Shoe Co.....	6.25
T. Gelinas .....	2.00
Gedeon Gosselin .....	7.00
Simeon Gregoire & Co.....	17.10
Simeon Gregoire .....	34.70
William S. Gregoire .....	7.00
Leblanc & Cote .....	3.50
Wm. Marcotte & Co.....	4.24
New Idea Shoe Co.....	10.75
C. Pariseau & Co.....	3.00
J. A. Raymond .....	15.50
Gustaf Schlough .....	5.75
D. F. Shea .....	2.00
Woodman Shoe Co.....	2.75
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\$315.24

CLOTHING.

Manchester Dry Goods Co.....	\$3.12	
M. A. McDonough .....	5.00	
		\$8.12

MEDICINE, MEDICAL SERVICES, FUNERAL EXPENSES.

Charles Boisclair, funeral outfit.....	\$10.00	
Boufford, Letendre & Co.:		
Burial outfit .....	25.00	
Transportation to hospital .....	6.00	
Clarence Coburn, M. D., services.....	3.00	
J. M. Dery, burial outfits.....	75.00	
J. Doucet & Co., medicine.....	9.21	
C. E. Dufort, medical supplies.....	.60	
H. E. Dunnington, medicine.....	3.05	
Dyer & Chipman, medicine.....	6.90	
George V. Fiske, M. D., services.....	6.00	
A. L. Gadbois, burial outfit.....	25.00	
Oscar L. Giguere, medicine.....	2.00	
Elmer D. Goodwin, burial outfit and use of ambulance.....	31.00	
Ezra A. Jones, M. D., services.....	6.00	
Kerwin & Sheehan, medicine.....	1.35	
J. E. A. Lanouette, M. D., services.....	8.00	
Gustave Lafontaine, M. D., services.....	3.00	
J. E. Lemaitre, M. D., services.....	3.00	
C. R. Leckie, medicine.....	1.10	
John A. Marshall, medical supplies.....	31.45	
E. R. Monette, medicine.....	8.20	
A. F. Precourt, medicine.....	15.24	
A. J. Precourt.....	10.90	
Z. Provencher & Co.....	16.13	
John C. O'Connor, M. D., services.....	3.00	
Walsh & Cummings, supplies.....	8.98	
A. F. Wheat, M. D., services.....	5.00	
		\$324.11

SUNDRIES.

W. J. Freeman, team.....	\$0.50	
George Reardon, transportation.....	5.58	
Jeffrey Shea, transportation.....	6.08	
		\$12.16
Total expenditures .....		\$19,725.51

Transferred to unappropriated money.....	\$479.40
Transferred to new account.....	10.00
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	\$20,215.00
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Indigent Soldiers.

Appropriation .....	\$500.00
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EXPENDITURES.

GROCERIES.

M. Verrette .....	\$96.00
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FUEL.

G. A. Campbell & Co.....	\$2.00	
Moore & Preston Coal Co.....	4.25	
Northern New England Coal Co.....	10.00	
D. M. Poore Coal Co.....	7.00	
J. P. Russell.....	6.00	
	<hr/>	\$29.25

BOARD AND CARE AND RENT.

Mathew Malloy .....	\$130.00	
Thomas Mitcheson .....	130.00	
	<hr/>	\$260.00

SHOES.

G. W. Dodge Shoe Co.....	\$6.00
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Total expenditures .....	\$391.25
Transferred to unappropriated money.....	108.75
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	\$500.00
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Purchase of Land Sold for Taxes.

Appropriation .....	\$5,000.00
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BAND CONCERTS.

161

EXPENDITURES.

George E. Morrill.....	\$4,668.44
Total expenditures .....	\$4,668.44
Transferred to unappropriated money.....	331.56
	<u>\$5,000.00</u>

Board of Examiners of Plumbers.

Appropriation .....	\$50.00
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EXPENDITURES.

SUNDRIES.

J. T. Manseau & Co., balance due on supplies .....	\$0.06
Pike & Heald Co., supplies.....	47.63
Temple & Farrington Co., binding records .....	2.00
	<u>\$49.69</u>
Total expenditures .....	\$49.69
Transferred to unappropriated money.....	.31
	<u>\$50.00</u>

Band Concerts.

Appropriation .....	\$350.00
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EXPENDITURES.

Cadet Band .....	\$50.00
First Infantry Band .....	50.00
T. T. Kosciuszki Band.....	50.00
Lafayette Band .....	50.00
Manchester City Band .....	50.00
Turner Band .....	50.00
	<u>\$200.00</u>
Total expenditures .....	\$300.00
Transferred to unappropriated money.....	50.00
	<u>\$350.00</u>

**Militia.**

Appropriation .....	\$1,050.00
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## EXPENDITURES.

Band, First Regiment, N. H. N. G.....	\$50.00	
Battery A, First Regiment, N. H. N. G.....	100.00	
Company A, First Regiment, N. H. N. G...	100.00	
Company B, First Regiment, N. H. N. G...	100.00	
Company F, First Regiment, N. H. N. G...	100.00	
Company K, First Regiment, N. H. N. G...	100.00	
Joseph Freschl Post, G. A. R.....	100.00	
Louis Bell Post, G. A. R.....	100.00	
Headquarters, First Regiment, N. H. N. G..	50.00	
Hospital Corps, N. H. N. G.....	50.00	
Manchester War Veterans.....	100.00	
Spanish War Veterans.....	100.00	
	-----	\$1,050.00
Total expenditures .....		\$1,050.00

**Decoration of Soldiers' Graves.**

Appropriation .....	\$500.00
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## EXPENDITURES.

Joseph Freschl Post, G. A. R.....	\$100.00	
Louis Bell Post, G. A. R.....	400.00	
	-----	\$500.00
Total expenditures .....		\$500.00

**State Tax.**

Appropriation .....	\$129,920.00
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## EXPENDITURES.

State of New Hampshire.....	\$129,920.00
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**County Tax.**

Appropriation ..... \$59,167.36

EXPENDITURES.

County of Hillsborough..... \$59,167.36

**Celebration of Independence Day.**

Appropriation ..... \$600.00

EXPENDITURES.

SUNDRIES.

Battery A, N. H. N. G., firing salute..... \$32.00  
 Manchester Cadet Band, services..... 60.00  
 National Fireworks Manufacturing Co.,  
 contract for display of fireworks..... 500.00

\$592.00

Total expenditures ..... \$592.00  
 Transferred to unappropriated money..... 8.00

\$600.00

**Animal Rescue League.**

Appropriation ..... \$300.00

EXPENDITURES.

Animal Rescue League, amount appropriated..... \$300.00

**District Nursing Association.**

Appropriation ..... \$300.00

EXPENDITURES.

District Nursing Association, amount appropriated..... \$300.00.

**Elliot Hospital.**

Appropriation .....	\$300.00
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EXPENDITURES.

Elliot Hospital, amount appropriated.....	\$300.00
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**Hospice St. Vincent de Paul.**

Appropriation .....	\$300.00
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EXPENDITURES.

Hospice St. Vincent de Paul, amount appropriated.....	\$300.00
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**Infant Asylum, Our Lady of Perpetual Help.**

Appropriation .....	\$300.00
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EXPENDITURES.

Infant Asylum, Our Lady of Perpetual Help, amount appropriated .....	\$300.00
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**Manchester Boys' Club.**

Appropriation .....	\$300.00
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EXPENDITURES.

Manchester Boys' Club, amount appropriated.....	\$300.00
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**Notre Dame de Lourdes Hospital.**

Appropriation .....	\$300.00
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EXPENDITURES.

Notre Dame de Lourdes Hospital, amount appropriated .....	\$300.00
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**Notre Dame de Lourdes Girls' Orphanage.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Notre Dame de Lourdes Girls' Orphanage, amount appropriated .....	\$300.00
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**Orphelinat St. Pierre.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Orphelinat St. Pierre, amount appropriated.....	\$300.00
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**Sacred Heart Hospital.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Sacred Heart Hospital, amount appropriated.....	\$300.00
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**Settlement Association.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Settlement Association, amount appropriated.....	\$300.00
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**St. John's Home.**

Appropriation .....	\$300.00
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## EXPENDITURES.

St. John's Home, amount appropriated.....	\$300.00
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**St. Joseph's Boys' Orphanage.**

Appropriation .....	\$300.00
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## EXPENDITURES.

St. Joseph's Boys' Orphanage, amount appropriated....	\$300.00
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**St. Patrick's Girls' Orphanage.**

Appropriation .....	\$300.00
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## EXPENDITURES.

St. Patrick's Girls' Orphanage, amount appropriated....	\$300.00
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**W. C. T. U. Mercy Home.**

Appropriation .....	\$300.00
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## EXPENDITURES.

W. C. T. U. Mercy Home, amount appropriated.....	\$300.00
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**Women's Aid Home.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Women's Aid Home, amount appropriated.....	\$300.00
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**West Side Reading Room.**

Appropriation .....	\$100.00
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## EXPENDITURES.

West Side Reading Room, amount appropriated.....	\$100.00
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**Young Men's Christian Association.**

Appropriation .....	\$300.00
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EXPENDITURES.

Young Men's Christian Association, amount appropriated .....	\$300.00
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**Revision of Ordinances.**

Balance from last year unexpended.....	\$1,000.00
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EXPENDITURES.

Transferred to new account.....	\$1,000.00
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**Resolution Raising Money and Making Appropriations for the Year 1913.**

City of Manchester.

In the year one thousand nine hundred and thirteen.

*Resolved* by the Board of Common Council of the City of Manchester, as follows:

That the sum of one million twenty-one thousand nine hundred and seventy-five dollars (\$1,021,975) be raised for the use of said city for the year one thousand nine hundred and thirteen (1913), by tax on the polls and estates liable to be taxed thereon in said city, which sum together with such unappropriated money as may now be in the city treasury, or may hereafter come into it, shall be appropriated as follows, to wit:

CENTRAL DEPARTMENT.

Interest .....	\$55,000.00
Sinking fund .....	15,050.00
City Hall .....	5,000.00
Printing and stationery .....	2,700.00
Incidental expenses .....	7,600.00
Land sold for taxes .....	5,000.00
Mayor's incidentals .....	300.00
City officers' salaries .....	25,000.00

Payment of funded debt.....	\$30,000.00
Payment of temporary notes .....	12,850.00
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	\$161,500.00
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## AUDITOR'S DEPARTMENT.

Salaries and expenses .....	\$3,100.00
	<hr/> <hr/>

## DEPARTMENT OF TAXES.

State tax .....	\$97,440.00
County tax .....	59,167.36
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	\$156,607.36
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## ASSESSORS' DEPARTMENT.

Salaries and expenses .....	\$12,400.00
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## ENGINEER'S DEPARTMENT.

Salaries and expenses .....	\$11,000.00
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## BUILDING DEPARTMENT.

Salaries and expenses .....	\$5,000.00
Repairs on public buildings .....	19,975.00
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	\$24,975.00
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## STREET AND SEWER DEPARTMENT.

Board of Public Works, salaries and expenses.....	\$13,700.00
Cleaning streets .....	16,000.00
Repair of highways .....	40,000.00
Watering streets .....	4,000.00
Paving streets .....	20,000.00
Grading for concrete .....	7,000.00
Scavenger service .....	30,000.00
Bridges .....	7,000.00
City teams .....	18,000.00
Repairs of sewers .....	8,000.00
New sewers .....	17,500.00
Brown-tail and gypsy moths .....	4,650.00
City yard .....	1,000.00
Macadamizing and new highways .....	7,500.00

MONEY RAISED AND APPROPRIATIONS.

169

Street sweeping .....	\$11,500.00
Head and Dowst purchase .....	7,596.12
Machine sweeping .....	4,000.00
Cutting and trimming trees .....	1,500.00
Elm leaf beetle .....	2,500.00
Oiling streets .....	14,000.00
	<hr/>
	\$235,446.12
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SCHOOL DEPARTMENT.

Books and stationery .....	\$50.00
Care of rooms .....	15,000.00
Contingent expenses .....	5,000.00
Evening schools—common .....	3,000.00
Evening schools—drawing .....	300.00
Free text-books .....	10,000.00
Fuel .....	16,000.00
Furniture and supplies .....	2,000.00
Printing and advertising .....	700.00
Manual Training .....	400.00
Teachers' salaries .....	156,525.00
Piano (Maynard School) .....	300.00
Care of school clocks .....	350.00
Repair of school furniture .....	500.00
Plans for vocational training school .....	500.00
Additional accommodations, Youngsville school.....	8,000.00
	<hr/>
	\$218,625.00
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FIRE DEPARTMENT AND HYDRANT SERVICE.

Fire department—salaries and maintenance.....	\$126,488.00
Fire-alarm telegraph .....	7,950.00
Hydrant service .....	23,525.00
Automobile for chief of fire department.....	2,400.00
Motor ladder truck to replace Truck 3.....	6,800.00
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	\$167,163.00
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PUBLIC BUILDINGS AND PLACES.

Pine Grove Cemetery .....	\$19,000.00
Valley Cemetery .....	5,000.00
Rock Rimmon park .....	2,000.00
Prout park .....	1,000.00
Care of commons .....	3,000.00

Derryfield park .....	\$500.00
Lafayette park .....	500.00
Stark park .....	500.00
East Side park .....	50.00
Miscellaneous playgrounds and caretakers.....	2,400.00
Deficit on fire-alarm telegraph station.....	4,041.80
Care of public comfort .....	3,425.00
New schoolhouses .....	391.52
Amoskeag Cemetery .....	400.00
Merrill yard .....	100.00
Care of city clocks .....	200.00
	<hr/>
	\$42,508.32
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## HEALTH DEPARTMENT.

Office expenses .....	\$9,940.00
Isolation Hospital .....	7,560.00
Smallpox Hospital .....	2,000.00
Medical inspection in schools .....	3,000.00
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	\$22,500.00
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## POLICE DEPARTMENT.

Police station .....	\$3,000.00
Police Court .....	3,200.00
Police Commission .....	82,592.32
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	\$88,792.32
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## CITY LIBRARY.

Salaries and expenses .....	\$10,000.00
Purchase of books .....	2,500.00
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	\$12,500.00
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## PATRIOTIC, CHARITABLE AND PHILANTHROPIC.

Women's Aid Home .....	\$300.00
Elliot Hospital .....	300.00
Sacred Heart Hospital .....	300.00
Notre Dame Hospital .....	300.00
Mercy Home .....	300.00
Infant Asylum .....	300.00
Decoration of soldiers' graves, Joseph Freschl Post, G. A. R.....	100.00



MONEY RAISED AND APPROPRIATIONS.

171

Decoration of soldiers' graves, Louis Bell Post, G. A. R.	\$400.00
Company A, First Regiment, N. H. N. G.....	100.00
Company B, First Regiment, N. H. N. G.....	100.00
Company F, First Regiment, N. H. N. G.....	100.00
Company K, First Regiment, N. H. N. G.....	100.00
Battery, N. H. N. G.....	100.00
Spanish War Veterans .....	100.00
Headquarters and band, First Regiment.....	100.00
Joseph Freschl Post, G. A. R.....	100.00
Louis Bell Post, G. A. R.....	100.00
Manchester War Veterans .....	100.00
Hospital corps .....	50.00
Band concerts .....	350.00
Celebration of Independence Day.....	600.00
Boys' Club .....	300.00
Orphelinat St. Pierre .....	300.00
West Side Reading Room .....	100.00
St. Joseph's Boys' Orphanage .....	300.00
Animal Rescue League .....	300.00
Hospice St. Vincent de Paul.....	300.00
Examiners of plumbers .....	50.00
St. John's Home .....	300.00
St. Patrick's Girls' Orphanage .....	300.00
Young Men's Christian Association .....	300.00
District Nursing Association .....	300.00
Settlement Association .....	300.00

\$7,450.00

OVERSEER OF THE POOR.

Paupers off farm .....	\$18,000.00
Indigent soldiers .....	500.00
Salaries and expenses .....	2,215.00

\$20,715.00

LIGHTING STREETS.

Lighting streets .....	\$65,500.00
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Passed April 15 1913.

**Resolution in Amendment of the Resolution Raising Money, and  
Making Appropriations for the Year 1913.**

City of Manchester.

In the year one thousand nine hundred and thirteen.

*Resolved* by the Board of Common Council of the City of Manchester,  
as follows:

WHEREAS, The legislature of the state of New Hampshire has by a resolution increased the state tax for the year one thousand nine hundred and thirteen from six hundred thousand dollars to eight hundred thousand dollars, thereby increasing the proportionate share of the city of Manchester thirty-two thousand four hundred and eighty dollars (\$32,480), therefore be it

*Resolved*, That the resolution raising money and making appropriations for the year one thousand nine hundred and thirteen be amended by increasing the amount to be raised for the use of said city by tax on the polls and estates liable to be taxed thereon in said city, by the said sum of thirty-two thousand four hundred and eighty dollars (\$32,480), so that the amount to be raised by taxation as aforesaid shall be the sum of one million fifty-four thousand four hundred and fifty-five dollars (\$1,054,455), and that said increase shall be appropriated as follows, to wit:

DEPARTMENT OF TAXES.

State tax .....	\$32,480.00
Passed Tuesday, May 27, 1913.	

**Resolution Relating to the Final Transfers for the Year 1913.**

City of Manchester.

In the year one thousand nine hundred and thirteen.

*Resolved* by the Common Council of the City of Manchester, as follows:

That the city clerk be and hereby is authorized to make the following transfers:

To account of money unappropriated:

From City Hall.....	\$711.06
Board of Public Works.....	2,727.20
snow and ice and cleaning streets..	1,104.58
street sweeping .....	850.03

From city teams .....	\$53.86
new sewers .....	16,929.06
Head & Dowst purchase.....	26.32
machine sweeping .....	1,269.87
miscellaneous playgrounds .....	834.49
Lafayette park .....	481.95
East Side park .....	29.54
Prout park .....	334.69
lighting streets .....	769.47
Engineer's Department.....	8.79
Health Department .....	1,026.39
City Library .....	.63
Fire Department .....	329.90
Police Commission .....	3,751.06
Police Court .....	1,022.68
repairs of public buildings .....	28.46
care of city clocks .....	102.75
subway comfort .....	34.58
Pine Grove Cemetery .....	4.51
Valley Cemetery .....	27.24
Amoskeag Cemetery .....	107.50
repair of school furniture .....	29.21
printing and advertising .....	132.49
books and stationery .....	5.36
furniture and supplies .....	45.64
care of rooms .....	26.49
manual training .....	5.20
evening school—mechanical drawing	96.34
evening schools .....	648.00
teachers' salaries .....	5,543.73
plans for vocational training school	275.00
addition to Youngsville schoolhouse	221.42
care of school clocks .....	87.50
paupers off farm .....	479.49
indigent soldiers .....	108.75
land sold for taxes .....	331.56
band concerts .....	50.00
celebration of Independence Day...	8.00
Board of Examiners of Plumbers...	.31

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 \$40,661.10

From account of unappropriated money:	
To interest .....	\$6,806.24
printing and stationery .....	163.01
incidental expenses .....	1,768.13
city officers' salaries .....	1,914.38
Building Department .....	96.94

To macadamizing and new highways.....	\$4,999.77	
repairs of sewers .....	1,369.91	
cutting and trimming trees .....	784.65	
city yard .....	3,230.48	
elm leaf beetle .....	1,192.08	
brown-tail and gypsy moths .....	3,829.29	
commons .....	1,814.77	
Stark park .....	151.57	
Derryfield park .....	420.79	
fire-alarm telegraph .....	167.09	
police station .....	76.57	
fuel .....	663.71	
contingent expenses .....	3,533.20	
free text-books .....	99.83	
free cash in treasury .....	7,576.69	
		<hr/>
		\$40,661.10

STATEMENT OF TAXATION.

Resident and nonresident.	Polls.		Real estate, value.	Stock in trade.	Money on hand, at interest, or on deposit, value.	Horses, asses, and mules, over 18 months old.		Automobiles and Carriages, value.	Cows, oxen, and other neat stock over 18 months old.
	No.	Value.				No.	Value.		
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	\$9,618.00
1895	11,244	1,224,400	17,688,224.00	2,435,546.00	149,692.00	2,639	196,264.00	50,128.00	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	9,308.00
1897	12,321	1,292,100	18,763,182.00	2,772,460.00	113,288.00	2,617	174,746.00	57,810.00	10,920.00
1898	12,808	1,280,800	19,175,434.00	2,782,386.00	167,160.00	2,640	171,242.00	56,668.00	12,400.00
1899	13,137	1,313,700	19,301,762.00	3,039,419.00	176,388.00	2,648	169,977.00	58,129.00	14,570.00
1900	13,759	1,375,900	19,569,249.00	3,599,072.00	1,293,685.00	2,755	174,693.00	88,500.00	16,690.00
1901	13,976	1,397,600	19,922,261.00	3,888,517.00	394,436.00	2,669	174,242.00	99,976.00	14,076.00
1902	14,079	1,407,900	19,983,327.00	3,586,583.00	1,173,222.00	2,621	180,157.00	120,369.00	13,414.00
1903	14,384	1,438,400	20,137,200.00	3,303,445.00	1,210,597.00	2,577	179,065.00	129,404.00	16,039.00
1904	14,451	1,445,100	20,465,749.00	3,400,749.00	1,258,831.00	2,483	177,580.00	126,762.00	15,564.00
1905	14,650	1,465,000	20,966,778.00	3,858,690.00	1,125,653.00	2,384	196,697.00	150,365.00	20,989.00
1906	15,481	1,548,100	22,133,160.00	4,800,392.00	195,024.00	2,288	189,238.00	159,026.00	19,736.00
1907	15,800	1,580,000	23,401,086.00	4,940,178.00	162,330.00	2,406	207,395.00	170,351.00	19,978.00
1908	16,246	1,626,606	24,034,758.00	4,714,079.00	374,506.00	2,262	201,191.00	187,240.00	20,310.00
1909	16,093	1,609,300	24,347,963.00	4,908,343.00	119,972.00	2,220	200,821.00	221,902.00	19,503.00
1910	17,261	1,726,100	25,247,605.00	5,345,478.00	260,692.00	2,545	210,434.00	281,507.00	18,515.00
1911	20,092	2,009,200	25,910,972.00	5,384,344.00	270,554.00	2,171	210,622.00	310,037.00	20,031.00
1912	18,942	1,894,200	41,754,957.00	7,789,814.00	555,830.00	2,305	319,690.00	422,059.00	27,242.00
1913	19,374	1,937,400	43,592,143.00	7,905,599.00	365,906.00	2,211	337,582.00	502,453.00	26,467.00

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.—Continued.

Hogs.	Sheep over six months old.		Boats.		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.
	No.	Value.	No.	Value.	No.	Value.						
73	\$820.00	40	\$80.00	.....	.....	\$316.00	\$230,000.00	\$2,100.00	\$6,763,050.00	\$28,391,710.00	\$1.78	\$505,372.44
52	524.00	29	62.00	.....	.....	174.00	263,166.00	1,400.00	6,774,950.00	28,861,122.00	1.74	502,183.02
26	260.00	43	90.00	.....	.....	.....	249,104.00	2,000.00	6,755,100.00	29,443,668.00	1.86	547,651.50
45	470.00	33	56.00	.....	.....	.....	233,264.00	.....	7,008,650.00	30,486,946.00	2.08	634,127.80
69	490.00	43	64.00	.....	.....	610.00	250,934.00	.....	7,090,300.00	30,988,488.00	1.95	604,280.57
45	418.00	11	24.00	.....	.....	756.00	222,460.00	.....	6,294,181.00	31,491,784.00	1.95	614,096.93
35	354.00	7	14.00	.....	.....	904.00	213,314.00	.....	6,464,589.00	32,706,794.00	1.90	621,428.47
12	92.00	6	18.00	.....	.....	1,200.00	223,780.00	.....	6,924,919.00	33,041,112.00	1.98	654,214.00
.....	.....	8	24.00	.....	.....	1,460.00	227,982.00	.....	6,399,956.00	33,044,334.00	2.25	743,497.53
7	100.00	.....	.....	.....	.....	832.00	210,272.00	.....	6,194,496.00	32,819,850.00	2.10	689,217.79
2	20.00	.....	220.00	.....	.....	410.00	185,950.00	.....	6,102,524.00	33,179,294.00	1.95	647,063.29
27	190.00	5	.16	.....	.....	1,337.00	287,220.00	.....	6,103,731.00	34,176,466.00	2.08	710,870.13
18	224.00	.....	.....	.....	.....	1,314.00	239,002.00	.....	6,128,294.00	35,413,510.00	1.91	676,402.89
23	272.00	.....	.....	.....	.....	871.00	233,746.00	4,700.00	6,247,487.00	36,968,394.00	1.85	683,915.28
22	274.00	.....	.....	.....	.....	810.00	250,818.00	2,200.00	6,333,222.00	37,746,768.00	1.80	702,088.28
18	195.00	.....	.....	.....	.....	902.00	228,348.00	34,900.00	6,350,795.00	38,102,944.00	2.05	781,118.54
54	770.00	.....	.....	.....	.....	972.00	256,153.00	57,730.00	6,475,896.00	39,881,852.00	2.01	801,628.21
71	1,058.00	.....	.....	.....	.....	1,612.00	232,832.00	592,708.00	6,498,876.00	41,451,846.00	2.04	845,616.91
168	1,493.00	14	54.00	.....	.....	2,848.00	154,595.00	501,362.00	13,588,433.00	67,012,487.00	1.50	1,005,191.73
169	1,066.00	4	20.00	.....	.....	1,598.00	148,355.00	817,533.00	13,571,718.00	69,208,300.00	1.52	1,051,966.07

## Assessor's 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 1912 was as follows:

	Valuation.	Rate.	Tax.
Real estate .....	\$57,163,861	1.52	\$868,890.69
Personal property .....	10,107,039	1.52	153,626.99
	<hr/>		<hr/>
	\$67,270.900		\$1,022,517.68
Number of polls, 19,374.....	1,937,400	....	29,488.48
	<hr/>		<hr/>
	\$69,208.300		\$1,051,966.16
Fractional loss .....			.09
			<hr/>
			\$1,051,966.07
School tax .....			383.18
Brown-tail moth tax.....			1,912.63
Property exempt from city tax only.....			6,785.84
			<hr/>
Total tax levied.....			\$1,061,047.72

The share distributed to Manchester of the amount of tax assessed, as per returns made by the corporations to state treasurer:

On railroads .....	56,355.25
On savings banks.....	97,589.95
On insurance companies.....	4,800.75
On literary fund .....	4,483.62
	<hr/>
Grand tax total.....	\$1,224,277.29

For further information in relation to taxes collected by the state, see state treasurer's report.

## TAX VALUATIONS, ETC., FROM 1890 TO 1913, INCLUSIVE.

YEAR.	Valuation.	Taxes.	No. polls.	Poll tax.	Valuation of poll.
1890.....	\$24,207,740	\$462,809.17	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.....	29,391,710	505,372.44	12,103	1.78	100
1895.....	28,861,122	502,183.02	12,244	1.74	100
1896.....	29,443,668	547,651.50	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
1900.....	32,706,794	621,428.47	13,759	1.90	100
1901.....	33,041,112	654,214.00	13,976	1.98	100
1902.....	33,034,334	743,497.53	14,079	2.25	100
1903.....	32,819,850	689,217.79	14,384	2.10	100
1904.....	33,179,294	647,003.29	14,451	1.95	100
1905.....	34,176,466	710,870.13	14,650	2.08	100
1906.....	35,413,510	676,402.89	15,481	1.91	100
1907.....	36,968,394	683,915.28	15,800	1.85	100
1908.....	37,746,708	702,088.28	16,266	1.86	100
1909.....	38,102,944	781,118.54	16,093	2.05	100
1910.....	39,881,852	801,628.21	17,261	2.01	100
1911.....	41,451,846	845,616.91	20,092	2.04	100
1912.....	67,012,487	1,005,191.73	18,942	1.50	100
1913.....	69,204,300	1,751,966.07	19,374	1.52	100



Statement of Account of George E. Morrill, Tax Collector for the City of Manchester.

	Amount outstanding at date of settlement.	Collected, and abated since settlement.	Balance in new warrant to Victor W. Roy, collector.
Tax list, 1905 .....	\$8,615.41	\$409.28	\$8,206.13
1906 .....	8,826.49	364.29	8,462.20
1907 .....	8,160.62	626.50	7,534.12
1908 .....	8,532.46	650.49	7,881.97
1909 .....	7,514.76	369.75	7,145.01
1910 .....	8,719.31	554.46	8,164.85
1911 .....	11,490.38	1,141.45	10,348.93
<hr/>			
Interest collected.....		\$2,413.83	
Credit by cash paid treasurer.....		\$2,413.83	
<hr/>			
Costs collected.....		\$2,240.40	
Credit by cash paid treasurer.....		\$2,240.40	
<hr/>			

DR.

1912.

June 1. To warrant resident list.....	\$1,003,546.53	
warrant non-resident list.....	1,645.20	
voluntary list.....	1,098.64	
warrant school tax.....	365.00	
moth tax.....	1,068.37	
state and county tax on ex- empted property.....	3,633.86	
	<hr/>	\$1,011,357.60
		<hr/>

CR.

1912, 1913.

By cash paid treasurer .....	\$995,529.74	
By abatements on assessors' warrant, 1912 and 1913 .....	8,056.27	
By unpaid taxes in warrant to Victor W. Roy, collector .....	7,771.59	
	<hr/>	\$1,011,357.60
		<hr/>

MANCHESTER, N. H., November 8, 1913.

I hereby certify that I have examined the account of George E. Morrill, tax collectors of said Manchester, and find the same correct, as above stated.

JAMES E. DODGE,  
*City Auditor.*

## TABLE OF TAXES DUE AND UNCOLLECTED.

YEAR.	Due January 1, 1913.	Discounts and abatements, 1913.	Collected in 1913	Due December 31, 1913.
Taxes of 1885.....	\$1,205.71	.....	.....	\$1,205.71
“ of 1886.....	1,264.85	.....	.....	1,264.85
“ of 1887.....	1,163.94	.....	.....	1,163.94
“ of 1888.....	1,580.13	.....	.....	1,580.13
“ of 1889.....	1,395.13	.....	.....	1,395.13
“ of 1890.....	1,687.08	.....	.....	1,687.08
“ of 1891.....	1,966.63	.....	.....	1,966.63
“ of 1892.....	2,582.12	.....	.....	2,582.12
“ of 1893.....	4,095.13	.....	.....	4,095.13
“ of 1894.....	3,514.05	.....	.....	3,514.05
“ of 1895.....	5,004.92	.....	.....	5,004.92
“ of 1896.....	4,992.00	.....	.....	4,992.00
“ of 1897.....	5,296.91	.....	.....	5,296.91
“ of 1898.....	5,629.21	.....	.....	5,629.21
“ of 1899.....	5,675.09	.....	.....	5,675.09
“ of 1900.....	5,150.11	.....	.....	5,150.11
“ of 1901.....	6,068.01	.....	.....	6,068.01
“ of 1902.....	6,501.97	.....	.....	6,501.97
“ of 1903.....	7,154.47	.....	.....	7,154.47
“ of 1904.....	6,638.33	.....	\$1.95	6,636.38

## 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 interests of literature and the sciences, and all seminaries and public schools; to encourage private and public institutions, rewards, and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures, and natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and economy, honesty and punctuality, sincerity, sobriety, and all social affections and generous sentiments among the people; *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 farm."

"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 towns; *provided, however*, that the assessors shall annually appraise such property and the valuation determined upon for the same shall be added to the valuation of all other property in the town to determine the total valuation for the purposes of state and county taxes."

## 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 1899, chapter 199.

Elliot Hospital, N. H., Laws of 1881, chapter 178.

Manchester Woman'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.

PROPERTY OWNED BY CATHOLIC PARISHES, CHURCHES, SCHOOLS AND PARSONAGES.

St. Augustine's parish church; Spruce street, corner of Beech street:			
Building .....	\$80,000.00		
26,000 square feet of land.....	7,800.00		
			\$87,800.00
St. Augustine's Catholic school; Spruce street, corner of Beech street:			
Building .....	\$8,000.00		
15,000 square feet of land.....	4,500.00		
			\$12,500.00
St. Augustine's Orphanage; 251 Lake avenue:			
Building .....	\$15,000.00		
10,000 square feet of land.....	3,000.00		
			\$18,000.00
St. Augustine's Convent; Cedar street, corner Beech street:			
Building .....	\$35,000.00		
10,000 square feet of land.....	2,000.00		
			\$37,000.00

St. Augustine's Convent Sisters Jesus and Mary; Spruce street:		
Building .....	\$8,000.00	
13,000 square feet of land.....	3,220.00	
	<hr/>	\$11,220.00
St. Augustine's parsonage; 205 Spruce street:		
Building .....	\$7,375.00	
7,500 square feet of land.....	2,625.00	
	<hr/>	\$2,500.00
	\$10,000.00	
St. Marie's parish church; Notre Dame, corner Wayne street:		
Building .....	\$148,750.00	
72,500 square feet of land.....	36,250.00	
	<hr/>	\$185,000.00
St. Marie's school; Cartier street:		
Building .....	\$46,000.00	
20,000 square feet of land.....	4,000.00	
	<hr/>	\$50,000.00
St. Marie's Convent of Holy Angels; Notre Dame avenue and Wayne street:		
Building .....	\$22,000.00	
22,500 square feet of land.....	11,250.00	
	<hr/>	\$33,250.00
St. Marie's parsonage; 378 Notre Dame:		
Building .....	\$27,000.00	
10,000 square feet of land.....	5,000.00	
	<hr/>	\$2,500.00
	\$32,000.00	
St. George's parish church; Pine street, corner of Orange street:		
Building .....	\$75,000.00	
18,690 square feet of land.....	7,164.00	
	<hr/>	\$82,164.00
St. George's school; Pine street, corner of Orange street:		
Building .....	\$40,000.00	
10,000 square feet of land.....	4,000.00	
	<hr/>	\$44,000.00
St. George's, St. Isidor Convent; Orange street:		
Building .....	\$40,000.00	
10,000 square feet of land.....	4,000.00	
	<hr/>	\$44,000.00

St. George's parsonage; 517 Pine street:		
Building .....	\$4,635.00	
5,930 square feet of land.....	2,865.00	
		\$2,500.00
	\$7,500.00	
St. Joseph's parish church, Lowell street, corner Pine street:		
Building .....	\$120,000.00	
46,050 square feet of land.....	46,050.00	
		\$166,050.00
St. Joseph's Girls' school; Pine street:		
Building, on church lot.....	\$14,000.00	
		\$14,000.00
St. Joseph's Holy Rosary school; 30 Cedar street:		
Building .....	\$9,000.00	
2,500 square feet of land.....	1,875.00	
		\$10,875.00
St. Joseph's library; Union street:		
Building .....	\$5,000.00	
4,900 square feet of land.....	2,450.00	
		\$7,450.00
St. Joseph's high school; Lowell street, corner Birch street:		
Building .....	\$13,000.00	
8,000 square feet of land.....	12,000.00	
		\$25,000.00
St. Joseph's Orphanage; Hanover street:		
Buildings .....	\$47,000.00	
40,500 square feet of land.....	40,500.00	
		\$87,500.00
St. Joseph's Catholic chapel; 121 Cedar street:		
Building .....	\$10,000.00	
5,000 square feet of land.....	1,500.00	
		\$11,500.00
Sacred Heart Hospital; Amherst street:		
Building .....	\$20,000.00	
40,500 square feet of land.....	30,375.00	
		\$50,375.00
Sacred Heart Hospital, Nurses' Home; 192 Amherst street:		
Building .....	\$3,000.00	
15,000 square feet of land.....	5,250.00	
		\$8,250.00

St. Joseph's parsonage; 145-147 Lowell street:		
Building .....	\$18,975.00	
18,050 square feet of land.....	9,025.00	
	<hr/>	\$2,500.00
	\$28,000.00	
Sacred Heart parish church; South Main street:		
Building and lot.....	\$30,000.00	
	<hr/>	\$30,000.00
Sacred Heart parish church; Pinard street:		
Building .....	\$8,000.00	
43,905 square feet of land.....	1,200.00	
	<hr/>	\$9,200.00
Sacred Heart parish parsonage; 247 South Main street:		
Building .....	\$4,537.00	
19,815 square feet of land.....	3,963.00	
	<hr/>	\$2,500.00
	\$8,500.00	
Our Lady of Perpetual Help, church and parsonage; Hayward street:		
Building .....	\$19,308.00	
56,915 square feet of land.....	5,692.00	
	<hr/>	\$25,000.00
Monastery of the Precious Blood; 555 Union street:		
Building .....	\$21,125.00	
7,750 square feet of land.....	3,875.00	
	<hr/>	\$25,000.00
St. Patrick's parish church and school; Coolidge avenue:		
Building .....	\$68,000.00	
56,281 square feet of land.....	22,550.00	
	<hr/>	\$90,550.00
St. Patrick's parish parsonage; 138 Coolidge avenue:		
Building on church lot.....	\$5,000.00	
	<hr/>	\$2,500.00
St. Francis parish church; South Elm street:		
Building .....	\$3,360.00	
18,972 square feet of land.....	4,740.00	
	<hr/>	\$8,100.00

St. Francis parish parsonage; Derry road:		
Building .....	\$1,300.00	
Land .....	2,500.00	
	<hr/>	\$2,500.00
	\$3,800.00	
St. Anne's parish church; Merrimack, corner Union street:		
Building .....	\$50,000.00	
20,520 square feet of land.....	6,000.00	
	<hr/>	\$56,000.00
St. Anne's parish school; Cedar and Union streets:		
Building .....	\$35,000.00	
15,000 square feet of land.....	3,000.00	
	<hr/>	\$38,000.00
St. Anne's McDonald school; Laurel and Union streets:		
Building .....	\$40,000.00	
15,300 square feet of land.....	3,240.00	
	<hr/>	\$43,240.00
St. Anne's parsonage; 231 Merrimack street:		
Building .....	\$2,960.00	
10,080 square feet of land.....	5,040.00	
	<hr/>	\$2,500.00
	\$8,000.00	
St. Antoine de Padoue parish church, Belmont street:		
Building .....	\$10,000.00	
55,700 square feet of land.....	8,350.00	
	<hr/>	\$18,350.00
St. Antoine de Padoue parsonage; 172 Belmont street:		
Building .....	\$1,430.00	
50,586 square feet of land.....	6,070.00	
	<hr/>	\$2,500.00
	\$7,500.00	
St. Antoine de Padoue school; Hall street:		
Building .....	\$8,714.00	
10,717 square feet of land.....	1,286.00	
	<hr/>	\$10,000.00
St. Antoine de Padoue school; Hall and Silver streets:		
Building .....	\$4,440.00	
5,606 square feet of land.....	560.00	
	<hr/>	\$5,000.00



PROPERTY EXEMPT FROM TAXATION.

187

Order of St. Benedict, St. Raphael's church;		
Third street:		
Building .....	\$35,000.00	
59,239 square feet of land.....	14,800.00	
	<hr/>	\$49,800.00
Order of St. Benedict parsonage; Ferry street:		
Building .....	\$6,500.00	
4,025 square feet of land.....	1,000.00	
	<hr/>	\$2,500.00
		\$7,500.00
Order of St. Benedict school; Ferry and Fourth streets:		
Building .....	\$1,556.00	
13,775 square feet of land.....	3,444.00	
	<hr/>	\$5,000.00
St. Hedwidge parish church; Merrimack and Pine streets:		
Building .....	\$30,000.00	
9,000 square feet of land.....	3,600.00	
	<hr/>	\$33,600.00
St. Hedwidge parish school; Merrimack and Union streets:		
Building .....	\$43,000.00	
8,820 square feet of land.....	3,525.00	
	<hr/>	\$46,525.00
St. Hedwidge's parish parsonage; Pine street:		
Building on church lot.....	\$5,000.00	\$2,500.00
Ruthenian Catholic church and parsonage; Lowell and Walnut streets:		
Buildings .....	\$9,300.00	
9,400 square feet of land.....	4,700.00	
	<hr/>	\$14,000.00
L'Hospital Notre Dame; Notre Dame avenue:		
Building .....	\$54,625.00	
60,500 square feet of land.....	45,375.00	
	<hr/>	\$100,000.00
Orphanage school; Notre Dame avenue:		
Building .....	\$17,500.00	
30,000 square feet of land.....	22,500.00	
	<hr/>	\$40,000.00
Notre Dame, l'Orphelinat St. Pierre; 55 Alsace street:		
Building .....	\$42,500.00	
95,977 square feet of land.....	12,500.00	
	<hr/>	\$55,000.00

Hospital Notre Dame; Kelley street:		
Land, 94,660 square feet.....	\$11,360.00	\$11,360.00
Sisters of Mercy Convent; 435 Union street:		
Building .....	\$30,000.00	
12,600 square feet of land.....	3,760.00	
	<hr/>	\$33,760.00
Sisters of Mercy, Mount St. Mary's Academy; Laurel street:		
Building .....	\$25,000.00	
31,500 square feet of land.....	9,450.00	
	<hr/>	\$34,450.00
Sisters of Mercy; 151 Ray street:		
Building .....	\$4,425.00	
10,500 square feet of land.....	1,575.00	
	<hr/>	\$6,000.00
Sisters of Mercy; 1004 Union street:		
Building .....	\$2,392.00	
10,721 square feet of land.....	1,608.00	
	<hr/>	\$4,000.00
Sisters of Mercy, House of St. Martha; 131 Laurel street:		
Building .....	\$1,500.00	
4,500 square feet of land.....	1,125.00	
	<hr/>	\$2,625.00
Sisters of Mercy, St. Martha's Home; Laurel and Union streets:		
Building .....	\$4,250.00	
4,500 square feet of land.....	1,350.00	
	<hr/>	\$5,600.00
CATHOLIC CEMETERIES.		
St. Augustine's; South Beech street.....	\$4,760.00	
Mount Calvary; Goffstown road.....	5,000.00	
St. Joseph's; Donald street.....	10,000.00	
	<hr/>	\$19,760.00
		<hr/>
		\$1,833,354.00
PROTESTANT CHURCHES.		
First Baptist church; Union street, corner Concord:		
Building .....	\$28,000.00	
18,500 square feet of land.....	9,250.00	
	<hr/>	\$37,250.00
First Freewill Baptist church; Merrimack street, corner Chestnut:		
Building .....	\$3,100.00	
12,600 square feet of land.....	18,900.00	
	<hr/>	\$22,000.00

People's Baptist church; Chestnut street; corner Concord:			
Building .....	\$8,000.00		
4,000 square feet of land.....	8,000.00		
			\$16,000.00
First Congregational Church; Hanover street, corner Union:			
Building .....	\$35,000.00		
42,560 square feet of land.....	34,048.00		
			\$69,048.00
Second Congregational church; Market street, corner Franklin:			
Building .....	\$32,000.00		
10,000 square feet of land.....	25,000.00		
			\$57,000.00
Third Congregational church; South Main street, corner Milford, West Manches- ter:			
Building .....	\$8,000.00		
20,465 square feet of land.....	4,093.00		
			\$12,093.00
First M. E. church; Valley street, corner Jewett:			
Building .....	\$8,000.00		
11,400 square feet of land.....	1,368.00		
			\$9,368.00
St. Paul's M. E. church; Union street, cor- ner Amherst:			
Building .....	\$25,000.00		
13,500 square feet of land.....	6,750.00		
			\$31,750.00
Trinity M. E. church; School street:			
Building .....	\$3,500.00		
8,604 square feet of land.....	2,580.00		
			\$6,080.00
St. James M. E. church; Pennacook street, corner Pine:			
Building .....	\$10,000.00		
17,160 square feet of land.....	3,430.00		
			\$13,430.00
Grace church, Episcopal; Lowell street, cor- ner Pine:			
Building .....	\$42,075.00		
15,850 square feet of land.....	7,925.00		
			\$50,000.00

First Unitarian church; Concord street, corner Beech:			
Building .....	\$25,000.00		
13,500 square feet of land.....	5,400.00		
			<hr/> \$30,400.00
Christian church, Protestant; Hall street, corner Merrimack:			
Building .....	\$9,000.00		
9,975 square feet of land.....	1,195.00		
			<hr/> \$10,195.00
Jewish temple; Laurel street:			
Building .....	\$825.00		
2,250 square feet of land.....	675.00		
			<hr/> \$1,500.00
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; Sag- amore, corner Pine:			
Building .....	\$8,000.00		
11,000 square feet of land.....	2,200.00		
			<hr/> \$10,200.00
Swedish Evangelical Mission; Pine street, corner Orange:			
Building .....	\$6,500.00		
5,600 square feet of land.....	2,240.00		
			<hr/> \$8,740.00
Swedish Baptist church; Arlington street, near Maple:			
Building .....	\$5,000.00		
4,822 square feet of land.....	964.00		
			<hr/> \$5,964.00
Second Advent church; Amherst street, be- tween Pine and Union:			
Building .....	\$5,500.00		
4,500 square feet of land.....	1,575.00		
			<hr/> \$7,075.00
City Mission chapel, Protestant; Merrimack street, corner Beech:			
Building .....	\$7,000.00		
12,000 square feet of land.....	3,780.00		
			<hr/> \$10,780.00

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.....	1,500.00	
	<hr/>	\$4,000.00
First Church of Christ, Scientist; Harrison street, corner Albert:		
Building .....	\$15,000.00	
17,000 square feet of land.....	6,800.00	
	<hr/>	\$21,800.00
St. Andrew's Protestant Episcopal church; North Main street, corner Conant, West Manchester:		
Building .....	\$12,000.00	
19,412 square feet of land.....	4,850.00	
	<hr/>	\$16,850.00
Congregation Adath Yashuran church; Central, near Maple:		
Building .....	\$18,950.00	
7,000 square feet of land.....	1,050.00	
	<hr/>	\$20,000.00
First German church; Conant street:		
Building .....	\$5,000.00	
9,650 square feet of land.....	2,400.00	
	<hr/>	\$7,400.00
Pentacostal church:		
Building .....	\$2,030.00	
3,246 square feet of land.....	970.00	
	<hr/>	\$3,000.00
Residence pastor St. Paul's M. E. church; Union street, near Amherst:		
Building .....	\$2,500.00	
	<hr/>	\$2,500.00
Residence pastor First Congregational church; 590 Beech street, near Bridge:		
Building .....	\$3,000.00	
10,000 square feet of land.....	4,000.00	
	<hr/>	\$2,500.00
	<hr/>	\$7,000.00

Residence rector Grace Episcopal church; corner of Harrison and Union streets:			
Building .....	\$1,800.00		
19,000 square feet of land.....	5,700.00		
		<hr/>	\$2,500.00
			\$7,500.00
Residence rector St. Andrew's Episcopal church; Main street:			
Building on church lot.....	\$4,000.00		
		<hr/>	\$2,500.00
German School society; Third, Bath and Ferry streets:			
Building .....	\$5,000.00		
10,190 square feet of land.....	2,500.00		
		<hr/>	\$7,500.00
Swedish Evangelical Lutheran church; Beech avenue:			
Building .....	\$2,000.00		
5,500 square feet of land.....	275.00		
		<hr/>	\$2,275.00
German church; Conant and Green streets:			
Building .....	\$3,500.00		
5,000 square feet of land.....	750.00		
		<hr/>	\$4,250.00
Greek church; Pine street:			
Building .....	\$10,000.00		
10,000 square feet of land.....	1,800.00		
		<hr/>	\$11,800.00
Elliot Hospital, Protestant; East Manches- ter:			
Building .....	\$50,000.00		
Land .....	53,735.00		
		<hr/>	\$103,735.00
Elliot Hospital lot; Hanover street, corner Chestnut:			
Building .....	\$3,500.00		
7,300 square feet of land.....	\$36,500.00		
		<hr/>	\$40,000.00
Elliot Hospital:			
Land and buildings, Main street.....	\$5,800.00		
Land and buildings, Quincy street....	4,000.00		
		<hr/>	\$9,800.00
Elliot Hospital:			
69,470 square feet of land, Massabesic street .....			\$3,473.00

Elliot Hospital; Hospital avenue:		
Land, 32,950 square feet.....	\$1,648.00	
Elliot Hospital; 1/2 of 849-851 Chestnut street:		
Building .....	\$1,469.00	
8,250 square feet of land.....	1,031.00	
	<hr/>	\$2,500.00
Elliot Hospital; 717 Pine street:		
Building .....	\$2,150.00	
5,400 square feet of land.....	1,350.00	
	<hr/>	\$3,500.00
Women's Aid Home; Pearl street, corner Beech:		
Building .....	\$15,620.00	
57,530 square feet of land.....	14,380.00	
	<hr/>	\$30,000.00
Women's Aid Home; Bridge street, corner Chestnut:		
Buildings .....	\$10,981.00	
6,037 square feet of land.....	3,019.00	
	<hr/>	\$14,000.00
Manchester Children's Home; Webster street:		
Building .....	\$36,250.00	
55,000 square feet of land.....	13,750.00	
	<hr/>	\$50,000.00
Manchester Children's Home:		
7,191 square feet of land, Pearl street	\$2,750.00	
1,250 square feet of land, Elm street..	18,750.00	
Building .....	1,250.00	
5,000 square feet of land, 560 Beech street .....	2,500.00	
Building .....	2,000.00	
9,406 square feet of land, 266, 274 Orange street.....	2,350.00	
Building .....	2,650.00	
	<hr/>	\$32,250.00
Residence pastor Swedish Lutheran church; Sagamore street, corner Pine:		
Building .....	\$2,950.00	
10,200 square feet of land.....	2,550.00	
	<hr/>	\$2,500.00
		\$5,500.00
Residence pastor South Main Union church; 114 Carroll street:		
Building .....	\$2,500.00	
5,000 square feet of land.....	500.00	
	<hr/>	\$2,500.00
		\$3,000.00

## Gale Home:

One half Martin's block, Elm street...	\$30,000.00	
Land and building, Pearl street, corner Ash .....	51,500.00	
		<hr/> \$81,500.00

## Masonic Home, Beech street:

Building .....	\$25,810.00	
56,762 square feet of land.....	14,190.00	
		<hr/> \$40,000.00

One half land and buildings, 193 Pearl  
street .....

2,750.00

One half land and buildings, 266-274  
Orange street.....

5,000.00

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\$7,750.00

## Mercy Home, Mammoth road:

Building .....	\$2,500.00	
11.4 acres of land.....	4,500.00	
		<hr/> \$7,000.00

New Hampshire Settlement Association; 7-  
11 Walnut street:

Building .....	\$7,800.00	
8,000 square feet of land.....	3,200.00	
		<hr/> \$11,000.00

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\$985,904.00

## STATE PROPERTY.

## State armory:

State building .....	\$30,000.00	
24,000 square feet of land.....	24,000.00	
		<hr/> \$54,000.00

## State Industrial School:

State buildings .....	\$75,000.00	
151.2 acres.....	103,700.00	
		<hr/> \$178,700.00

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\$253,700.00

## COUNTY PROPERTY.

## Hillsborough county court house:

Building .....	\$20,000.00	
19,200 square feet of land.....	57,000.00	
		<hr/> \$77,000.00



PROPERTY EXEMPT FROM TAXATION.

Hillsborough county jail:

Building .....	\$75,000.00	
147,000 square feet of land.....	29,400.00	
	<u>          </u>	\$104,000.00
		<u>          </u>
		<u><u>\$181,400.00</u></u>

UNITED STATES PROPERTY.

United States postoffice:

Building .....	\$150,000.00	
30,322 square feet of land.....	37,900.00	
	<u>          </u>	\$187,900.00
		<u><u>          </u></u>

CEMETERIES.

Young road:

23,809 square feet of land.....	\$475.00	
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Mammoth road:

43,560 square feet of land.....	870.00	
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Bowman street:

79,777 square feet of land.....	7,977.00	
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Brown avenue:

12,025 square feet of land.....	200.00	
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Jewish; South Beech street:

1.3 acres land.....	560.00	
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           \$10,082.00

EXEMPT FROM TAXATION.

Catholic churches, schools, hospitals, institutions and parochial residences .....	\$1,833,354.00
Protestant churches, schools, hospitals, institutions and parochial residences .....	\$995,986.00
United States, state, and county property.....	\$623,000.00
	<u>          </u>
Total .....	\$3,452,340.00

TAXABLE.

Land and buildings, Catholic.....	\$90,300.00	
Land and buildings, Protestant .....	14,500.00	
	<u>          </u>	\$104,800.00
		<u>          </u>
Total exempt and taxable.....		<u><u>\$3,557,140.00</u></u>

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

Date of issue.	Description.	Number.	Denomin- ation.	Amount.	Total.	Date when the principal is pay- able	INTEREST.		
							Rate per ct.	When payable.	Where payable.
Dec. 15, 1895	Water bonds.	50	\$1,000	\$50,000	\$50,000	December 15, 1915	4	Semiannual	Second Nat. Bk., Boston, Mass.
Oct. 1, 1894	"	50	1,000	50,000	50,000	October 1, 1914	4	"	"
Nov. 1, 1913	"	100	1,000	100,000	100,000	{ \$20,000 Nov. 1, 1917 and \$20,000 an- nually thereafter. }	4	"	"
Jan. 1, 1897	"	100	1,000	100,000	100,000	January 1, 1917	4	"	"
July 1, 1895 } Refunded }	"	100	1,000	100,000	100,000	July 1, 1915	4	"	"
July 1, 1911 } Refunded }	Bridge bonds.	50	1,000	50,000	50,000	{ \$5,000 annually from July 1, 1914, to 1923, inclusive }	4	"	"
July 1, 1913	"	100	1,000	100,000	100,000	{ \$5,000 July 1, 1914 and \$5,000 annual- ly thereafter. }	4	"	"
April 1, 1905	City bonds.	50	1,000	50,000	50,000	April 1, 1925	3 1-2	"	"
" 1, 1907	"	50	1,000	50,000	50,000	" 1, 1927	4	"	"
" 1, 1909	"	50	1,000	50,000	100,000	" 1, 1929	3 1-2	"	"
June 1, 1894	Improv'm't bonds	100	1,000	100,000	100,000	" 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	"	"
" 1, 1910	"	100	1,000	100,000	100,000	" 1, 1890	3 1-2	"	"

STATEMENT OF BONDED DEBT.

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.—*Concluded.*

Date of issue.	Description.	Number.	Denomina- tion.	Amount.	Total.	Date when the principal is payable.	INTEREST.		
							Per cent.	When payable.	Where payable.
July 1, 1912	Improv'm't bonds.	95	1,000	95,000	95,000	{ \$5,000 annually from July 1, 1914, and to July 1, 1933, inclusive }	3 1-2	Semiannual	Second Nat. Bk., Boston, Mass.
July 1, 1895	School bonds.	20	1,000	20,000	20,000	{ \$10,000 July 1, 1914 and \$10,000 annually thereafter }	4	"	"
" 1, 1896	" "	40	1,000	40,000	40,000	July 1, 1916	4	"	"
July 1, 1911	" "	93	1,000	93,000	93,000	{ \$5,000 July 1, 1914, and \$5,000 annually to 1930 inclu., and \$3,000 July 1, 1931. }	3 1-2	"	"
April 1, 1899	City bonds.	100	1,000	100,000	100,000	April 1, 1919	3 1-2	"	"
July 1, 1902	Municipal bonds.	80	1,000	80,000	80,000	July 1, 1922	3 1-2	"	"
Oct. 1, 1910	Cemetery bonds.	21	1,000	21,000	21,000	October 1, 1930	3 1-2	"	"
July 1, 1913	" "	20	1,000	20,000	20,000	{ \$2,000 July 1, 1914, and \$2,000 annually to July 1, 1923, inclusive. }	4	"	"
Oct. 1, 1913	" "	.....	.....	6,700	6,700	October 1, 1933	4	"	"
Sept. 1, 1912	Fire alarm bonds	100	1,000	100,000	100,000	{ \$5,000 Sept. 1, 1914, and \$5000 annually to Sept. 1, 1932, inclusive, and \$10,000 Sept. 1, 1933. }	3 1-2	"	"
Oct. 1, 1914	Street & Sewer b'ds	100	1,000	100,000	100,000	{ \$5,000 October 1, 1914, and \$5,000 annually thereafter. }	4	"	"
					<u>\$1,775,700</u>				

REMARKS. The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$30,000 in cemetery bonds, so called, not negotiable, in the hands of the city treasurer, which are not included in the \$1,775,700.

Total amount of bonded debt, including cemetery bonds	\$1,805,700.00
Net indebtedness for water purposes.....	400,000.00

Net debt after deducting water debt.....	\$1,405,700.00
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As shown in the assessors' books for the year 1913:

The assessed value of personal property, including poll tax .....	\$12,044,439.00
The assessed value of real estate.....	57,163,861.00

Total value for taxation.....	\$69,208,300.00
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Tax rate, 1.52 percent on a hundred.

Percent of net indebtedness (excluding debt for water purposes) to assessed valuation.....	1.959
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Percent of net indebtedness (including debt for water purposes) to assessed valuation.....	2.516
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Population, census of 1910.....	70,063
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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, 1913, \$646,828.00.

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 debt January 1, 1913.....	\$1,829,000.00
Amount of notes January 1, 1913.....	12,850.00
Bonds issued during year.....	326,700.00
Notes issued during year.....	16,900.00
Accrued interest on bonded debt, December 31, 1913....	34,541.00

	\$2,219,991.00
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Amount of bonded debt paid in 1913.....	\$345,000.00
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Amount of notes paid in 1913.....	12,850.00
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	\$357,850.00
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Total indebtedness, December 31, 1913.....	\$1,862,141.00
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## STATEMENT OF INTEREST CHARGED.

199

## AVAILABLE ASSETS.

Net cash on hand December 31, 1913.....	\$222,817.12
Taxes uncollected, list of 1913.....	77,466.67
Stock of Suncook Valley Railroad, estimated value.....	20,000.00
Sinking fund December 31, 1913.....	646,828.00
	\$967,111.19

## STATEMENT OF THE ANNUAL INTEREST CHARGE ON THE BONDED DEBT.

Year.	Six percent Water bonds.	Four percent Water bonds.	Four and a half and five percent Water bonds.	Three and one-half and five percent Cemetery bonds.	Six percent to fund debt.	Four percent Bridge bonds.	Three and one-half and four percent to fund debt.	Four per cent. Improvement bonds and 3 1-2 percent City bonds.	3 1-2 and four percent School bonds and Granite bridge.	Total of annual interest.
1890..	\$27,000	\$6,000	.....	\$623.75	\$7,000	\$2,400	\$6,200	.....	.....	\$49,423.75
1891..	4,000	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	16,000	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
1900..	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	10,520	80,620.00
1901..	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	8,800	78,900.00
1902..	3,000	24,000	9,500	2,500.00	.....	2,400	6,200	20,850	8,200	76,650.00
1903..	.....	24,000	9,500	2,500.00	.....	2,400	6,200	22,300	6,400	73,300.00
1904..	.....	24,000	9,500	2,500.00	.....	2,400	6,200	22,300	6,000	72,900.00
1905..	.....	24,000	9,500	2,500.00	.....	2,400	4,200	24,050	5,600	72,250.00
1906..	.....	24,000	9,500	2,500.00	.....	2,400	4,200	24,050	5,200	71,850.00
1907..	.....	20,000	9,500	2,500.00	.....	2,400	4,200	24,050	4,800	67,450.00
1908..	.....	20,000	9,500	2,500.00	.....	2,400	4,200	24,050	4,400	67,050.00
1909..	.....	20,000	9,500	2,500.00	.....	2,400	4,200	23,050	4,000	65,650.00
1910..	.....	20,000	9,500	2,500.00	.....	2,400	4,200	22,650	4,000	65,250.00
1911..	.....	20,000	9,500	2,500.00	.....	2,400	2,200	29,700	6,805	73,105.00
1912..	.....	.....	9,500	3,235.00	.....	.....	7,700	24,765	6,805	68,005.00
1913..	.....	16,000	.....	3,303.00	.....	6,000	9,000	29,125	5,655	69,083.00

## Valuation of Real Estate Owned by the City.

## SCHOOLS.

High school, Beech street, corner Lowell:		
Building .....	\$200,000.00	
59,400 square feet of land.....	29,700.00	
	<hr/>	\$229,700.00
Franklin-street school, Franklin street, corner Pleasant:		
Building .....	\$16,000.00	
19,200 square feet of land.....	19,200.00	
	<hr/>	\$35,200.00
Spring-street school, Spring street:		
Building .....	\$13,000.00	
11,551 square feet of land.....	11,551.00	
	<hr/>	\$24,551.00
Lincoln-street school, Lincoln street, corner Merrimack:		
Building .....	\$50,000.00	
40,000 square feet of land.....	10,000.00	
	<hr/>	\$60,000.00
Ash-street school, Ash street, corner of Bridge:		
Building .....	\$55,000.00	
57,537 square feet of land.....	28,765.00	
	<hr/>	\$83,765.00
Main-street school, North Main street, West Manchester:		
Building .....	\$15,000.00	
40,293.4 square feet of land.....	16,000.00	
	<hr/>	\$31,000.00
Webster-street school, Webster street:		
Building .....	\$45,000.00	
55,714 $\frac{3}{4}$ square feet of land.....	16,710.00	
	<hr/>	\$61,710.00
Lowell-street school, Lowell street, corner Chestnut:		
Building .....	\$5,000.00	
9,650 square feet of land.....	9,650.00	
	<hr/>	\$14,650.00
Maynard school, Merrimack street, corner Union		
Building .....	\$31,000.00	
22,000 square feet of land.....	9,000.00	
	<hr/>	\$40,000.00

VALUATION OF REAL ESTATE OWNED BY THE CITY. 201

Parker school, South Main street, West Manchester:		
Building .....	\$25,000.00	
19,402 square feet of land.....	3,880.00	
	<hr/>	\$28,880.00
Bakersville school, Elm street, south:		
Building .....	\$18,000.00	
23,937 square feet of land.....	4,780.00	
	<hr/>	\$22,780.00
Stark District school, River road, north:		
Building .....	\$1,500.00	
43,560 square feet of land.....	500.00	
	<hr/>	\$2,000.00
Amoskeag school, Front street, Amoskeag:		
Building .....	\$9,000.00	
6,000 square feet of land.....	900.00	
	<hr/>	\$9,900.00
Rimmon school, corner Amory and Dubuque streets:		
Building .....	\$27,000.00	
16,600 square feet of land.....	3,320.00	
	<hr/>	\$30,320.00
Goffs Falls school, Goffe's Falls:		
Building .....	\$14,000.00	
47,916 square feet of land.....	500.00	
	<hr/>	\$14,500.00
Harvey District school, Nutt road:		
Building .....	\$2,000.00	
21,780 square feet of land.....	100.00	
	<hr/>	\$2,100.00
Webster Mills school, Webster Mills:		
Building .....	\$400.00	
5,445 square feet of land.....	100.00	
	<hr/>	\$500.00
Youngsville school, Youngsville:		
Building .....	\$14,000.00	
41,915 square feet of land.....	500.00	
	<hr/>	\$14,500.00
Mosquito Pond school, Mosquito Pond:		
Building .....	\$400.00	
10,890 square feet of land.....	100.00	
	<hr/>	\$500.00
Pearl-street school:		
Building .....	\$20,000.00	
21,331 square feet of land.....	4,260.00	
	<hr/>	\$24,260.00

Varney school, Bowman street, corner Mast, West Manchester:		
Building .....	\$43,750.00	
57,218 square feet of land.....	8,560.00	
	<hr/>	\$52,310.00
Hallsville school, Jewett street, corner Hayward, East Manchester:		
Building .....	\$47,800.00	
44,000 square feet of land.....	4,400.00	
	<hr/>	\$52,200.00
Straw school, Chestnut street, corner Har- rison:		
Building .....	\$30,000.00	
32,400 square feet of land.....	16,200.00	
	<hr/>	\$46,200.00
New Wilson school, Wilson, Cedar, and Au- burn streets:		
Building .....	\$40,000.00	
41,600 square feet of land.....	6,240.00	
	<hr/>	\$46,240.00
South Manchester school, Titus avenue:		
Building .....	\$12,000.00	
48,400 square feet of land.....	2,400.00	
	<hr/>	\$14,400.00
Chandler school, Concord street, corner Ashland:		
Building .....	\$40,000.00	
22,682 square feet of land.....	5,540.00	
	<hr/>	\$45,540.00
Brown school, corner Amory, Alsace, and Joliette streets:		
Building .....	\$30,000.00	
39,250 square feet of land.....	7,300.00	
	<hr/>	\$37,300.00
Total .....		<hr/> <hr/> \$1,024,006.00

## ENGINE-HOUSES.

Engine-house and stable, Central Station, Vine street:		
Building .....	\$31,800.00	
12,635 square feet of land.....	25,250.00	
	<hr/>	\$57,050.00
North Main-street engine-house, North Main street, West Manchester:		
Building .....	\$20,000.00	
17,950 square feet of land.....	7,180.00	
	<hr/>	\$27,180.00



VALUATION OF REAL ESTATE OWNED BY THE CITY. 203

Webster-street engine-house, Webster street, corner Chestnut:		
Building .....	\$25,000.00	
8,510 square feet of land.....	2,650.00	
	<hr/>	\$27,650.00
Merrimack engine-house, Lake avenue:		
Building .....	\$20,000.00	
10,000 square feet of land.....	3,000.00	
	<hr/>	\$23,000.00
Hosehouse and cottage, Maple street, corner East High:		
Building .....	\$3,000.00	
10,370 square feet of land.....	3,100.00	
	<hr/>	\$6,100.00
Engine-house, Rimmon and Amory streets, West Manchester:		
Building .....	\$25,000.00	
6,000 square feet of land.....	1,200.00	
	<hr/>	\$26,200.00
South Manchester hosehouse:		
Building .....	\$4,000.00	
4,425 square feet of land.....	880.00	
	<hr/>	\$4,880.00
Engine-house, Concord street, corner Weston:		
Building .....	\$7,000.00	
15,000 square feet of land.....	1,500.00	
	<hr/>	\$8,500.00
Hosehouse and wardroom, Somerville street:		
Building .....	\$18,000.00	
10,527.75 square feet of land.....	1,580.00	
	<hr/>	\$19,580.00
Hosehouse, Brown avenue, Goffe's Falls:		
Building .....	\$884.00	
2,337 square feet of land.....	116.00	
	<hr/>	\$1,000.00
		<hr/>
		\$201,140.00

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	
	<hr/>	\$65,000.00

City Hall, Elm street, corner Market:		
Building .....	\$40,000.00	
10,000 square feet of land.....	150,000.00	
		\$190,000.00
City Farm, Mammoth road:		
Building .....	\$5,000.00	
21.75 acres, west Mammoth road.....	47,350.00	
91.82 acres, east Mammoth road.....	76,975.00	
		\$129,325.00
Court House, Franklin street, corner West Merrimack:		
Building .....	\$20,000.00	
19,000 square feet of land.....	38,000.00	
		\$58,000.00
Battery building, Manchester street:		
Building .....	\$15,000.00	
3,400 square feet of land.....	2,040.00	
		\$17,040.00
Police station, Manchester street, corner Chestnut:		
Building .....	\$44,300.00	
10,408 square feet of land.....	10,400.00	
		\$54,700.00
City stable and other buildings, Franklin street:		
Building .....	\$24,100.00	
61,936 square feet of land.....	92,900.00	
		\$117,000.00
City yard, Lincoln, Hayward, Maple, and Valley streets:		
Buildings .....	\$2,000.00	
231,000 square feet of land.....	25,410.00	
		\$27,410.00
Police station, Clinton street, West Manchester:		
Building .....	\$4,000.00	
3,600 square feet of land.....	720.00	
		\$4,720.00
Ward 5 wardroom, Lake avenue:		
Building .....	\$4,500.00	
3,000 square feet of land.....	450.00	
		\$4,950.00
City stable, district No. 10.....		\$1,200.00
City scales, Franklin street:		
Building .....		\$300.00

VALUATION OF REAL ESTATE OWNED BY THE CITY. 205

Ward 2 wardroom, Blodget street :		
Building .....	\$2,500.00	
9,000 square feet of land.....	4,500.00	
	<hr/>	\$7,000.00
Hosehouse, Mammoth road :		
Building .....	\$1,000.00	
28,580 square feet of land.....	2,850.00	
	<hr/>	\$3,850.00
Two lots land, South Main, next to Parker school :		
11,829 square feet of land.....		\$1,500.00
		<hr/>
		\$680,495.00

**Personal Property Owned by the City.**

Property in care city engineer .....	\$1,350.00
chief engineer fire department.....	190,376.73
street & park commission (estimated)	32,336.67
superintendent of schools.....	55,441.25
city messenger .....	3,000.00
of chief of police and janitor.....	7,250.00
trustees city library.....	30,000.00
superintendent of Pine Grove Cemetery	2,246.87
superintendent of Valley Cemetery...	437.80
Stock in Suncook Valley Railroad, in care of city treasurer .....	20,000.00
Personal property in care city weigher.....	1,000.00
	<hr/>
	\$333,437.84
Uncollected taxes in 1913.....	\$77,466.07
Net cash in treasury December 31, 1913.....	222,817.12
	<hr/>
	\$300,283.19

**Other Real and Personal Estate Owned by the City.**

Soldiers' monument .....	\$25,000.00
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 .....	100,000.00
Granite bridge .....	150,000.00
South Main-street bridge, over Piscataquog river.....	30,000.00
Second-street bridge, over Piscataquog river.....	55,000.00
Granite-street bridge, over B. & M. R. R.....	6,000.00
Print-works bridge, on Granite, over lower canal.....	15,000.00

Two bridges in highway, district No. 9.....	\$2,000.00
One bridge at Goffe's Falls.....	3,500.00
Expended on construction of sewers.....	1,267,000.00
Gravel lot, Bridge street extension.....	500.00
Gravel lot, Goffstown, 2 acres.....	400.00
Fountains and water-troughs.....	3,600.00
	<hr/>
	\$1,696,600.00

PARKS AND CEMETERIES.

Valley Cemetery, 19.7 acres.....	\$230,000.00
Pine Grove Cemetery, Ursula chapel.....	16,000.00
Pine Grove Cemetery, about 262,65 acres.....	\$431,500.00
Amoskeag Cemetery, 1.23 acres.....	5,000.00
Stark park, 30 acres.....	60,000.00
Derryfield park, 76 acres.....	114,000.00
Concord common, 183,000 square feet of land.....	183,000.00
Tremont common, 98,065 square feet of land.....	49,000.00
Hanover common, 132,000 square feet of land.....	99,000.00
Park common, 157,800 square feet of land.....	78,900.00
Merrimack common, 256,500 square feet of land.....	769,500.00
Wagner's park, 429,250 square feet of land.....	6,430.00
Lafayette park, 90,500 square feet of land.....	45,200.00
Prout park, 223,601 square feet of land.....	22,300.00
East Side park, 19,363 square feet of land.....	5,000.00
Simpson park, 24,570 square feet of land.....	12,275.00
Parker common, 114,000 square feet of land.....	11,400.00
	<hr/>
	\$2,138,505.00

WATER-WORKS.

Real estate and personal property of water-works, at cost price .....	\$2,266,091.80
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CITY PROPERTY OWNED.

Land owned by the city, being deeded to the city on sale  
for taxes:

20 acres land, Dunbarton road.....	\$220.00
Lot 5, Derryfield Terrace, Oak Hill avenue.....	108.00
Lot 27, Derryfield Terrace, Mammoth road.....	110.00
Land Nutt road.....	80.00
Land Nutt road.....	35.00
Lot Porter street.....	200.00
Lot Taylor street.....	80.00
Lot Cilley road.....	80.00
Lot Hapgood land .....	10.00

VALUATION OF REAL ESTATE OWNED BY THE CITY. 207

Lot Elm street, rear of The Beacon.....	\$220.00
Lots 76, 77, Boutwell street.....	110.00
Lot 8, Orchard avenue .....	300.00
Lot 223, Revere avenue.....	100.00
Lot 305, Mystic avenue.....	100.00
Lots 288, 289, 290, Glenwood avenue.....	220.00
Lots 279, 280, Glenwood avenue.....	200.00
Lots 7, 8, Mammoth road.....	73.00
Lot 6,177, Clay street.....	715.00
Lot 68 and part 69, Shasta street.....	80.00
Lots 31, 32, Hoyt plan, Hall street.....	300.00
Lots 635 to 640, Hoyt plan, Hebert street.....	355.00
Lots 13, 14, block 17, Waltham street.....	20.00
Lots 102, Riverview plan, Harwich street.....	12.00
Lots 72, 73, 74, 75, Riverview plan, Westland avenue..	113.00
Lot 47, Riverview plan, Belair street.....	35.00
Lot 46, Riverview plan, Belair street.....	40.00
Lots 29, 30, 31, Riverview plan, Belair street.....	109.00
Lots 3, 4, Riverview plan, Brown avenue.....	75.00
Lots 220, 221, Riverview plan, Wolcott street.....	55.00
Lots, 364, 365, Riverview plan, Edgmere street.....	45.00
Lot 35, Glenwood plan, Patterson street.....	25.00
Lot 116, Glenwood plan, Harriman street.....	16.00
Lots 123, 124, Glenwood plan, Donahoe street.....	20.00
Lots 67, 68, Glenwood plan, Patterson street.....	60.00
Lots 75, 76, Glenwood plan, Harriman street.....	60.00
Lot 23, Glenwood plan, Boynton street.....	20.00
Lots 404, 405, Gilford street.....	80.00
Lots 209 to 218, Mammoth park, Fourth street.....	20.00
Lot 65, Cody plan, Cody street.....	100.00
Lot 263, Wilbur plan, Caron avenue.....	50.00
Lot 16, Page plan, Burlington street.....	25.00
Lots 15, 16, Lakeview Terrace, Groveland avenue....	40.00
Lots 176, 177, Lakeview Terrace, Groveland avenue...	32.00
Lots 185, 186, Lakeview Terrace, Groveland avenue...	24.00
Lot 130, Walker plan, Hillside street.....	25.00
Lot 79, Myrtle avenue .....	38.00
Lots 85, 86, Myrtle avenue.....	82.00
Lot 22, Groux plan, Centennial street.....	20.00
Lot 30, Groux plan, Christopher street.....	20.00
Lot 63, Groux plan, Isabella street.....	20.00
Lot 73, Groux plan, Centennial street.....	20.00
Lots 26, 27, 28, Woodlawn plan, Bowditch street....	30.00
Lots 150, 151, 152, Woodlawn plan, Brewster street...	30.00
Lots 153, 154, Woodlawn plan, Brewster street.....	20.00
Lots 56, 57, 58, 59, Woodlawn avenue.....	40.00
Lots, 30, 31, 32, 33, 34, Bowditch street.....	50.00

Lots 159, 160, 161, Woodlawn avenue.....	\$30.00
Lot 8, Boylston street.....	10.00
Lots 142, 143, Brewster street.....	20.00
Lot 79, Brunswick street.....	10.00
Lot 67, Brunswick street.....	10.00
Lot 29, Bowditch street .....	10.00
Lots 73, 107, Ingalls street.....	110.00

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\$5,267.00

RECAPITULATION.

Real estate owned by the city, schoolhouses.....	\$1,024,006.00
Real estate owned by city.....	680,495.00
Real estate owned by city, engine-houses.....	201,140.00
Water-works at cost price.....	2,266,091.80
Personal property owned by the city.....	333,437.84
Uncollected taxes and cash.....	300,283.19
Other real and personal property.....	1,696,600.00
Parks and cemeteries.....	2,138,505.00
Real estate purchased for taxes.....	5,267.00

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\$8,645,825.83

PROPERTY ACCOUNT.

Inventory of assets, December 31, 1913.....	\$8,645,825.83
Inventory of assets, December 31, 1912.....	8,331,877.56
Gain in valuation .....	\$313,948.27

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Auditor's Office.

City Hall building. Open from 9 to 12 A. M., 1.30 to 5 P. M.

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 percent 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.





**R E P O R T**  
**OF THE**  
**BOARD OF WATER COMMISSIONERS.**

## MANCHESTER WATER BOARD, 1913.

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### President.

CHARLES H. MANNING.

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### Members of the Board.

CHARLES C. HAYES, *Mayor, ex officio.*

PERRY H. DOW .....Term expires January, 1915  
EDGAR J. KNOWLTON.....Term expires January, 1916  
WALTER G. AFRICA.....Term expires January, 1917  
ROBERT E. MCKEAN.....Term expires January, 1918  
CHARLES H. MANNING.....Term expires January, 1919  
CHARLES M. FLOYD .....Term expires January, 1920  
EDGAR J. KNOWLTON, *Clerk.*

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### Superintendent of Works.

JAMES H. MENDELL.

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### Water Registrar.

JOHN L. WADE.

## COMMISSIONERS' REPORT.

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

GENTLEMEN :—The forty-second annual report of the Board of Water Commissioners is herewith respectfully submitted, and is accompanied by the reports of the Superintendent and the Registrar. For specific and detailed information as to the activities of the Department during the past year, and for information as to its finances, we would refer you to the accompanying reports.

The membership of the Board remains the same as one year ago, Hon. Charles M. Floyd, whose term expired, having been reëlected.

The year has been one of pronounced growth in this Department. The bonded indebtedness has been reduced by the payment of \$100,000, which matured August 1, leaving outstanding bonds in the sum of \$400,000. The sum of \$110,000 stands to the credit of the Department in its sinking funds, and deducting this amount from the unmatured bonds, the net indebtedness is but \$290,000. We have also refunded an issue of \$100,000 bonds bearing interest at 4½ per cent, making the interest on the new issue 4 per cent. The interest payment for the past year was \$21,482.50, a reduction during the year of \$5,500. In 1895 the demands for interest on the Department amounted to \$42,620, but through the beneficent workings of the sinking fund this has been reduced one half, and unless some exigency which cannot now be foreseen arises to call for a new issue of bonds, the bonded indebtedness of the Department will soon be only a memory.

The pumping record attained to heretofore unapproached figures, the excess pumped over the preceding year being more than 208,000,000 gallons. The total quantity pumped during the year was 1,692,697,762 gallons. Although the amount of water pumped was largely in excess of that in the year 1912 the cost of pumping was \$3,688.55 less than for the preceding year.

We have inaugurated a movement for the reforesting of the vacant land owned by the Department, and to this end caused to be set out more than 40,000 trees. It is proposed to continue this work on even a larger scale during the coming year. This departure, if persisted in, will within a few years become a source of substantial revenue to the city.

The Commissioners have continued the policy of purchasing land bordering on the lake shore whenever it could be bought at reasonable figures, and made an expenditure of \$14,050 in following out

this general plan, which increases the acreage owned by the city to practically 1,800 acres, giving the Department the absolute control of fully 82 per cent of the lake shore. The area of the lake is 2,350 acres.

While the Department has had no unusually important work during the year its attention has been devoted to increasing the general efficiency of the plant. New mains, three miles in extent, have been laid, 246 services put in, 17 new hydrants set and 39 gates put in. Improvements have been made on the buildings and about the grounds at both the high and low pressure pumping stations.

#### COMMISSIONERS' TERM OF SERVICE.

E. A. Straw,	1871-1875; died October 23, 1882.
William P. Newell,	1871-1885; died October 11, 1885.
Aretas Blood,	1871-1880; died November 24, 1897.
Alpheus Gay,	1871-1902; died April 21, 1902.
Andrew C. Wallace,	1871-1889; died March 26, 1889.
E. W. Harrington,	1871-1876; died July 11, 1876.
James A. Weston,	1875-1895; died May 8, 1895.
J. Q. A. Sargent,	1876-1880; died March, 24, 1897.
Eben T. James,	1880-1886; died May 31, 1899.
Edward H. Hobbs,	1880-1890; died November 26, 1890.
Joseph F. Kennard,	1885-1892; died November 7, 1892.
Henry Chandler,	1886-1900; died October 20, 1900.
Charles H. Manning,	1890 to date.
Charles T. Means,	1892-1902; died January 25, 1902.
Frank Dowst,	1899-1905; died December 25, 1905.
Harry E. Parker,	1895-1906; died August 1, 1906.
Edgar J. Knowlton,	1900 to date.
Charles M. Floyd,	1902 to date.
William Corey,	1902-1912; died August 23, 1912.
Robert E. McKean,	1905 to date.
Perry H. Dow,	1906 to date.
Walter G. Africa,	1912 to date.

#### FIRST BOARD OF WATER COMMISSIONERS.

William P. Newell.  
 Ezekiel A. Straw, *President*.  
 Aretas Blood.  
 Alpheus Gay.  
 Andrew C. Wallace.  
 Edward W. Harrington.  
 Person C. Cheney, *Mayor, ex officio*.  
 Samuel N. Bell, *Clerk*.

## PRESENT BOARD OF WATER COMMISSIONERS.

Charles C. Hayes, *Mayor, ex officio.*

Charles H. Manning, *Chairman.*

Edgar J. Knowlton, *Clerk.*

Charles M. Floyd.

Perry H. Dow.

Robert E. McKean.

Walter G. Africa.

## MAYORS WHO HAVE SERVED EX OFFICIO.

James A. Weston, 1871, 1874.

Person C. Cheney, 1872.

Charles H. Bartlett, John P. Newell, 1873.

Alpheus Gay, 1875.

Ira Cross, 1876, till August 20, 1877.

Patrick A. Devine, as Chairman of the Board of Mayor and Aldermen, August 20 to September 4.

John L. Kelley, September 4, 1877, 1880.

Horace B. Putnam, 1881, 1884.

George H. Stearns, 1885, 1886.

John Hosley, 1887, 1888.

David B. Varney, 1889, 1900.

Edgar J. Knowlton, 1891, 1894.

David B. Varney, May and June, 1904.

Byron Worthen as Chairman of Board of Mayor and Aldermen, July to December, 1894.

William C. Clarke, 1895, 1902.

Eugene E. Reed, 1903, 1910.

Edward C. Smith, 1911, 1912.

Charles C. Hayes, 1912.

## PRESIDENTS OF THE BOARD.

Ezekiel A. Straw, 1871 to 1875.

Alpheus Gay, December 9, 1876, to April 21, 1902.

Charles H. Manning, May, 1902, to date.

## CLERKS OF THE BOARD.

Samuel N. Bell, 1871 to October 25, 1877.

James A. Weston, 1877 to May, 1895.

Henry Chandler, 1895 to October 20, 1900.

Arthur E. Stearns, November, 1900, to December, 1911.

Edgar J. Knowlton, December, 1911, to date.

## SUPERINTENDENTS.

Charles K. Walker, March 1, 1875, to April 1, 1912.

James H. Mendell, April 1, 1912, to date.

Respectfully submitted,

CHARLES H. MANNING, *Chairman,*

CHARLES M. FLOYD,

PERRY H. DOW,

EDGAR J. KNOWLTON, *Clerk,*

WALTER G. AFRICA,

ROBERT E. MCKEAN,

CHARLES C. HAYES, *Mayor, ex officio,*  
*Water Board.*

## SUPERINTENDENT'S REPORT.

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*To the Honorable Board of Water Commissioners :*

GENTLEMEN—I herewith present a brief record of the work of the Water Department, and the general condition of the plant and equipment for the year ending December 31, 1913.

### MAINS.

The system of mains has been extended during the year 1913 3.205 miles, as follows :

16 feet	20-inch pipe	1	20" gate
864 feet	12-inch pipe	3	12" gates
4,419 feet	8-inch pipe	5	8" gates
11,177 feet	6-inch pipe	27	6" gates
512 feet	4-inch pipe	3	4" gates
728 feet	of main pipe has been lowered.		
98	leaks have been repaired in mains.		
27	leaks have been repaired in standpipes.		

### SERVICES.

During the year 246 new services have been installed, 152 old services relaid, making a total of 7,598 in use. The Department finds the matter of street service leaks of growing concern; during the year we have been obliged to repair and relay 255 street services on account of leaks.

### HYDRANTS.

Seventeen additional hydrants have been installed during the year, making a total of 958 hydrants. Ten have been repaired and reset, and all have been tested for winter service.

### METERS.

Two hundred and sixty-four meters were added during the year, making a total of 5,953 in use December 31, 1913. Seventy per cent of the services are metered. Two hundred and forty-six meters have been sent back to the makers for tests and repairs and have been re-installed. All of the meters tested and repaired were found to be in favor of the consumer, some few of them as high as 50 per cent.

## PUMPING.

The equipment at the high service station is in good working condition and all of it is in readiness for service at all times. The old Worthington pumps have been used more this year than before for a good many years and are in excellent condition. There have been some improvements made in the grounds, a cement wall having been built from the mouth of the brook south of the station around to the front of the station, a distance of 702½ feet. The filling back of this wall will be completed next year, and when this is done the improvement at this station will be very great. The interior of the station has been painted during the year and the tenements and out-buildings are all in good general repair. Mr. Whitney resigned March 1 and Mr. McDonald has had charge of the high service station since.

At the low service station both the electric and the water pumps are in good condition. This station and out-buildings are also in good general repair, the interior of the station having been painted and the roofs gone over.

A large part of this work has been performed by our regular men when we were unable to do other work.

## RESERVOIRS.

At the low service reservoir some of the capping stones should be relaid and the grounds refenced this coming year. The leak which developed at this reservoir last year was greatly reduced by the laying of the new 24-inch main, so that the leak at the present time is very small.

The high service reservoir is in good condition.

## FORESTRY.

Late in the year 1912 it was thought advisable to start some forestry work to improve and protect our watershed. After going over our land with the State Forester, he advised that we plant pine seedlings. Following his advice we prepared the land south of the high service station, which was burned over in 1910, and in April set out 23,000 three-year-old pine seedlings, and in the old orchard on the Island Pond road 6,000 four-year-old pine seedlings. Although the summer was unusually dry our loss was very small, being less than 15 per cent. We have set 12,000 more four-year-old seedlings this fall, and I recommend setting 50,000 the coming year. The benefit from this work will be threefold; it will protect and keep our watershed clean, stop evaporation, and with judicious cutting and planting will in the near future be a source of income to the city. All of this work has been done under the direction and with the assistance of the State Forester, Mr. Hirst, and I wish at this time to express my thanks for his kind assistance and coöperation.



## ENGINEERING.

Extensive work has been done in getting accurate and complete locations of gates and street service boxes. Many of these measurements have been retaken by the engineer, as locations copied from time to time are sure to result in inaccuracy. This fact has been apparent in our work this year, as many of the old measurements have been found to vary several feet from the actual distance; then, too, old landmarks have been removed, thus making it necessary to establish new ones. The field work on these locations is pretty well completed, and I hope that the coming year will see our card system finished, with one set for the work room and one set for the office.

## IN GENERAL.

The winter of 1913 was unusually mild and none of our pipes were frozen.

Owing to the extremely dry weather in June, July and August all of the pumping was done at the high service station for both reservoirs, using the Worthington pumps for pumping into the low service reservoir and the Snow pump for pumping into the high service reservoir.

We have devoted all of our spare time to improvements, and have accomplished a great deal in this line, and although the general efficiency and condition of the Works is very good, there still remains much to be done.

We have carefully considered and investigated all complaints, and all practical measures have been taken to meet the needs of the citizens of Manchester.

Following will be found detailed records and statistics given in the endeavor to make plain to all the full operations of the Department.

Respectfully submitted,  
JAMES H. MENDELL,  
*Superintendent.*

# REPORT OF WATER REGISTRAR.

CITY OF MANCHESTER, December 31, 1913.

*To the Board of Water Commissioners :*

GENTLEMEN—I herewith present to you a detailed statement of the receipts and expenditures of the Water Works Department for the year ending December 31, 1913.

I would call your attention to the large amount rebated this year, \$1,041.77 was in January on the 1912 bills, as it was decided to change back to the old system instead of closing our books quarterly.

## RECEIPTS.

Amount on hand December 31, 1912.....		\$19,476.22
Received for water by rate.....	15,643.83	
Received for water by meter.....	122,194.69	
Received for building purposes.....	579.80	
Received for fines.....	478.20	
	\$138,896.52	
Less rebates .....	1,122.41	
	\$137,774.11	
Other receipts:		
Pipe .....	\$95.58	
Cutting ice .....	20.00	
Material and labor.....	589.40	
Repairs to meters.....	10.00	
Wood .....	2,038.40	
Sundries .....	9.52	
Old iron .....	52.25	
Rent .....	602.00	
Grass and apples.....	65.00	
Circus .....	17.00	
	\$3,499.15	
Hydrant rentals .....	23,525.00	
	\$164,798.26	
Total income for 1913.....		\$184,274.48

## EXPENDITURES.

General construction and maintenance....	\$79,304.19	
Land purchased .....	14,050.00	
Paid into sinking fund.....	40,000.00	
Paid to make up balance of bonds refunded	712.00	
Paid for interest on water bonds.....	21,482.50	
Hydrant rentals set aside for sinking fund	23,525.00	
Set aside for payment of 1897 bonds.....	5,000.00	
		<hr/>
		184,073.69
Amount on hand December 31, 1913.....		\$200.79

## GENERAL CONSTRUCTION.

New mains and extensions.....	\$18,969.67	
Services .....	10,064.65	
Hydrants .....	553.44	
Meters .....	4,635.08	
		<hr/>
		\$34,222.84

## GENERAL MAINTENANCE.

Repairs on mains and services.....	\$3,818.35	
Tools and repair of tools.....	1,575.42	
Current expense account.....	8,347.90	
Automobile account .....	1,250.98	
High service station.....	10,305.89	
Low service station.....	4,821.52	
Standpipes and watering troughs.....	171.30	
Taxes and legal expenses.....	\$759.98	
Rental of land.....	100.00	
Cleaning up around lake and forestry....	4,280.99	
Repairs and reading meters.....	3,256.80	
Improvements .....	4,353.63	
Garage .....	235.89	
Yard .....	156.84	
Police protection at lake.....	1,070.86	
Commissioners' meetings .....	575.00	
		<hr/>
		\$45,081.35
Land purchased.....	14,050.00	
Paid into sinking fund.....	40,000.00	
Paid to make up balance of bonds refunded.....	712.00	
Paid for interest on water bonds.....	21,482.50	
Hydrant rentals set aside for sinking fund.....	23,525.00	
Set aside for sinking fund, payment of 1897 bonds.....	5,000.00	
		<hr/>
		\$184,073.69

## CLASSIFIED EXPENSES FOR GENERAL CONSTRUCTION, 1913.

## NEW MAINS AND EXTENSIONS.

Iron pipe and specials.....	\$7,733.42	
Gates, gate boxes and valves.....	455.56	
Lead and gaskets.....	1,140.36	
Domes, covers and castings.....	143.54	
Freight, express and teaming.....	93.89	
Copper screens for gate house.....	65.98	
Gasoline and oil.....	918.28	
Dynamite, exploders, nails, lags, etc.....	232.58	
Sharpening drills, picks and blacksmithing	368.83	
Rubber boots.....	93.66	
Brick, cement, Akron pipe.....	70.56	
Car tickets.....	131.00	
Damage claim.....	25.00	
Labor .....	7,497.01	
		<hr/>
		\$18,969.67

## SERVICES.

Lead-lined iron pipe.....	\$1,600.44	
Stopcocks, curb boxes, goose necks.....	1,378.00	
Freight and express.....	21.13	
Telephone .....	22.00	
Gas, solder, packing, washers, sundries....	238.07	
Teaming .....	804.06	
Sharpening tools .....	184.41	
Car tickets.....	47.50	
Repairing street.....	55.40	
Mason labor and cement.....	60.21	
Labor .....	5,653.43	
		<hr/>
		\$10,064.65

## HYDRANTS.

New hydrants .....	\$400.56	
Bolts .....	2.88	
Labor .....	150.00	
		<hr/>
		\$553.44

## METERS.

Meters and fittings.....	\$2,508.00	
Express and freight .....	27.58	
New meter boxes.....	84.68	
Labor and teaming.....	2,014.82	
		<hr/>
		\$4,635.08

Cost of general construction.....	<hr/>	\$34,222.84
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## CLASSIFIED EXPENSES FOR GENERAL MAINTENANCE, 1913.

## REPAIRS ON MAINS AND SERVICES.

Pipe, lead and fittings.....	\$1,121.25	
Trucking .....	147.50	
Labor .....	2,549.60	
		<hr/>
		\$3,818.35

## TOOLS AND REPAIRS OF TOOLS.

Derricks .....	\$206.00	
Tool house .....	170.03	
Hose .....	165.15	
Service pump .....	7.75	
Grindstone .....	13.00	
Repair of boiler.....	135.00	
Picks, shovels, pails, cutters, drills, etc....	510.04	
Labor .....	368.45	
		<hr/>
		\$1,575.42

## CURRENT EXPENSE ACCOUNT.

Salaries and clerical hire.....	\$6,909.57	
Stationery, printing and postage.....	547.70	
Telephone .....	51.79	
Lighting .....	72.97	
Difference on adding machine.....	252.35	
J. E. Holmes' bill.....	33.00	
Desk and chair.....	36.00	
Addressographing .....	318.55	
Office supplies.....	125.97	
		<hr/>
		\$8,347.90

## AUTOMOBILE ACCOUNT.

Insurance .....	\$103.00	
New tires.....	610.74	
Chains and new drip pan.....	52.53	
Supplies .....	189.14	
Repairs .....	295.57	
		<hr/>
		\$1,250.98

## HIGH SERVICE STATION.

Labor .....	\$5,429.76	
Fuel and cartage.....	3,981.46	
Telephone and electric lights.....	266.25	
Oils and supplies.....	441.06	
Repairs and tools.....	187.36	
		<hr/>
		\$10,305.89

## LOW SERVICE STATION.

Labor .....	\$2,723.38	
Fuel and cartage.....	171.94	
Telephone and electric lights.....	111.13	
Electric power .....	1,454.25	
Oil and supplies.....	64.25	
Repairs and tools.....	49.90	
Painting .....	204.07	
Spraying trees and picking moths.....	42.60	
		<hr/>
		\$4,821.52

## STANDPIPES AND WATERING TROUGHS.

Valves, unions and pipe.....	\$21.90	
Labor .....	149.40	
		<hr/>
		\$171.30

## TAXES AND LEGAL EXPENSES.

Taxes on property in Auburn, N. H.....	\$757.10	
Recording deeds .....	2.88	
		<hr/>
		\$759.98

## RENTAL OF LAND.

Annual rental of S. C. Pennock property.....		\$100.00
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## CLEANING UP AROUND LAKE AND FORESTRY.

Labor and trucking.....	\$3,440.15	
Car tickets .....	37.50	
Pine seedlings .....	293.30	
Hauling wood .....	437.50	
Wedges, saws and rope.....	72.54	
		<hr/>
		\$4,280.99

## REPAIRING AND READING METERS.

Repairs to meters and replacing boxes....	\$664.50	
Reading meters .....	2,592.30	
		<hr/>
		\$3,256.80

## IMPROVEMENTS.

Shrubs and seeds .....	\$135.21	
Concreting low service station.....	291.38	
Concreting front walk office.....	29.08	
Repairing roof high service station.....	53.54	
Repairing fence low service station.....	13.69	

Lumber nails, etc.....	\$83.11	
Cement, crushed stone and teaming.....	924.72	
Repairs to Emery house.....	97.96	
Repairs to Moulton house.....	14.52	
Labor .....	2,710.42	
		<hr/>
		\$4,353.63

## GARAGE.

Piping for heating.....	\$233.74	
Bolts, screws and clamps.....	2.15	
		<hr/>
		\$235.89

## YARD.

Frost-proof closet.....	\$18.00	
Sand .....	19.00	
Paint, oil and lead.....	25.85	
Lumber and nails.....	4.16	
Rent and repairs to side track.....	89.83	
		<hr/>
		\$156.84

## POLICE PROTECTION AT LAKE.

Allowance for uniforms.....	\$50.00	
Placards and posting.....	11.68	
Gasoline, oil, batteries and supplies.....	32.98	
Labor .....	976.20	
		<hr/>
		\$1,070.86

## COMMISSIONERS' MEETINGS

C. H. Manning .....	\$130.00	
Charles H. Floyd.....	75.00	
Perry H. Dow.....	60.00	
E. J. Knowlton .....	70.00	
E. J. Knowlton, clerk.....	100.00	
W. G. Africa .....	70.00	
R. E. McKean .....	70.00	
		<hr/>
		\$575.00
		<hr/>
Cost of general maintenance.....		\$45,081.35

## LAND PURCHASED.

W. H. Griffin, 128 acres in Auburn, N. H. . . . .	\$5,000.00
Byron Rollins, 75 feet shore front.....	900.00
H. K. Webster, 3 islands (Grape Islands) ..	600.00
Fred Borden, 50 feet shore front.....	750.00
M. E. Carrier, land and buildings.....	3,000.00

Fanny Merrill, 89 feet shore front and other land .....	\$3,500.00	
Harriet Coffin, on account of land in Au- burn .....	300.00	
		<hr/>
		\$14,050.00
Paid into the sinking fund.....		40,000.00
Paid to make up balance of bonds refunded.....		712.00
Paid for interest on water bonds.....		21,482.50
Hydrant rentals set aside for sinking fund.....		23,525.00
Set aside for sinking fund, payment of 1897 bonds.....		5,000.00
		<hr/>
Total expenditures for the year 1913.....		\$184,073.69

## BONDED INDEBTEDNESS.

October 1, 1894, rate 4%, due October 1, 1914.....	\$50,000.00
July 1, 1895, rate 4%, due July 1, 1915.....	100,000.00
December 16, 1895, rate 4%, due December 16, 1915.....	50,000.00
January 1, 1897, rate 4%, due January 1, 1917.....	100,000.00
November 1, 1913, rate 4%, due November 1, 1917.....	20,000.00
November 1, 1913, rate 4%, due November 1, 1918.....	20,000.00
November 1, 1913, rate 4%, due November 1, 1919.....	20,000.00
November 1, 1913, rate 4%, due November 1, 1920.....	20,000.00
November 1, 1913, rate 4%, due November 1, 1921.....	20,000.00
	<hr/>
	\$400,000.00
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## 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 .....	18,100.00
1899 .....	5,000.00
1900 .....	18,425.00
1900 .....	5,000.00
1901 .....	18,575.00
1901 .....	5,000.00
1902 .....	18,800.00
1902 .....	5,000.00
1903 .....	19,200.00
1903 .....	5,000.00
1904 .....	19,450.00



1904 .....	\$5,000.00
1905 .....	19,550.00
1905 .....	5,000.00
1906 .....	20,075.00
1906 .....	5,000.00
1907 .....	20,625.00
1907 .....	5,000.00
1908 .....	20,925.00
1908 .....	5,000.00
1909 .....	21,275.00
1909 .....	5,000.00
1910 .....	22,025.00
1910 .....	5,000.00
1911 .....	22,450.00
1911 .....	5,000.00
1912 .....	23,075.00
1912 .....	5,000.00
1913 .....	23,525.00
1913 .....	5,000.00
1913 .....	40,000.00
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	\$520,200.00
Interest to December 31, 1912.....	85,500.78
Interest for 1913.....	4,901.05
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	\$610,601.83

PAID FROM SINKING FUND.

Retiring bonds January 1, 1902.....	\$100,000.00	
Retiring bonds January 1, 1907.....	100,000.00	
Retiring bonds July 1, 1910.....	100,000.00	
Retiring bonds January 1, 1912.....	100,000.00	
Retiring bonds August 1, 1913.....	100,000.00	
	<hr/>	500,000.00
		<hr/>
		\$110,601.83
Paid accrued interest on bonds purchased.....		4.44
		<hr/>
Balance on hand.....		\$110,597.39
		<hr/>
Cash in general sinking fund.....	\$25,597.39	
Cash in special sinking fund, 1897 bonds.....	85,000.00	
	<hr/>	\$110,597.39
		<hr/>
Total cost of construction of works to Dec. 31, 1913....	\$2,318,670.45	

Respectfully submitted,

JOHN L. WADE,  
Registrar.

## WATER PIPE LAID IN 1913.

LOCATION OF PIPE.	Size in inches.	Material	Length in feet.	Cost.
Abbott St.—Southwest from Glenwood Ave.	6	Cast iron	177	\$115.14
Adams St., North—North from Carpenter	6	" "	320	268.80
Amherst St.—Highland to Hilton	6	" "	210	166.90
Amherst St.—East from Hilton	6	" "	139	165.21
Ash St.—North from Salmon	6	" "	236	222.04
Batchelder Ave.—South from Hayward	6	" "	217	155.38
Beech St.—North from Webster	12	" "	264	464.30
Buzzell St.—South from Bridge	4	" "	170	124.50
Candia Rd.—Schoolhouse to Lake Shore Rd.	8	" "	924	5,548.50
Candia Rd.—Lake Shore Rd. to Massabesic Pavilion	6	" "	2,775	
Cedar St.—East of Hall	6	" "	143	86.63
Coolidge Ave.—Labreque to north of Rimmon	8	" "	1,064	1,034.13
Coolidge Ave.—Branches to hydrants	6	" "	36	
Elliott Place—East from River Rd.	4	" "	296	177.50
Farmer St.—West from Candia Rd.	6	" "	150	333.25
Grove St.—Wilson to Belmont	6	" "	827	674.53
Hevey St.—North of Mason	6	" "	260	201.63
High St., East—Weston to Highland	6	" "	433	396.87
Hilton St.—South from Amherst	6	" "	136	223.29
Holly Ave.—West from Belmont	6	" "	145	95.05
Howe St.—West from Hall	6	" "	284	218.26
Hudson St.—East from Knowlton	8	" "	220	221.62
Hudson St.—Branch to hydrant	6	" "	8	
Johnson St.—East from Knowlton	8	" "	168	186.49
Johnson St.—Branch to hydrant	6	" "	8	
Knowlton St.—From south of Hayward to Hudson	6	" "	394	243.16
Lamprey St.—West from Mast Rd.	6	" "	473	367.57
Laurel St.—East of Cass	6	" "	145	116.67
Levering St.—South of Glenwood Ave.	6	" "	146	93.97
Maple St.—Prescott to Hayward	6	" "	322	279.30
McNeil St.—West from Second	6	" "	160	105.47
Marlboro St.—West from Bowman	6	" "	150	200.50
Mason St.—Rimmon to Coolidge	12	" "	270	383.76
Merrill St.—West of Mason	6	" "	321	278.76
Mystic Ave.—North from Candia Rd.	6	" "	225	153.34
Patterson St.—Northeast from Sheridan	6	" "	256	154.84
Prescott St.—East from Maple	6	" "	219	136.85
Ray St.—Webster to Appleton	6	" "	279	193.10
Ray St.—North of Clark	6	" "	382	307.98
Reed St.—North from Kelly	6	" "	118	91.52
Reed St.—North from Bremer	6	" "	162	114.68
Rimmon St.—Mason to Coolidge Ave.	12	" "	330	451.10
Sagamore St.—West of Smyth Rd.	6	" "	44	34.91
Smyth Rd.—Sagamore to south of Webster	8	" "	2,043	2,720.22
Smyth Rd.—South from Webster to 8-inch	6	" "	254	
Sylvester St.—Dickey to Fenton	6	" "	238	180.32
Valley St.—Textile Field service	4	" "	46	76.03
Wallace St.—Southwest from Winter	6	" "	183	168.02
Webster St.—West from Smyth Rd.	6	" "	202	150.03

## LOCATION OF GATES ON MAINS SET IN 1913.

STREET.	LOCATION.	SIZE. (inches).
Adams street, north.....	North line of Carpenter.....	6
Amberst street.....	West line of Hilton.....	6
Ash street.....	North line of Salmon.....	6
Batchelder avenue.....	South line of Hayward.....	6
Beech street.....	North line of Webster.....	12
Buzzell street.....	South line of Bridge.....	4
Candia road.....	At Groveland avenue.....	8
Candia road.....	On hydrant branch at Groveland Ave.	6
Candia road.....	On hydrant branch.....	6
Candia road.....	On hydrant branch at pavilion.....	6
Candia road.....	On branch to Burke's.....	6
Coolidge avenue.....	On hydrant branch near No. 304.....	6
Coolidge avenue.....	South line of Mason.....	8
Coolidge avenue.....	West line of Rimmon.....	8
Coolidge avenue.....	On hydrant branch corner Rimmon..	6
Elliott place.....	East line of River road.....	4
Farmer street.....	West line of Candia road.....	6
Grove street.....	West line of Belmont.....	6
Hevey street.....	North line of Mason.....	6
High street, east.....	East line of Weston.....	6
Kelley street.....	East line of Joliette.....	6
Knowlton street.....	North line of Johnson.....	6
Lamprey street.....	South line of Mast road.....	6
Low service station.....	On force main near station.....	20
Maple street.....	South line of Hayward.....	6
Marlboro street.....	West line of Bowman.....	6
Mason street.....	West line of Coolidge avenue.....	12
Merrill street.....	On hydrant branch corner Mason....	6
Ray street.....	North line of Webster.....	6
Ray street.....	North line of Clarke.....	6
Reed street.....	North line of Kelley.....	6
Rimmon street.....	South line of Coolidge avenue.....	12
Smyth road.....	North line of Sagamore.....	8
Smyth road.....	Near hydrant between Sagamore and Webster.....	8
Sylvester street.....	North line of Dickey.....	6
Valley street.....	On service to Textile Field.....	4
Wallace street.....	South line of Winter.....	6
Webster street.....	West line of Pine.....	6
Webster street.....	West line of Smyth road.....	6

## PIPE LAID AND GATES SET DURING 1913.

DIAMETER OF PIPE	LENGTH	MATERIAL	GATES
4-inch	466 feet	Cast-iron	3
6-inch	11,177 feet	"	27
8-inch	4,419 feet	"	5
12-inch	864 feet	"	3
20-inch			1
	16,926 feet		39

Lowered 622 feet of 6-inch pipe on Webster street.

Lowered 66 feet of 6-inch pipe on Pine street

Lowered 40 feet of 6-inch pipe on Liberty street.

New hydrants set during 1913, 17.

Old hydrants reset during 1913, 20.

## ANNUAL OFFICIAL REPORT.

## HEIGHT OF WATER AT DAM.

January	1.	11	inches above dam.
February	1.	22.25	inches above dam.
March	1.	20	inches above dam.
April	1.	36	inches above dam.
May	1.	29	inches above dam.
June	1.	26	inches above dam.
July	1.	12	inches above dam.
August	1.	0	top of dam.
September	1.	6	inches below dam.
October	1.	9.25	inches below dam.
November	1.	2	inches above dam.
December	1.	3.25	inches above dam.

Highest water, March 29, 37 inches above dam.

Lowest water, Sept, 17-21, 10 inches below dam.

## RAINFALL HIGH SERVICE STATION, 1913.

January.	2.07 inches	July.	0.83 inches
February.	2.58 inches	August.	4.26 inches
March.	5.66 inches	September.	3.65 inches
April.	2.88 inches	October.	6.63 inches
May.	3.32 inches	November.	1.80 inches
June.	0.31 inches	December.	2.97 inches

Total rainfall, 36.96 inches.

## SNOWFALL, 1913.

January.	3.25 inches	November.	9.00 inches
February.	13.75 inches	December.	9.25 inches

Total snowfall, 35.50 inches.

## FIRE SERVICE PIPES IN USE DECEMBER 31, 1913.

NAME.	STREET.	SIZE.
American Locomotive Co.....	Elm corner Valley.....	4" pipe and gate
Amoskeag Bank Bldg.....	Hanover corner Elm.....	8" " " "
Amoskeag Mfg. Co.....	Granite St.....	12" " " "
Amoskeag Mfg. Co.....	McGregor St., No. 11 Mill.....	6" " " "
Amoskeag Mfg. Co.....	McGregor St.....	6" " " "
Amoskeag Mfg. Co.....	No. Main St., Weave Shed.....	6" " " "
Amoskeag Mfg. Co.....	Turner St.....	8" " " "
Baldwin's Bobbin Shop.....	187 Mast St.....	6" " " "
Batchelder-Worcester Co.....	Maple St.....	6" " " "
Cohas Bldg. Association.....	Willow St.....	6" " " "
Connor, D.....	41 Union St.....	4" " " "
County jail.....	Willow St.....	4" " " "
Derryfield Co.....	Beech St.....	6" " " "
Derryfield Co.....	Beech St.....	4" " " "
Derryfield Realty Co.....	Glenwood Ave.....	6" " " "
Derryfield Realty Co.....	Glenwood Ave.....	6" " " "
East Side Shoe Co.....	Hall St.....	6" " " "
East Side Shoe Co.....	Hall St.....	6" " " "
Eaton Heights Shoe Co.....	Page St.....	4" " " "
Elliott Silk Mill.....	Wilson St.....	6" " " "
Fellows & Son.....	Pine St.....	2" " " "
Fellows & Son.....	Pine St.....	6" " " "
Hanover St. Garage.....	143 Hanover St.....	6" " " "
Harrington, P. & Sons.....	317 Elm St.....	2" " " "
Hill, C. H. Co.....	Cedar and Canal.....	4" " " "
Hodge, J.....	485 Elm St.....	4" " " "
Imos Wrapper Co.....	67-71 Hall St.....	6" " " "
Jones' Brewery.....	Hancock St.....	4" " " "
Kennard Bldg.....	1008 Elm St.....	4" " " "
Kimball Carriage Co.....	Silver St.....	6" " " "
Kimball Carriage Co.....	83 W. Central St.....	6" " " "
Kimball Shoe Co.....	Cypress corner Massabesic.....	6" " " "
Leighton Machine Co.....	Hayward St.....	6" " " "
McDonald School.....	Laurel corner Union.....	2" " " "
McElwain Co.....	Brown Ave.....	6" " " "
McElwain Co.....	Byron St.....	8" " " "
Manchester Electric Light Co.....	West Brook St.....	4" " " "
Manchester Street Railway.....	Depot and Franklin Sts.....	6" " " "
Manchester Street Railway.....	Depot and Franklin Sts.....	6" " " "
Manchester Street Railway.....	Canal and Depot Sts.....	6" " " "
Manchester Street Railway.....	Granite St.....	6" " " "
Manchester Street Railway.....	Depot St.....	6" " " "
Manchester Street Railway.....	Pine Island Park.....	6" " " "
Manchester Stocking Co.....	Mill St.....	4" " " "
New Hampshire Fire Ins. Co.....	Market St.....	6" " " "
Notre Dame Hospital.....	Wayne St.....	4" " " "
Odd Fellows Bldg.....	Hanover St.....	4" " " "
Opera House Block.....	34 Hanover St.....	4" " " "
Parker, W. M.....	W. Auburn St.....	6" " " "
Parker, W. M.....	Cedar corner Franklin St.....	6" " " "
Pembroke Bldg.....	Elm corner Merrimack St.....	4" " " "
People's Gas-Light Co.....	Cove St.....	6" " " "
Piper, B. H. Co.....	Somerville St.....	6" " " "
Pomery, C. H. (not used).....	283-93 Elm St.....	6" " " "
Queen City Mfg. Co.....	Silver St.....	6" " " "
Redman-Eaton Co.....	West Hancock St.....	6" " " "
Reed, H. B. Co.....	Kelley St.....	6" " " "
St. George's School.....	Orange corner Pine.....	4" " " "
Sacred Heart Hospital.....	Amherst St.....	4" " " "
Sisters of Precious Blood.....	Union St.....	2" " " "
So. Manchester Bldg. Association.....	Silver St.....	6" " " "
Stark Mills.....	McGregor St.....	6" " " "
State Industrial School.....	North River Rd.....	6" " " "
State Industrial School (Girls).....	North River Rd.....	6" " " "
Sullivan, R. G., Garage.....	Pleasant St.....	6" " " "
Sullivan, R. G.....	West Central Street.....	6" " " "
Varick Bros.....	Auburn corner Franklin.....	6" " " "
Weston & Flitts.....	1059 Elm St.....	3" " " "
West Side Shoe Co.....	West Hancock St.....	6" " " "
Weston, J. H.....	981-97 Elm St.....	3" " " "
Wheeler, H. E.....	Douglas St.....	4" " " "
Woodbury, G. (Garage).....	Myrtle St.....	4" " " "
Y. M. C. A.....	Mechanic St.....	4" " " "

## AMOUNT OF WATER PUMPED.

Water .....	793,693,284	gallons
Steam .....	857,104,478	
Electricity .....	41,900,000	

Total amount of water pumped during 1913.. 1,692,697,762 gallons

Daily average pumped ..... 4,637,528

Daily amount used per capita (estimate population 77,000) and allowing 10% for leaks and pump slippage ..... 54

Cost of pumping per 1,000,000 gallons:

Water .....	\$3.00
Steam .....	12.01
Electricity .....	16.40

Amount of coal used:

High service station.....	1,835,003 lbs.
Low service station.....	63,000

Total .....	1,898,003 lbs.
Main pipe laid during year.....	16,926 feet
Equal to .....	3.205 miles
Previously reported cast-iron.....	683,157 feet
Previously reported cement-lined .....	20,351
Discontinued cement-lined .....	8,091
Cement-lined pipe in use.....	12,260
Total amount pipe in use.....	712,343
Equal to .....	134.913 miles
Number of hydrants set during year.....	17
Previously reported.....	941
Total number set to date.....	958
New gates set during year.....	39
Previously reported.....	1,290
Total number set to date.....	1,329
Meters set during year.....	264
Meters taken out during year.....	1
Previously reported.....	5,689
Total number set to date.....	5,952
New services .....	247
Relaid services .....	152
Services discontinued during 1913.....	2
Total number services discontinued to date.....	147
Previously reported.....	7,352
Total number to date.....	7,597
Number of applications for 1913.....	247
Total number of applications to date .....	7,744
Total number of standpipes for street sprinkling.....	70
Total number of watering troughs.....	28
Total number of drinking fountains .....	10
Total number of fire service pipes .....	73

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1913.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
A St.—South Main to B St.....	6	836	.....	836
Abbott St.—Southwesterly from Sherman St.....	6	133	.....	133
Adams St., North—Appleton to north of Clarke .....	6	1,208	.....	.....
Adams St., North—North from Carpenter Adams St., (W. M.)—North Main to Cartier .....	6	320	.....	1,628
Agawam St.—River Rd. to Davis St.....	6	655	.....	655
Alfred St.—Hanover to Amherst.....	8	227	.....	227
Allen St.—South Main to Boynton.....	6	340	.....	340
Allen St.—Branch to hydrant.....	8	772	.....	.....
Alpine St.—North from Dickey.....	6	9	.....	781
Alsace St.—Amory, North, to halfway between Bremer and Mason.....	6	274	.....	274
Amherst St.—Elm to Pine.....	6	1,616	.....	1,616
Amherst St.—Pine to Beacon.....	8	1,010	.....	.....
Amherst St.—Highland to east of Hilton...	6	4,394	.....	.....
Amory St.—McGregor to above Congress...	6	349	.....	5,753
Amory St.—Branches to hydrants.....	8	4,684	.....	.....
Amoskeag St.—East end of Amoskeag bridge to Montgomery.....	6	47	.....	4,731
Amoskeag St.—Branch to hydrant.....	12	3,695	.....	.....
Appleton St.—Union to west of Elm.....	6	12	.....	3,707
Arah St.—East from Union to Hooksett line .....	6	1,694	.....	1,694
Arlington St.—Maple to Morrison.....	6	3,196	.....	3,196
Ash St.—From north of Amherst to Concord .....	6	1,765	.....	1,765
Ash St.—Lowell to Bridge.....	4	214	.....	.....
Ash St.—Harrison to Blodgett.....	6	750	.....	.....
Ash St.—Blodget to north of Salmon...	6	740	.....	.....
Ashland St.—Hanover to Pearl.....	6	1,106	.....	2,810
Auburn St.—Elm to Pine.....	10	2,264	.....	2,264
Auburn St.—Pine to Lincoln.....	8	1,010	.....	.....
Auburn St.—Wilson to Belmont.....	6	2,300	.....	.....
Auburn St.—East from Canton.....	6	920	.....	.....
Auburn St., West—Elm to Canal.....	6	314	.....	4,544
Avon St.—Mast to Ingalls.....	6	570	.....	570
B St.—Prince to A.....	6	1,032	.....	1,032
Baker St.—Brown Ave. to Willow.....	6	606	.....	606
Bank St.—Huntress, east, to near Boynton	6	2,624	.....	2,624
Barr St.—Conant to Douglass.....	6	304	.....	304
Barr St.—Douglas to Granite.....	4	254	.....	.....
Bartlett St.—Amory to south of Sullivan...	6	260	.....	514
Bartlett St.—Branches to hydrants.....	8	2,501	.....	.....
Batchelder Ave.—South from Hayward...	6	28	.....	2,529
Bath St.—Third to Turner.....	6	217	.....	217
Bay St.—Sagamore to Webster.....	6	517	.....	517
Bay St.—Clarke to Carpenter.....	6	1,671	.....	.....
Beacon St.—Laurel to near Manchester...	6	1,131	.....	2,802
Beacon St.—Hanover to Bridge.....	6	441	.....	.....
Bedel St.—Sherman southwest.....	6	1,660	.....	2,101
Bedford St.—Grove to Granite.....	6	326	.....	326
Bedford St.—South from Granite.....	6	792	.....	.....
Beech St.—North of Webster to Shasta...	10	73	.....	865
Beech St.—Shasta to south of Gold.....	12	12,458	.....	.....
Beech St.—Branches to hydrants.....	8	7,012	.....	.....
Bell St.—Pine to east of Union.....	6	107	.....	19,577
Bell St.—West from Beech.....	6	684	.....	.....
Bell St.—Wilson St. to east of Hall.....	6	150	.....	.....
Bell St. (W. M.)—Second to Wentworth...	6	562	.....	.....
Belmont St.—Manning to Massabesic.....	6	565	.....	1,961
Belmont St.—Concord to Pearl.....	6	5,060	.....	.....
	6	1,779	.....	.....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Belmont St.—Pearl to Harrison.....	8	1,111	.....	7,950
Bennington St.—West from Main.....	6	48	.....	48
Birch St.—Lowell to Bridge.....	6	501	.....	501
Bismarck St.—Milford to Charlestown Ave.	6	1,036	.....	1,036
Blaine St.—South Main to Hiram.....	6	1,573	.....	1,573
Blair St.—West from Brown Ave.....	6	320	.....	320
Blodget St.—Elm to Russell.....	6	1,534	.....	1,534
Boutwell St.—Amory to north of Bremer..	6	1,687	.....	1,687
Bowman St.—Mast to Milford.....	6	835	.....	.....
Bowman St.—Milford to A.....	4	823	.....	1,458
Boynton St.—South Main to Allen.....	6	2,287	.....	.....
Boynton St.—Allen to south of Sheridan..	8	2,739	.....	5,026
Bremer St.—Coolidge Ave. to Hevey.....	6	750	.....	.....
Bremer St.—West of Montgomery to Bout- well .....	6	1,497	.....	2,247
Bridge St.—Elm to Pine.....	8	1,020	.....	.....
Bridge St.—Pine to Belmont.....	6	4,316	.....	.....
Bridge St.—Belmont to Mammoth Rd.....	8	2,552	.....	7,888
Bridge St., West—Elm to McGregor.....	8	2,490	.....	2,490
Bridge St., Old—Mammoth Rd. to west of Hall Rd. ....	6	282	.....	282
Brock St.—Milford St., north.....	6	242	.....	242
Brook St.—Elm to Oak.....	6	3,000	.....	3,000
Brook St., West—Elm to Canal.....	6	725	.....	725
Brooklyn Ave.....	.....	.....	.....	.....
Brown Ave.—Elm to south of Grover.....	6	2,918	.....	.....
Brown Ave.—From south of Grover to south of Westland Ave.....	8	1,919	.....	.....
Brown Ave.—Calef Rd. to Goffe's Falls..	10	9,321	.....	14,158
Buzzell St.—Lowell to East High.....	6	369	.....	.....
Buzzell St.—East High to Bridge.....	4	323	.....	695
Byron St.—Brown Ave. to McElwain.....	8	1,018	.....	.....
Byron St.—West from McElwain.....	10	336	.....	1,354
C St.—Boynton to B.....	6	637	.....	637
Calef Rd.—Welch Ave. to Baker.....	6	732	.....	.....
Calef Rd.—Baker to Mitchell.....	8	2,952	.....	.....
Calef Rd.—Mitchell to Brown Ave.....	10	4,023	.....	.....
Calef Rd.—Titus Ave. to Pine Grove ceme- tery .....	4	312	.....	8,024
Canal St.—West Auburn to Granite.....	8	750	.....	.....
Canal St.—Granite to Depot.....	14	226	.....	.....
Canal St.—Depot to West Salmon.....	8	5,847	.....	.....
Canal St.—Branches to hydrants.....	6	52	.....	6,875
Candia Rd.—Massabesic to Proctor Rd....	20	7,201	.....	.....
Candia Rd.—Proctor Rd. to Madison St....	10	3,316	.....	.....
Candia Rd.—Branches to hydrants.....	6	156	.....	14,372
Candia Rd.—Madison Ave. to Lake Shore Rd. ....	8	924	.....	.....
Candia Rd.—Lake Shore Rd. to Lake Pavilion .....	6	2,775	.....	.....
Canton St.—Lake Ave. to Auburn.....	6	771	.....	771
Carpenter St.—Elm to Union.....	6	1,431	.....	1,431
Carroll St.—Milford to Charlestown Ave..	6	882	.....	882
Cartier St.—Coolidge to Church, south of Amory .....	6	1,400	.....	.....
Cartier St.—Wayne near Schuyler.....	6	1,380	.....	.....
Cartier St.—Adams to Conant.....	6	631	.....	3,411
Cass St.—Lake Ave. to Laurel.....	6	495	.....	495
Cedar St.—Elm to Pine.....	8	1,010	.....	.....
Cedar St.—Pine to Lincoln.....	6	2,320	.....	.....
Cedar St.—Wilson to east of Hall.....	6	824	.....	.....
Cedar St., West—Elm to Canal.....	6	650	.....	4,804
Charlestown Ave.—George St. to Brock....	6	790	.....	790
Chase Ave.—Hospital Ave. to Hayes Ave..	6	520	.....	520



SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Cheney Place—West from Elm.....	4	238	.....	238
Chestnut St.—Cedar to Lake Ave.....	4	540	.....	.....
Chestnut St.—Central to Amherst.....	4	1,384	.....	.....
Chestnut St.—Lowell to Pearl.....	6	870	.....	.....
Chestnut St.—Pearl to Brook.....	8	1,527	.....	.....
Chestnut St.—Brook to Blodgett.....	6	275	.....	.....
Chestnut St.—Sagamore to Webster.....	6	1,640	.....	.....
Chestnut St.—Appleton to north of Car- penter .....	6	2,486	.....	8,722
Church St.—North from Washington St...	4	147	.....	147
Cilley Rd.—Mammoth Rd. to near Porter St. ....	8	1,213	.....	.....
Cilley Rd.—East of Taylor to west of Hall	6	1,389	.....	2,602
Central St.—Elm to Pine.....	8	1,192	.....	.....
Central St.—Pine to Cass.....	6	5,134	.....	.....
Central St., West—Elm to Bedford.....	6	1,100	.....	7,426
Clarke St.—River Rd. to Union.....	6	1,949	.....	1,949
Clay St.—Lincoln to Hall.....	6	1,200	.....	.....
Clay St.—Taylor to Cypress.....	6	800	.....	.....
Clay St.—West from Jewett.....	6	268	.....	2,268
Clement St.—Ingalls to Dickey.....	6	304	.....	304
Cleveland St.—Blaine to Hiram.....	6	1,482	.....	1,482
Clinton St.—South Main to West.....	6	563	.....	563
Clough Ave.—South from Spruce.....	6	258	.....	258
Cody St.—North from Candia Rd.....	6	271	.....	271
Cohas Ave.—East from Mammoth Rd.....	8	390	.....	.....
Cohas Ave.—Reservoir to near pumping station .....	24	6,937	.....	.....
Cohas Ave.—North from pumping station to 24' .....	20	250	.....	.....
Cohas Ave.—North from pumping station to 24' .....	20	300	.....	.....
Cohas Ave.—Branch to blow-off.....	8	26	.....	.....
Cohas Ave.—Branch to hydrant.....	6	30	.....	7,933
Colby St.—West Hancock to Log.....	8	253	.....	253
Columbus St.—South of Amory.....	6	388	.....	388
Conant St.—North Main to west of Mont- gomery .....	6	1,901	.....	1,901
Conant Rd.—Derry Rd. to south of Corn- ing Rd.....	6	1,586	.....	1,586
Concord St.—Elm to Pine.....	8	1,010	.....	.....
Concord St.—Pine to Weston.....	6	4,854	.....	5,864
Congress St.—South from Amory.....	6	250	.....	250
Coolidge Ave.—Kelley to north of Rimmon	8	2,240	.....	.....
Coolidge Ave.—Branches to hydrants....	6	36	.....	2,276
Cove St.—Elm St., west, across river to Turner .....	12	1,956	.....	1,956
Crown St.—Park Ave. to Victoria.....	8	344	.....	.....
Crown St.—Branch to hydrant.....	6	4	.....	348
Cumberland St.—Amory to Monitor.....	6	663	.....	663
Cypress St.—Spruce to Auburn.....	6	500	.....	.....
Cypress St.—From south to Massabesic to Hayward .....	6	900	.....	.....
Cypress St.—Young Rd. to Clay.....	6	920	.....	.....
Cypress St.—Holly Ave. to Vinton.....	6	426	.....	2,745
D St.—Mast Rd. to west of Dickey.....	6	304	.....	304
Dartmouth St.—Hancock to Woodbury....	6	1,071	.....	1,071
Davignon St.—North from Pinard.....	6	235	.....	235
Davis St.—Agawan to Victoria.....	8	175	.....	175
Dean St.—Elm to Canal.....	6	764	.....	764
Dearborn St.—Summer to Taylor.....	6	670	.....	670
Delaware Ave.—Hanover to Paris.....	6	418	.....	418
Depot St.—Elm to Canal.....	14	835	.....	864
Depot St.—Branches to hydrants.....	6	29	.....	.....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Derry St.—Southwest from Concord.....	4	147	.....	147
Derry Rd.—Mammoth Rd. to Dickey Rd...	8	807	.....	.....
Derry Rd.—Dickey Rd. to east of Conant Rd.....	6	3,961	.....	4,768
Dickey St.—Alpine to Avon.....	6	929	.....	929
Dickey Rd.—East from Derry Rd.....	8	288	.....	.....
Dickey Rd.—Branch to hydrant.....	6	7	.....	.....
Dickey Rd.—East of Cohas Ave.....	8	75	.....	.....
Dickey Rd.—West from Cohas Ave.....	8	64	.....	.....
Dickey Rd.—Branch to hydrant.....	6	8	.....	442
Dix St.—Maple to Hall.....	6	1,800	.....	.....
Dix St.—East from Taylor.....	6	275	.....	2,075
Donahue St.—Sheridan to Glenwood.....	6	451	.....	451
Donald St.—Milford to Robie.....	6	552	.....	.....
Donald St.—Robie to St. Joseph's ceme- tery.....	8	936	.....	1,488
Douglas St.—Railroad to east of Main....	6	2,014	.....	.....
Douglas St.—West from Turner.....	6	75	.....	2,089
Dover St.—Clinton to Douglas.....	4	622	.....	622
Dubuque St.—Conant to north of Gates....	6	676	.....	.....
Dubuque St.—Putnam to Bremer.....	6	2,400	.....	3,076
Dunbarton Rd.—Front St. west to Colby Place.....	6	1,210	.....	1,210
Dutton St.—Amherst to Concord.....	4	471	.....	471
Eddy Rd.—McGregor to Mill.....	10	2,922	.....	.....
Eddy Rd.—Blow-off to Eddy.....	8	14	.....	.....
Eddy Rd.—Branch to hydrant.....	6	10	.....	2,946
Edgemere Ave.—East from Calef Rd.....	6	354	.....	354
Edmond St.—Theophile to Pinard.....	6	555	.....	555
Elliott Pl.—East from River Rd.....	4	296	.....	296
Elm St.—From south of Baker to Cove..	12	3,154	.....	.....
Elm St.—Cove to Trenton.....	14	12,642	.....	.....
Elm St.—Trenton to Rowell.....	12	980	.....	.....
Elm St.—Branches to hydrants.....	6	347	.....	17,123
Elm Ave.—Elm to Calef Rd.....	4	384	.....	384
Elmhurst Ave.—East from Calef Rd.....	6	407	.....	407
Erie St.—West from South Main.....	6	424	.....	.....
Erie St.—Gilford to Boynton.....	8	435	.....	359
Essex St.—Amory to Monitor.....	6	666	.....	666
Everett St.—Waldo to Thayer.....	4	820	.....	820
Falls Ave.—East from Falls Rd.....	6	338	.....	338
Falls Rd.—Massabesic to north of Falls Ave.....	6	562	.....	562
Farmer St.—West from Candia Rd.....	6	150	.....	150
Ferry St.—South Main to Second St.....	12	914	.....	914
Ferry Lane—Turner to Second.....	12	260	.....	260
Fibre St.—East from Front St.....	6	80	.....	80
Forest St.—Mast to Sylvester.....	6	1,554	.....	1,554
Poster Ave.—North from Hayward.....	4	308	.....	308
Fourth St.—South from Walker.....	6	218	.....	218
Franklin St.—Auburn, west to Granite....	6	305	.....	.....
Franklin St.—South from Depot St.....	6	72	.....	.....
Franklin St.—North from Depot St.....	6	99	.....	.....
Franklin St.—Merrimack to Market.....	6	525	.....	1,301
Frederick St.—West from Second.....	6	194	.....	.....
Frederick St.—East from Second.....	6	308	.....	.....
Frederick St.—West from Dartmouth.....	6	234	.....	736
Front St.—Mill to Goffstown Rd.....	10	1,094	.....	.....
Front St.—Goffstown Rd. to north of Dun- barton Rd.....	8	2,514	.....	.....
Front St.—Branches to hydrants.....	6	41	.....	3,649
Garmon St.—Hanover to near Amherst....	6	347	.....	347
Goffe St.—South Main to Hancock.....	6	562	.....	562

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
George St.—North from Milford.....	8	391	.....	.....
George St.—From end of 8 inches to Charlestown .....	6	477	.....	868
Gertrude St.—Hanover to Amherst.....	6	324	.....	324
Gilford St.—Oneida to Erie.....	8	802	.....	802
Glendale St.—West from Jewett.....	6	257	.....	257
Glenwood Ave. (W. M.)—Northwest from Boynton .....	6	292	.....	292
Glenwood Ave. (E. M.)—Hall Rd. to Mam- moth .....	6	542	.....	.....
Glenwood Ave. (E. M.)—Orchard to Wood- land .....	6	507	.....	.....
Glenwood Ave. (E. M.)—Page to Lovering	6	510	.....	1,559
Goffe St.—South Main to Hancock.....	6	825	.....	825
Goffstown Rd.—West from Front.....	6	2,674	.....	2,674
Gold St.—East from Calef Rd.....	6	512	.....	512
Granite St.—Elm to Canal.....	6	832	.....	.....
Granite St.—Canal to Print Works gate..	14	619	.....	.....
Granite St.—Print Works gate across river to Turner .....	8	910	.....	.....
Granite St.—Turner to Main.....	10	900	.....	.....
Granite St.—Main to Quincy.....	6	1,609	.....	.....
Granite St.—R. R. bridge to Winter.....	4	177	.....	5,047
Green St. (E. M.)—Pine to Beech.....	6	920	.....	.....
Green St. (E. M.)—Wilson to Hall.....	6	457	.....	1,377
Green St. (W. M.)—Conant to Douglas.....	6	260	.....	.....
Green St. (W. M.)—Douglas to Granite....	4	260	.....	520
Grove St. (Amoskeag Corp.)—Bedford to State .....	6	231	.....	231
Grove St.—Pine to Beech.....	6	1,060	.....	.....
Grove St.—Wilson to near Taylor.....	6	1,502	.....	2,562
Hall St.—Manning to north of Clay.....	6	1,365	.....	.....
Hall St.—Silver to Harvard.....	6	309	.....	.....
Hall St.—Harvard to Valley.....	8	1,025	.....	.....
Hall St.—Summer to Cedar.....	6	509	.....	.....
Hall St.—Bridge to Pearl.....	6	527	.....	.....
Hall St.—Fire pipe for McElwain Co.....	6	67	.....	3,802
Hall Rd.—Massabesic to Auburn.....	6	1,711	.....	.....
Hall Rd.—Bridge to high service reser- voir (E. M.).....	20	2,000	.....	3,711
Hancock St.—West from Brown Ave. to railroad .....	6	1,201	.....	1,201
Hancock St.—West, South Main to Har- vey .....	6	1,710	.....	.....
Hancock St.—West, fire pipe for Crafts' shop .....	6	39	.....	1,749
Hanover St.—Elm to Pine.....	8	1,010	.....	.....
Hanover St.—Pine to Ashland.....	6	2,900	.....	.....
Hanover St.—Ashland to Willow.....	10	115	.....	.....
Hanover St.—Wilson to Mammoth Rd.....	6	4,224	.....	.....
Hanover St.—Mammoth Rd. to Proctor Rd.....	10	5,864	.....	.....
Hanover St.—Branches to hydrants.....	6	79	.....	14,192
Harriman St.—North from Sheridan.....	6	145	.....	.....
Harriman St.—South from Sheridan.....	6	136	.....	281
Harrington Ave.—West from Calef Rd.....	6	175	.....	175
Harrison St.—Elm to Belmont.....	6	5,075	.....	5,075
Harvard St.—Beech to Portsmouth tracks	6	1,196	.....	.....
Harvard St.—Wilson to Taylor.....	6	1,550	.....	2,746
Harvell St.—East from South Main.....	6	59	.....	50
Hayes Ave.—Massabesic to Chase Ave.....	6	472	.....	472
Hayward St.—Elm to Willow.....	6	310	.....	.....
Hayward St.—Pine to Knowlton.....	6	6,552	.....	.....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Hayward St.—Porter to Mammoth Rd. (S. M.) .....	12	677	.....	7,539
Hazel St.—Harrison to Brook.....	4	434	.....	434
Head St.—Mast to McClintock.....	6	1,249	.....	1,249
Henrietta St.—Mast Rd. to Edmond.....	6	414	.....	414
Hevey St.—Conant to south of Gates.....	6	338	.....	.....
Hevey St.—Columbus Ave. to Bremer....	6	1,733	.....	.....
Hevey St.—South of Mason St.....	8	205	.....	.....
Hevey St.—South of 6 inch.....	..	232	.....	2,768
Hevey St.—North of Mason.....	6	260	.....	.....
High St.—Chestnut to Union.....	4	858	.....	858
High St., East—Maple to Highland.....	6	4,036	.....	4,036
High service station to Fletcher's Cross- ing (E. M.) .....	20	4,256	.....	.....
High service station to Fletcher's Cross- ing blow-off.....	10	153	.....	.....
High service station—Branches to hy- drants .....	6	43	.....	4,452
Highland St.—Hanover to Amherst.....	6	473	.....	.....
Highland St.—Lowell to Bridge.....	6	686	.....	1,169
Highland Ave.—South from Wilkins.....	6	524	.....	524
Highland Park Ave.—Candia Rd. to Glen- wood Ave.....	6	1,040	.....	1,040
Hillcrest Ave.—Brown Ave. to near Elm..	6	586	.....	.....
Hillcrest Ave.—West from Calef Rd.....	6	468	.....	1,054
Hilton St.—South from Amherst.....	6	136	.....	136
Hiram St.—Cleveland to Blaine.....	6	256	.....	256
Hollis St.—Elm to Canal.....	6	756	.....	756
Holly Ave.—Cypress to west from Belmont	6	1,529	.....	1,529
Hosley St.—Grove to Summer.....	6	532	.....	532
Hospital Ave.—Southwest from Chase Ave.	6	192	.....	192
Howe St.—Maple to Hall.....	6	1,851	.....	1,851
Hubbard St.—Amherst to Concord.....	6	376	.....	376
Hudson St.—East from Knowlton.....	8	220	.....	228
Hudson St.—Branch to hydrant.....	6	8	.....	.....
Huntress St.—Prince to south of bank....	6	792	.....	792
Jane St.—Lowell to High.....	4	442	.....	442
Jane St.—Nashua to near High.....	4	195	.....	195
Jewett St.—Glendale Ave. to Hayward....	8	1,863	.....	.....
Jewett St.—Merrill to Massabesic.....	6	623	.....	2,486
Johnson St.—East from Knowlton.....	8	168	.....	175
Johnson St.—Branch to hydrant.....	6	8	.....	.....
Joliette St.—Amory to north of Bremer....	6	1,484	.....	1,484
Jones St.—Nelson to near Benton.....	6	471	.....	471
Kearsarge St.—Amory to south of Monitor	6	842	.....	843
Kelley St.—Coolidge Ave to Morgan.....	6	3,611	.....	3,611
Kennedy St.—West from Brown Ave.....	6	467	.....	467
Kidder St.—Elm to Canal.....	6	750	.....	750
Kidder Ct.—Across Elm.....	6	57	.....	.....
Kidder Ct.—West of Elm.....	4	185	.....	242
Knowlton St.—Hayward to Hudson.....	6	503	.....	503
Lafayette St.—Amory to north of Kelley..	6	991	.....	991
Lake Ave.—East from Elm.....	20	104	.....	.....
Lake Ave.—East of Elm to Hall.....	20	.....	4,354	.....
Lake Ave.—Branches to hydrants.....	6	.....	45	.....
Lake Ave.—Hall to west of J. Hall Rd....	6	3,100	.....	.....
Lake Ave.—Mammoth Rd. to Hanover....	6	1,229	.....	8,832
Lamprey St.—Mast Rd. to Rockland Ave.	6	1,079	.....	1,079
Langdon St.—East from Canal.....	6	275	.....	.....
Langdon St.—West from Elm.....	6	185	.....	460
Laurel St.—Chestnut to east of Cass.....	6	5,748	.....	5,748
Laval St.—Amory to north of Bremer....	6	1,742	.....	1,742
Liberty St.—Webster to North.....	6	657	.....	.....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Liberty St.—South from Salmon to back street .....	4	238	.....	895
Lincoln St.—North from Merrimack St....	6	147	.....	.....
Lincoln St.—South from Amherst.....	4	208	.....	355
Lingard St.—Southwest from Willow.....	6	460	.....	460
Log St.—Southwest from So. Main back street .....	6	230	.....	230
London St.—Maryland Ave. to Pennsylvania .....	6	254	.....	254
Londonderry Rd.—Southeast from Brown Ave. ....	8	3,606	.....	.....
Londonderry Rd.—East from 8-inch pipe..	6	752	.....	4,358
Longwood Ave.—Mammoth Rd. to Woodbine Ave.....	6	1,157	.....	1,157
Lovering St.—North from Glenwood Ave....	6	182	.....	.....
Lovering St.—South from Glenwood Ave..	6	182	.....	364
Lowell St.—Elm to Mammoth Rd.....	12	7,570	.....	.....
Lcwell St.—Blow-off at Maple.....	8	32	.....	7,602
McDuffie St.—Boynton to Huntress.....	6	527	.....	527
McElwain St.—Byron to Kennedy.....	6	539	.....	539
McGregor St.—Main to Amory.....	6	1,267	.....	.....
McGregor St.—Amory to West Bridge.....	8	150	.....	.....
McGregor St.—West Bridge to Main.....	6	900	.....	2,317
McNeil St.—Hancock to west of Second...	6	366	.....	366
Main St.—McGregor to Granite.....	10	4,550	.....	.....
Main St.—Branch to hydrant.....	6	10	.....	.....
Main St., South—Granite to south of Erie	10	6,090	.....	.....
Main St., South—Branches to hydrants...	6	44	.....	.....
Main St., South—Oneida to Second.....	10	713	.....	11,407
Malvern St.—North from Concord.....	4	266	.....	.....
Malvern St.—South from East High.....	4	260	.....	.....
Malvern St.—South from Bridge.....	4	381	.....	907
Mammoth Rd.—Derry Rd. to Cohas Ave..	8	3,461	.....	.....
Mammoth Rd.—Branches to hydrants....	6	36	.....	.....
Mammoth Rd.—Low service reservoir to Massabesic .....	20	.....	3,700	.....
Mammoth Rd.—Branch to hydrant.....	6	.....	12	.....
Mammoth Rd.—Candia Rd. to bridge.....	20	5,724	.....	.....
Mammoth Rd.—Bridge to north of Old Bridge .....	6	998	.....	13,931
Manchester St.—Elm to Pine.....	8	1,010	.....	.....
Manchester St.—Pine to near Beacon....	6	4,400	.....	5,410
Manning St.—Hall to Belmont.....	6	370	.....	370
Maple St.—Shasta to Somerville.....	6	1,000	.....	.....
Maple St.—Prescott to Hayward.....	6	322	.....	.....
Maple St.—South from Concord.....	6	275	.....	.....
Maple St.—North from Concord.....	6	132	.....	.....
Maple St.—Lowell to Bridge.....	6	775	.....	.....
Maple St.—Bridge to Harrison.....	10	1,437	.....	.....
Maple St.—Harrison to Blodget.....	4	752	.....	.....
Maple St.—Blodget to Sagamore.....	6	510	.....	5,203
Maplewood St.—North from Harrington Ave. ....	6	206	.....	206
Marion St.—McGregor to Main.....	6	290	.....	290
Market St.—Elm to Canal.....	6	962	.....	962
Marlboro St.—West from Bowman.....	6	150	.....	150
Maryland Ave.—South from London.....	6	368	.....	.....
Maryland Ave.—North from London.....	6	109	.....	477
Mason St.—Coolidge to Montgomery.....	12	840	.....	.....
Mason St.—Branch to hydrant.....	6	8	.....	848
Massabesic St.—Between Mammoth Rd. and Lake Ave.....	20	.....	4,149	.....
Massabesic St.—Mammoth Rd. to Lake Ave. ....	20	561	.....	.....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Massabesic St.—Mammoth Rd. to Valley..	20	915	.....	.....
Massabesic St.—Porter to Hall Rd.....	6	250	.....	5,875
Mast St.—South Main to near Brock.....	6	3,209	.....	.....
Mast St.—Forest to Rockland Ave.....	6	640	.....	3,849
Mast Rd.—Mast to Wilkins.....	6	1,838	.....	.....
Mast Rd.—Wilkins to Pinard.....	8	3,812	.....	5,650
Mead St.—Hall to Belmont.....	6	362	.....	362
Mechanic St.—Elm to Canal.....	6	788	.....	788
Merrill St.—Jewett to Mason.....	6	698	.....	698
Merrimack St.—Elm to Union.....	8	1,550	.....	.....
Merrimack St.—Union to Hanover.....	6	5,645	.....	7,195
Merrimack to Laurel—Connection west of Cass .....	6	250	.....	250
Merrimack St., West—Elm to Canal.....	6	1,050	.....	1,050
Middle St.—Franklin to Canal.....	6	768	.....	768
Milford St.—South Main to Sylvester....	6	2,849	.....	2,849
Milford Place—South from Milford.....	6	232	.....	232
Mill St.—East from Front St.....	6	586	.....	586
Mill Ave., Goff's Falls—West from Brown Ave. ....	10	84	.....	.....
Mill Ave., Goff's Falls—West from 10-inch	8	464	.....	.....
Mill Ave., Goff's Falls—Branch to hydrant	6	6	.....	554
Mitchell St.—Calef Rd. to Beech.....	6	1,354	.....	1,354
Monitor St.—Essex to Kearsarge.....	6	504	.....	504
Monmouth St.—East from Main.....	4	204	.....	204
Mcroe St.—Elm to River Rd.....	6	646	.....	646
Montgomery St.—Conant to Gates.....	6	474	.....	.....
Montgomery St.—Amory to Kelley.....	6	602	.....	.....
Montgomery St.—North from Kelley.....	6	227	.....	.....
Montgomery St.—Mason to Amoskeag....	12	2,721	.....	4,024
Morgan St.—North from Amory.....	6	288	.....	288
Morrison St.—Arlington to Pearl.....	6	370	.....	370
Myrtle St.—Elm to Pine.....	8	938	.....	.....
Myrtle St.—Pine to Belmont.....	6	4,319	.....	5,257
Mystic St.—West from Beech.....	6	1,050	.....	1,050
Mystic Ave.—North from Candia Rd.....	6	225	.....	.....
Mystic Ave.—North from Longwood Ave.	6	172	.....	.....
Mystic Ave.—North from Oakland Ave....	6	326	.....	723
Nashua St.—Jane to south of East High..	4	445	.....	.....
Nashua St.—South from Lowell.....	4	125	.....	570
Nelson St.—Hall Rd. to Mammoth Rd....	6	578	.....	578
Nerfolk St.—Beech to Union.....	6	577	.....	577
North St.—Elm to Beech.....	12	2,121	.....	.....
North St.—Branches to hydrants.....	6	34	.....	2,155
North St., West—Elm to River Rd.....	12	850	.....	.....
North St., West—Branches to hydrants..	6	55	.....	905
Notre Dame Ave.—Conant to Kelley.....	6	3,603	.....	3,603
Oakland Ave.—Mammoth Rd. to Mystic Ave. ....	6	969	.....	969
Omega St.—West from Front to Maxwell's	6	274	.....	.....
Omega St.—North from Goffstown Rd...	4	643	.....	917
Oneida St.—South Main to Gilford.....	6	738	.....	738
Orange St.—Elm to Pine.....	8	930	.....	.....
Orange St.—Pine to Belmont.....	6	4,039	.....	4,969
Orchard Ave.—Candia Rd. to Glenwood Ave. ....	6	1,095	.....	1,095
Page St.—Candia Rd. to near Condon....	6	2,464	.....	2,464
Palmer St.—West from North River Rd...	6	48	.....	48
Park Ave.—East from Crown.....	6	250	.....	250
Paris St.—Delaware Ave. to Pennsylvania	6	265	.....	265
Parker Ave.—South from Parker St....	4	180	.....	180
Parker St.—South Main to railroad tracks	4	898	.....	.....
Parker St.—North from Winter to tracks..	4	150	.....	1,048
Patterson St.—Northeast from Sheridan..	6	256	.....	256

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Pearl St.—Elm to Pine.....	8	1,012	.....	.....
Pearl St.—Pine to Belmont.....	6	4,076	.....	5,088
Pennacook St.—Union to west of Elm....	6	1,570	.....	1,570
Pennsylvania Ave.—North from Hanover..	6	29	.....	.....
Pennsylvania Ave.—Paris to London.....	6	460	.....	489
Pike St.—Southeast from Donald.....	6	840	.....	840
Pinard St.—Mast Rd. to Edmond.....	6	462	.....	462
Pine St.—Willow to Pearl.....	8	7,516	.....	.....
Pine St.—Branches to hydrants.....	6	59	.....	.....
Pine St.—Harrison to Brook.....	6	430	.....	.....
Pine St.—Sagamore to Webster.....	6	1,600	.....	9,605
Platts Ave.—South from Candia Rd.....	6	150	.....	.....
Platts Ave.—North from Candia Rd.....	6	50	.....	200
Pleasant St.—Elm to Canal.....	6	1,076	.....	1,076
Plummer St.—Pine to Union.....	6	500	.....	500
Porter St.—Somerville to Hayward.....	12	1,220	.....	.....
Porter St.—South of Hayward to Massa- tesic .....	6	592	.....	1,812
Prescott St.—East from Maple.....	6	219	.....	.....
Prescott St.—East from Wilson.....	6	318	.....	537
Prince St.—Boynton to Huntress.....	6	598	.....	598
Proctor Rd.—Hanover to Candia Rd.....	10	1,106	.....	1,106
Prospect St.—Elm to Belmont.....	6	4,640	.....	4,640
Prout Ave.—South from Hayward.....	6	300	.....	300
Putnam St.—Main to Dubuque.....	6	905	.....	.....
Putnam St.—Bartlett to Whipple.....	6	585	.....	1,490
Quincy St.—Granite to Douglas.....	4	260	.....	.....
Quincy St.—Douglas to Conant.....	6	264	.....	524
Railroad St.—Douglas to Sullivan.....	6	1,914	.....	1,914
Railroad St., West.—From Whipple ex- tended across railroad tracks northwest- erly .....	6	1,268	.....	1,268
Ray St.—Webster to north of Clarke.....	6	1,515	.....	.....
Ray St.—North from Carpenter.....	6	532	.....	2,047
Reed St.—Amory to north of Kelley.....	6	599	.....	.....
Reed St.—North from Bremer.....	6	162	.....	761
Revere Ave.—Wayland to north of Glen- wood .....	6	1,018	.....	1,018
Riddle St.—Mast Rd. to Milford.....	6	945	.....	945
Riley Ave.—South from Hayward.....	6	593	.....	593
Rimmon St.—Conant to Gates.....	6	500	.....	.....
Rimmon St.—Columbus Ave. to Bremer..	6	2,156	.....	.....
Rimmon St.—North from Bremer.....	8	455	.....	.....
Rimmon St.—Bremer to Coolidge.....	12	1,163	.....	4,274
River Rd. (Bedford)—South from Second to Woodbury Brook.....	8	3,786	.....	.....
River Rd.—Branch to hydrant.....	6	9	.....	3,795
River Rd., North—Salmon to Clarke.....	8	2,540	.....	.....
River Rd., North—Salmon to Clarke.....	12	480	.....	.....
River Rd., North—Clarke to Cloyde.....	6	1,124	.....	.....
River Rd., North—Cloyde to Olsen's, north of Union .....	8	9,464	.....	.....
River Rd., North—Branches to hydrants	6	86	.....	13,694
Rochelle Ave.—Mast to Charlestown Ave.	6	285	.....	235
Rockland Ave.—Mast to north of Shirley Hill .....	6	2,727	.....	2,727
Rosedale Ave.—East from Calef Rd.....	6	435	.....	435
Rowell St.—Elm to River Rd.....	8	303	.....	.....
Rowell St.—Branch to State Industrial school .....	6	17	.....	320
Russell St.—Harrison to north of Blodget	6	900	.....	900
Sagamore St.—Bay to Union.....	6	1,175	.....	.....
Sagamore St.—Walnut to Smyth Rd.....	6	2,685	.....	3,860
Salisbury St.—Hanover to Amherst.....	6	388	.....	388

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Salmon St.—Liberty to Union.....	6	275	.....	275
Savage St.—West from River Rd.....	6	38	.....	38
Schiller St.—Wentworth to Second.....	6	566	.....	566
School St.—Turner to South Main.....	6	995	.....	995
Schuyler St.—West from Main.....	6	215	.....	215
Second St.—Granite to School.....	6	340	.....	.....
Second St.—Bath to near Ferry.....	6	175	.....	.....
Second St.—Ferry to Ferry Lane.....	12	170	.....	.....
Second St.—Ferry Lane to Cleveland.....	6	1,055	.....	.....
Second St.—West Hancock to South Main	6	4,630	.....	6,370
Shasta St.—East from Brown Ave.....	6	60	.....	.....
Shasta St.—West from Elm.....	6	70	.....	.....
Shasta St.—Union to east of Lincoln.....	6	2,044	.....	.....
Shasta St.—West from Hall.....	6	174	.....	2,348
Sheridan St.—Boynton to Donahue.....	6	758	.....	758
Sherman St.—Boynton to Bedel.....	6	429	.....	429
Shirley Hill Rd.—Mast Rd. to Rockland Ave. ....	6	654	.....	654
Silver St.—Pine to Hall.....	6	3,543	.....	3,543
Smyth Rd.—Sagamore to south of Webster	8	2,043	.....	2,297
Smyth Rd.—South from Webster to 8-inch	6	254	.....	.....
Somerville St.—Union to Beech.....	6	526	.....	.....
Somerville St.—Beech to Maple.....	12	650	.....	.....
Somerville St.—Lincoln to Porter.....	12	4,535	.....	.....
Somerville St.—Fire pipe for B. H. Piper Co. ....	6	39	.....	5,750
South St.—North of Lowell.....	6	97	.....	.....
South St.—South of E. High to 6-inch....	4	476	.....	573
Spring St.—Elm to Canal.....	6	752	.....	752
Springview Ave.—North from Somerville	4	156	.....	156
Spruce St.—Elm to Chestnut.....	8	650	.....	.....
Spruce St.—Pine to Kenney.....	6	6,165	.....	6,815
Stark St.—Elm to Canal.....	6	874	.....	874
State Industrial School—River Rd., to school for girls.....	6	1,284	.....	1,284
State St.—Granite to Grove.....	6	1,029	.....	1,029
Stevens St.—South from Baker.....	6	325	.....	325
Sullivan St.—West from Main.....	6	50	.....	.....
Sullivan St.—Cartier to east of Notre Dame .....	4	399	.....	.....
Sullivan St.—Bartlett to Railroad.....	6	1,054	.....	1,503
Summer St.—Dearborn to Wilson.....	6	1,432	.....	.....
Summer St.—East of Beech.....	6	131	.....	.....
Summer St.—West of Beech.....	6	139	.....	1,702
Sylvester St.—Milford to Forest.....	6	400	.....	.....
Sylvester St.—Dickey to Fenton.....	6	238	.....	.....
Sylvester St.—South from Mast Rd.....	6	170	.....	808
Taggart St.—Goffstown Rd. to Amoskeag	8	413	.....	413
Taylor St.—Vinton to Dearborn.....	6	4,762	.....	4,762
Thayer St.—River Rd. to east of Everett	6	305	.....	305
Theophile St.—Mast Rd. to Edmond.....	6	372	.....	372
Third St.—School to south of Ferry.....	6	442	.....	.....
Third St.—South from Walker.....	4	357	.....	.....
Third St.—Cleveland across river to Log	8	477	.....	1,276
Thornton St.—Janelle Ave. to south of Sullivan .....	6	1,776	.....	1,776
Tilton St.—North from Milford.....	4	387	.....	.....
Tilton St.—South from Bowman place to 4-inch .....	6	110	.....	497
Titus Ave.—Calef Rd. to Beech.....	8	1,493	.....	.....
Titus Ave.—Branches to hydrants.....	6	76	.....	1,569
Trenton St.—Union to near Elm.....	8	1,192	.....	.....
Trenton St.—Branch to hydrant.....	6	18	.....	1,210



SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913—Continued.

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Turner St.—Douglas to Ferry Lane.....	8	1,217	.....	.....
Turner St.—Branch to hydrant.....	6	12	.....	.....
Turner St.—South from Walker.....	4	240	.....	1,469
Union St.—Willow to Hayward.....	6	2,353	.....	.....
Union St.—Concord to Lowell.....	4	319	.....	.....
Union St.—Lowell to Bridge.....	6	640	.....	.....
Union St.—Brook to Harrison.....	6	430	.....	.....
Union St.—Blodget to Clarke.....	6	3,340	.....	.....
Union St.—Clarke to north of Stark Ave.	8	2,335	.....	.....
Union St.—Arah to River Rd.....	8	4,881	.....	14,298
Valley St.—Elm to Beech.....	12	2,096	.....	.....
Valley St.—Beech to Wilson.....	14	1,923	.....	.....
Valley St.—Wilson to Massabesic.....	20	3,641	.....	.....
Valley St.—Branches to hydrants.....	6	121	.....	7,781
Valley St., West—West from Elm.....	6	125	.....	125
Victoria St.—Davis to Crown.....	8	256	.....	256
Vine St.—Amherst to Concord.....	4	340	.....	.....
Vine St.—Branch to hydrant.....	6	39	.....	379
Vinton St.—Willow to Wilson.....	6	1,249	.....	.....
Vinton St.—Taylor to near Cypress.....	6	690	.....	.....
Vinton St.—West from Cypress.....	8	138	.....	2,077
Walker St.—Turner to South Main.....	6	1,308	.....	1,308
Wallace St.—Southwest from Winter.....	6	183	.....	183
Walnut St.—Amherst to Concord.....	4	340	.....	.....
Walnut St.—Concord to Bridge.....	6	995	.....	.....
Walnut St.—Bridge to Pearl.....	4	315	.....	.....
Walnut St.—North from Harrison.....	4	280	.....	.....
Walnut St.—South from Blodget.....	4	187	.....	.....
Walnut St.—Blodget to Webster.....	6	2,090	.....	.....
Walnut St.—North from Webster.....	8	522	.....	.....
Walnut St.—Branches to hydrants.....	6	55	.....	4,784
Ward St.—West from River Rd.....	6	44	.....	44
Warner St.—Mast St. to Wilkins.....	6	1,265	.....	1,265
Washington St.—Elm to Birch.....	4	351	.....	351
Water St.—Elm to Canal.....	6	736	.....	736
Wayland Ave.—East from Mammoth Rd...	8	383	.....	.....
Wayland Ave.—West from Revere to 8- inch .....	6	202	.....	585
Wayne St.—Main to Dubuque.....	6	923	.....	923
Webster St.—Elm to Beech.....	6	2,090	.....	.....
Webster St.—West from Smyth Rd.....	6	202	.....	2,292
Webster St., West—Elm to B. & M. R. R.	6	1,248	.....	1,248
Welch Ave.—West from Calef Rd. to street line .....	6	10	.....	.....
Welch Ave.—West from 6-inch.....	4	328	.....	338
Wellington Ave.—East from Mammoth Rd.	6	1,228	.....	1,228
Wentworth St.—North from Schiller St...	6	837	.....	837
West St.—Parker to Clinton.....	6	217	.....	.....
West St.—Clinton to Douglas.....	4	536	.....	.....
West St.—Douglas to Conant.....	6	300	.....	1,053
Westland Ave.—West from Brown Ave...	6	270	.....	270
Weston St.—Concord to north of Lowell..	6	697	.....	.....
Weston St.—East High to Bridge.....	6	330	.....	1,027
Wheelock St.—Hancock to Goffe.....	4	209	.....	209
Wilkins St.—Mast Rd. to west of Rockland Ave. ....	6	1,850	.....	1,850
Williams St.—North from Milford.....	6	250	.....	.....
Williams St.—North from 6-inch.....	4	208	.....	458
Willow St.—Valley to Hayward.....	4	550	.....	.....
Willow St.—Hayward to Auger Ave.....	8	1,185	.....	.....
Willow St.—Auger Ave. to Pine .....	6	609	.....	.....
Willow St.—Pine to Baker.....	8	850	.....	.....
Willow St.—Beech to Shea's Place.....	8	3,993	.....	.....
Willow St.—Branches to hydrants.....	6	56	.....	7,234

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31,  
1913.—*Concluded.*

LOCATION OF PIPE.	LENGTH IN FEET.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Wilson St.—Howe to Hanover.....	10	6,137	.....	.....
Wilson St.—Branch to hydrant.....	6	10	.....	6,147
Wilton St.—Notre Dame to Cartier.....	6	283	.....	283
Winter St.—South Main to west of Gran- ite .....	6	1,398	.....	1,398
Woodbine Ave.—Candia Rd. to north of Longwood Ave.....	6	537	.....	537
Woodbury St.—East from South Main....	6	44	.....	44
Woodland Ave.—North from Candia Rd. to R. R. tracks.....	6	1,212	.....	1,212
Woodlawn Ave.—Northeast from London- derry Rd.....	6	1,207	.....	1,207
Young St.—Somerville to Taylor St.....	6	2,079	.....	2,079
Youville St.—Amory to north of Kelley..	6	626	.....	626

Location and Pressure of Hydrants Set in 1913.

Ash street, corner Salmon.....	95 lbs.
Candia road, corner Groveland avenue .....	90
Candia road, on line between Fellows and Sanborn.....	88
Candia road, near Pavilion .....	87
Coolidge avenue, near No. 304 .....	115
Coolidge avenue, corner Rimmon .....	113
Grove street, corner Wilson .....	108
Grove street, corner Hall .....	108
Grove street, corner Belmont .....	104
High street, East, corner Highland.....	42
Howe street, corner Hall .....	80
Hudson street, corner Knowlton.....	92
Johnson street, corner Knowlton.....	90
Lamprey street, near Groulx house.....	39
Merrill street, corner Mason.....	87
Smyth road, between Webster and Sagamore.....	76
Smyth road, 50 feet north from Webster street.....	20

## LOCATION OF GATES ON MAINS.

STREET.	LOCATION.	SIZE (inches).
A St.	West line of South Main.	6
Adams St.	North line of Appleton.	6
Adams St.	South line of Clarke.	6
Adams St.	North line of Clarke.	6
Adams St.	North line of Carpenter.	6
Adams St. (W. M.)	West line of Main.	6
Adams St. (W. M.)	East line of Cartier.	6
Agawam St.	West line of River Rd.	8
Alfred St.	3 feet south from north line of Hanover.	6
Allen St.	West line of South Main.	8
Alpine St.	North line of Dickey.	6
Alsace St.	North line of Amory.	6
Alsace St.	South line of Kelley.	6
Alsace St.	North line of Kelley.	6
Alsace St.	South line of Bremer.	6
Amherst St.	East side of Elm.	8
Amherst St.	West line of Pine.	8
Amherst St.	East line of Pine.	6
Amherst St.	West line of Beech.	6
Amherst St.	East line of Beech.	6
Amherst St.	West line of Ashland.	6
Amherst St.	East line of Ashland.	6
Amherst St.	East line of Belmont.	6
Amherst St.	East line of Hall.	6
Amherst St.	West line of Beacon.	6
Amherst St.	West line of Hilton.	6
Amory St.	East line of Main.	8
Amory St.	West line of Main.	8
Amory St.	East line of Dubuque.	8
Amory St.	Intersection of Bartlett and Amory.	8
Amory St.	North line of Amory.	8
Amory St.	East line of Joliette.	8
Amory St.	West line of Congress.	8
Amoskeag St.	East end of Amoskeag bridge.	12
Amoskeag St.	South from Amoskeag St., west from east line Front.	12
Amoskeag St.	West line of Front.	12
Amoskeag St.	East line of Taggart.	12
Amoskeag St.	On hydrant branch, corner Taggart.	6
Amoskeag St.	On blow-off.	6
Appleton St.	14 ft. east from hydrant.	6
Appleton St.	18 ft. west from east line of Elm.	6
Appleton St.	West line of Union.	6
Arah St.	East line of Union.	6
Arah St.	Near Royer's house.	6
Arlington St.	East line of Maple.	6
Arlington St.	West line of Ashland.	6
Arlington St.	East line of Ashland.	6
Ash St.	South line of Concord.	4
Ash St.	9 ft. north of north line of Lowell.	6
Ash St.	South line of Bridge.	6
Ash St.	16½ ft. south of north line of Harrison (Valve).	2
Ash St.	North line of Brook.	4
Ash St.	North line of Blodget.	6
Ash St.	South line of Sagamore.	6
Ash St.	North line of Sagamore.	6
Ash St.	North line of Salmon.	6
Ashland St.	North line of Hanover.	10
Ashland St.	South line of Lowell.	10
Ashland St.	North line of Lowell.	10
Auburn St.	East line of Elm.	8
Auburn St.	On fire service to J. Hodge's.	4
Auburn St.	West line of Pine.	6
Auburn St.	East line of Pine.	6
Auburn St.	West line of Beech.	6
Auburn St.	East line of Beech.	6
Auburn St.	East line of Wilson.	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Auburn St.	West line of Belmont.	6
Auburn St., West	West line of Elm.	6
Auburn St., West	On fire service to machine shop.	6
Auburn St., West	One fire service to Varick's storehouse.	6
Auburn St., West	East line to Canal.	6
Avon St.	South line of Mast Rd.	6
Avon St.	South line of Dickey St.	6
B St.	North line of Prinae.	6
Baker St.	East line of Brown Ave.	6
Baker St.	4 ft. west of hydrant between Brown Ave. and Elm	6
Baker St.	West line of Elm.	6
Baker St.	East line of Elm.	6
Baker St.	East line of Calef Rd.	6
Bank St.	East line of Huntress.	6
Barr St.	North line of Granite.	4
Barr St.	North line of Douglas.	6
Bartlett St.	At junction of Amory.	8
Bartlett St.	In front of house No. 473.	8
Batchelder Ave.	South line of Hayward.	6
Bath St.	West line of Turner.	6
Bay St.	North line of Sagamore.	6
Bay St.	South line of North.	6
Bay St.	North line of North.	6
Bay St.	South line of Webster.	6
Bay St.	North line of Clarke.	6
Bay St.	South line of Carpenter.	6
Beacon St.	North line of Hanover.	6
Beacon St.	South line of Lowell.	6
Beacon St.	North line of Lowell.	6
Beacon St.	South line of Bridge.	6
Bedford St.	South line of Granite.	10
Bedford St.	North line of Granite.	6
Bedford St.	South line of Central.	6
Bedford St.	North line of Central.	6
Beech St.	On south line of barn opposite French cemetery	8
Beech St.	South line of Elizabeth.	8
Beech St.	North line of Norfolk.	8
Beech St.	North line of Mystic.	8
Beech St.	North line of Mitchell.	8
Beech St.	North line of Willow.	8
Beech St.	South line of Shasta.	8
Beech St.	North line of Shasta.	8
Beech St.	On fire service to Sash & Blind shop.	4
Beech St.	South of track on hydrant branch.	6
Beech St.	On No. 2 fire service to Sash & Blind shop	6
Beech St.	North line of railroad fence.	12
Beech St.	South line of Somerville.	12
Beech St.	South line of Valley.	12
Beech St.	North line of Valley.	12
Beech St.	On blow-off at Green St.	6
Beech St.	South 6 ft. from south line of Lake Ave.	12
Beech St.	South line of Lake Ave.	12
Beech St.	North line of Lake Ave.	12
Beech St.	7 ft. north from north line of Lake Ave.	12
Beech St.	South line of Manchester.	12
Beech St.	South of Amherst on blow-off.	6
Beech St.	South line of Lowell.	12
Beech St.	North line of Lowell.	12
Beech St.	South line of Myrtle.	12
Beech St.	North line of Brook.	12
Beech St.	South of south line of Sagamore.	12
Beech St.	North of north line of Sagamore.	12
Beech St.	On hydrant branch at North.	6
Beech St.	South line of Webster.	12
Beech St.	North line of Webster.	12

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Bell St. ....	East line of Pine.....	6
Bell St. ....	East line of Union.....	6
Bell St. ....	West line of Beech.....	6
Bell St. ....	East line of Wilson.....	6
Bell St. (W. M.).....	East line of Second.....	6
Bell St. (W. M.).....	West line of Wentworth.....	6
Belmont St. ....	North line of Manning.....	6
Belmont St. ....	North line of Cilley Rd.....	6
Belmont St. ....	North line of Howe.....	6
Belmont St. ....	North line of Clay on east side of Belmont.....	6
Belmont St. ....	North line of Harvard.....	6
Belmont St. ....	South line of Valley.....	6
Belmont St. ....	North line of Valley.....	6
Belmont St. ....	North line of Summer.....	6
Belmont St. ....	Near southeast corner of Massabesic.....	6
Belmont St. ....	South line of Lowell.....	6
Belmont St. ....	North line of Lowell.....	6
Belmont St. ....	South line of Bridge.....	6
Belmont St. ....	North line of Bridge.....	6
Belmont St. ....	South line of Pearl.....	6
Belmont St. ....	North line of Pearl.....	8
Belmont St. ....	North line of Prospect.....	8
Bennington St. ....	West line of Main.....	6
Birch St. ....	North line of Lowell.....	6
Birch St. ....	South line of Bridge.....	6
Bismarck St. ....	North line of Milford.....	6
Blaine St. ....	East line of South Main.....	6
Blaine St. ....	West line of Second.....	6
Blaine St. ....	East line of Second.....	6
Blair St. ....	West line of Brown Ave.....	6
Blodget St. ....	East line of Elm.....	6
Blodget St. ....	West line of Union.....	6
Blodget St. ....	West line of Walnut.....	6
Blodget St. ....	West line of Beech.....	6
Blodget St. ....	East line of Beech.....	6
Blodget St. ....	West line of Maple.....	6
Blodget St. ....	West line of Russell.....	6
Boutwell St. ....	North line of Amory.....	6
Boutwell St. ....	South line of Kelley.....	6
Boutwell St. ....	North line of Kelley.....	6
Boutwell St. ....	South line of Bremer.....	6
Bowman St. ....	South line of Mast St.....	6
Bowman St. ....	North line of Milford.....	6
Bowman St. ....	South line of Milford.....	4
Boynton St. ....	South of south line of A.....	6
Boynton St. ....	North of Allen 213 ft.....	6
Boynton St. ....	North line of Grant.....	8
Bremer St. ....	West line of Coolidge Ave.....	6
Bremer St. ....	In front of No. 49.....	6
Bremer St. ....	West line of Alsace.....	6
Bremer St. ....	West line of Laval.....	6
Bremer St. ....	East line of Elm.....	8
Bridge St. ....	West line of Chestnut.....	8
Bridge St. ....	West line of Pine.....	8
Bridge St. ....	9 ft. east from west line of Beech.....	6
Bridge St. ....	7 ft. west from east line of Beech.....	6
Bridge St. ....	West line of Maple.....	6
Bridge St. ....	West line of Russell.....	6
Bridge St. ....	West line of Ashland.....	6
Bridge St. ....	East line of Ashland.....	6
Bridge St. ....	West line of Belmont.....	6
Bridge St. ....	East line of Belmont.....	8
Bridge St. ....	West line of Highland.....	8
Bridge St. ....	West line of Mammoth Rd.....	8
Bridge St., West.....	West line of Elm.....	8
Bridge St., West.....	East line of Canal.....	8
Bridge St., West.....	West line of Canal.....	8
Bridge St., West.....	Under bridge near river.....	8

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Bridge St., West.....	On blow-off under bridge.....	6
Bridge St., West.....	Under bridge near west bank of river...	8
Bridge St., West.....	East line of McGregor.....	8
Bridge St., Old.....	East line of Hall Rd.....	6
Bridge St., Old.....	13 ft. west of above gate.....	6
Brook St. ....	North line of Milford.....	6
Brook St. ....	East line of Elm.....	6
Brook St. ....	18 ft. east of west line of Chestnut.....	6
Brook St. ....	West line of Union.....	6
Brook St. ....	West line of Beech.....	6
Brook St. ....	East line of Beech.....	6
Brook St. ....	West line of Maple.....	6
Brook St., West.....	West line of Elm.....	6
Brook St., West.....	4 ft. east of east line of Canal.....	6
Brown Ave. ....	In front of No. 50 Elm.....	6
Brown Ave. ....	South of Hancock St.....	6
Brown Ave. ....	On fire service to Tannery.....	6
Brown Ave. ....	Near Gerrish place.....	6
Brown Ave. ....	Near Webster place on hydrant branch.....	6
Brown Ave. ....	In front of Calef place, north of Beech....	10
Brown Ave. ....	On hydrant branch, north of Brook.....	6
Brown Ave. ....	9 ft. south of above hydrant.....	10
Brown Ave. ....	North line of P. Riley land.....	10
Brown Ave. ....	On hydrant branch opposite P. Riley's barn .....	6
Brown Ave. ....	On hydrant branch south of Moore Rd.....	6
Brown Ave. ....	On service pipe to Park.....	6
Brown Ave. ....	On hydrant branch opp. Walker's house..	6
Brown Ave. ....	On hydrant branch north of Nettle's house	6
Brown Ave. ....	6 ft. south of the north line of Mill Ave...	10
Brown Ave. ....	On hydrant branch opposite school.....	6
Buzzell St. ....	17 ft. from north line of Lowell.....	6
Buzzell St. ....	South line of East High.....	6
Buzzell St. ....	North line of East High.....	4
Buzzell St. ....	South line of Bridge.....	4
Byron St. ....	West line of Brown Ave.....	8
Byron St. ....	East of McElwain.....	8
Byron St. ....	West of B. & M. main line.....	10
C St. ....	East line of B.....	6
C St. ....	West line of Boynton.....	6
Calef Rd. ....	North line of Brown Ave.....	10
Calef Rd. ....	On hydrant branch north of Brown Ave.	6
Calef Rd. ....	On service pipe to Pine Grove cemetery..	4
Calef Rd. ....	On hydrant branch opposite Poor's house	6
Calef Rd. ....	South line of Titus Ave.....	10
Calef Rd. ....	North line of Titus Ave.....	10
Calef Rd. ....	On hydrant branch north of Mystic.....	6
Calef Rd. ....	South line of Mitchell.....	10
Calef Rd. ....	South of Harrington house.....	8
Calef Rd. ....	North line of Baker.....	6
Canal St. ....	South line of Cedar.....	8
Canal St. ....	South line of Granite.....	8
Canal St. ....	North line of Depot.....	8
Canal St. ....	On hydrant branch north of Depot S....	6
Canal St. ....	South line of Merrimack.....	8
Canal St. ....	North line of Market St.....	8
Canal St. ....	South line of Bridge.....	8
Canal St. ....	North line of Bridge.....	8
Canal St. ....	South line of Hollis.....	8
Canal St. ....	South line of Langdon.....	8
Canal St. ....	North line of Pennacook.....	8
Candia Rd. ....	On hydrant branch east of Mammoth Rd.	6
Candia Rd. ....	East line of Platts Ave.....	20
Candia Rd. ....	On hydrant branch east of Platts Ave....	6
Candia Rd. ....	On hydrant branch opposite Quirin's....	6
Candia Rd. ....	On blow-off opposite Francis' place.....	6
Candia Rd. ....	On hydrant's branch opposite Savory's....	6
Candia Rd. ....	At Proctor Rd.....	10
Candia Rd. ....	On hydrant branch.....	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Candia Rd.	South line of Hanover	10
Candia Rd.	South of Cram's house	10
Candia Rd.	North of Proctor's house	10
Candia Rd.	On hydrant branch opposite schoolhouse	6
Candia Rd.	At Groveland Ave.	8
Candia Rd.	On hydrant branch at Groveland Ave.	6
Candia Rd.	On hydrant branch	6
Candia Rd.	On hydrant branch at pavilion	6
Candia Rd.	On branch to Burke's	6
Canton St.	South line of Lake Ave.	6
Carpenter St.	West line of Union	6
Carpenter St.	East line of Elm	6
Carroll St.	North line of Milford	6
Cartier St.	South line of Coolidge Ave.	6
Cartier St.	North line of Amory	6
Cartier St.	South line of Wayne	6
Cartier St.	North line of Conant	6
Cass St.	North line of Lake Ave.	6
Cass St.	South line of Laurel	6
Cedar St.	East line of Elm	8
Cedar St.	West line of Pine	6
Cedar St.	East line of Pine	6
Cedar St.	West line of Beech	6
Cedar St.	East line of Beech	6
Cedar St.	East line of Wilson	6
Cedar St., West	West line of Elm	6
Cedar St., West	On fire service to machine shop	6
Cedar St., West	On fire service to Manchester Supply Co.	4
Cedar St., West	East line to Canal	6
Central St.	East line of Elm	8
Central St.	West line of Pine	8
Central St.	East line of Pine	6
Central St.	West line of Beech	6
Central St.	East line of Beech	6
Central St.	West line of Maple	6
Central St.	West line of Wilson	6
Central St.	East line of Wilson	6
Central St.	West of Belmont	6
Central St.	East of Milton	6
Central St., West	West line of Elm	6
Central St., West	On fire service to Kimball's	6
Central St., West	On fire service to R. G. Sullivan's	6
Central St., West	East line of Canal	6
Central St., West	West line of Canal	6
Charlestown Ave.	West line of Rochelle Ave.	6
Charlestown Ave.	East line of Rochelle Ave.	6
Chase Ave.	North line of Hospital Ave.	6
Chase Ave.	South line of Hayes Ave.	6
Chestnut St.	North line of Cedar	4
Chestnut St.	South line of Lake Ave.	6
Chestnut St.	North line of Central	4
Chestnut St.	South line of Merrimack	4
Chestnut St.	North line of Merrimack	4
Chestnut St.	South line of Hanover	4
Chestnut St.	11 ft. south of north line of Hanover	4
Chestnut St.	5 ft. south of south line of Amherst	4
Chestnut St.	North line of Lowell	6
Chestnut St.	South line of Bridge	6
Chestnut St.	7 ft. south of north line of Bridge	6
Chestnut St.	North line of Pearl	8
Chestnut St.	6 ft. south of north line of Orange	8
Chestnut St.	6 ft. north of north line of Myrtle	8
Chestnut St.	7 ft. south of north line of Prospect	8
Chestnut St.	8 ft. south of north line of Harrison	8
Chestnut St.	8 ft. south of north line of Brook	6
Chestnut St.	North line of Sagamore	6
Chestnut St.	South line of North	6
Chestnut St.	North line of North	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Chestnut St.	South line of Webster.	6
Chestnut St.	2 ft. south of north line of Appleton.	6
Chestnut St.	South line of Clarke.	6
Chestnut St.	North line of Clarke.	6
Chestnut St.	South line of Carpenter.	6
Chestnut St.	North line of Carpenter.	6
Cilley Rd.	West line of Mammoth Rd.	8
Cilley Rd.	East line of Taylor.	6
Cilley Rd.	West line of Taylor.	6
Cilley Rd.	West line of Belmont.	6
Clarke St.	West line of Elm.	6
Clarke St.	East line of Elm.	6
Clarke St.	West line of Union.	6
Clay St.	West line of Wilson.	6
Clay St.	East line of Wilson.	6
Clay St.	West line of Hall.	6
Clay St.	East line of Taylor.	6
Clay St.	West line of Jewett.	6
Clement St.	South line of Dickey.	6
Cleveland St.	East line of Second.	6
Cleveland St.	West line of Second.	6
Clinton St.	West line of Main.	6
Clinton St.	East line of West.	6
Clough Ave.	South line of Spruce.	6
Cody St.	North line of Candia Rd.	6
Cohas Ave.	On hydrant branch.	6
Cohas Ave.	Inside fence at reservoir.	24
Cohas Ave.	To connect Mammoth Rd.	8
Cohas Ave.	Top of hill near reservoir.	24
Cohas Ave.	On hydrant branch.	6
Cohas Ave.	At Dickey Rd.	24
Cohas Ave.	North from station.	20
Cohas Ave.	North from station.	20
Cohas Ave.	On blow-off at brook.	8
Cohas Ave.	On blow-off at station.	6
Cohas Ave.	On hydrant branch.	6
Colby St.	At corner of Log.	8
Columbus St.	South line of Amory.	6
Conant St.	West line of Main.	6
Conant St.	8 ft. west of west line of Barr.	6
Conant Rd.	South line of Derry Rd.	6
Conant Rd.	On hydrant branch at schoolhouse.	6
Conant Rd.	On hydrant branch, Page's.	6
Concord St.	East line of Elm.	8
Concord St.	8 ft. east of west line of Pine.	6
Concord St.	East line of Pine.	6
Concord St.	West line of Beech.	6
Concord St.	East line of Beech.	6
Concord St.	In front of High school.	6
Concord St.	West line of Maple.	6
Concord St.	West line of Ashland.	6
Concord St.	East line of Ashland.	6
Concord St.	West line of Beacon.	6
Concord St.	East line of Beacon.	6
Congress St.	South line of Amory.	6
Coolidge Ave.	North line of Kelley.	8
Coolidge Ave.	South line of Bremer.	8
Coolidge Ave.	On hydrant branch near No. 304.	6
Coolidge Ave.	South line of Mason.	8
Coolidge Ave.	West line of Rimmon.	8
Coolidge Ave.	On hydrant branch corner Rimmon.	6
Cove St.	26 ft. west of west line of Elm.	12
Cove St.	On hydrant branch at Gas Works.	6
Cove St.	At Gas Works.	12
Cove St.	East of River.	12
Cumberland St.	South line of Amory.	6
Cypress St.	South line of Spruce.	6
Cypress St.	North line of Valley.	6



## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Cypress St.	South line of Valley.	6
Cypress St.	South line of Young.	6
Cypress St.	North line of Somerville.	6
Cypress St.	South line of Somerville.	6
Cypress St.	North line of Vinton.	6
D St.	West line of Mast Rd.	6
Dartmouth St.	South line of West Hancock.	6
Davignon St.	20 ft. north of north line of Pinard.	6
Dean St.	15 ft. east of west line of Elm.	6
Dean St.	6 ft. west of east line of Canal.	6
Dearborn St.	West line of Taylor.	6
Delaware Ave.	North line of Hanover.	6
Depot St.	16 ft. east of west line of Elm.	14
Depot St.	On hydrant branch, corner of Elm.	6
Depot St.	On hydrant branch west of Franklin.	6
Derry Rd.	On hydrant branch east of Mammoth Rd.	6
Derry Rd.	East of hydrant.	8
Derry Rd.	South line of Dickey Rd.	6
Derry Rd.	On hydrant branch north of Page's.	6
Derry Rd.	South of hydrant.	6
Derry Rd.	East line of Conant Rd.	6
Derry Rd.	On hydrant branch near Mentor brook.	6
Dickey St.	East line of Sylvester.	6
Dickey Rd.	In line with south line of Bird's house.	8
Dickey Rd.	On hydrant branch north of Dunbar house	6
Dickey Rd.	On hydrant branch, corner Cohas Ave.	6
Dickey Rd.	West line of Cohas Ave.	8
Dickey Rd.	East line of Cohas Ave.	8
Dix St.	East line of Maple.	6
Dix St.	East line of Lincoln.	6
Dix St.	West line of Wilson.	6
Dix St.	East line of Wilson.	6
Dix St.	West line of Hall.	6
Dix St.	East line of Taylor.	6
Donahue St.	North line of Sheridan.	6
Donald St.	South line of Milford.	6
Donald St.	West of Pike.	8
Douglas St.	East line of Railroad.	6
Douglas St.	East line of Barr.	6
Douglas St.	West line of Main.	6
Douglas St.	East line of Main.	6
Douglas St.	West line of Turner.	6
Dover St.	South line of Granite.	4
Dover St.	6 ft. south of south line of Douglas.	4
Dubuque St.	North line of Conant.	6
Dubuque St.	South line of Amory.	6
Dubuque St.	North line of Amory.	6
Dubuque St.	North line of Kelley.	6
Dubuque St.	South line of Bremer.	6
Dunbarton Rd.	Inside fence, northwest corner Front St.	6
Dutton St.	North line of Amherst.	4
Eddy Rd.	Near north end of Coolidge Mill yard.	10
Eddy Rd.	On blow-off to Eddy.	8
Eddy Rd.	On hydrant branch near slaughter house.	6
Eddy Rd.	South of Mill St.	10
Edgemere Ave.	East line of Calef Rd.	6
Edmond St.	South line of Henriette.	6
Elliott Place	East line of River Rd.	4
Elm St.	On hydrant branch south of Baker.	6
Elm St.	South line of Baker.	12
Elm St.	South line of Brown Ave.	12
Elm St.	On hydrant branch at Gas Works.	6
Elm St.	South line of Cove.	12
Elm St.	North line of Valley.	14
Elm St.	On hydrant branch opposite Grove.	6
Elm St.	On hydrant branch opposite Green.	6
Elm St.	On hydrant branch opposite Summer.	6
Elm St.	North line of Auburn.	14

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Elm St.	South line of Lake Ave.	14
Elm St.	North line of Depot	14
Elm St.	South line of Central	14
Elm St.	North line of Merrimack	14
Elm St.	On hydrant branch north of Dean Ave.	6
Elm St.	South line of Stark	14
Elm St.	South line of Water	14
Elm St.	South line of Lowell	14
Elm St.	North line of Lowell	14
Elm St.	South line of Kidder	14
Elm St.	South line of Brook	14
Elm St.	On hydrant branch north of Salmon	6
Elm St.	South line of Appleton	14
Elm St.	North line of Clarke	14
Elm St.	On hydrant branch at Thayer	6
Elm St.	At Thayer St.	14
Elm St.	South line of Carpenter	14
Elm St.	South line of Trenton	14
Elm St.	On hydrant branch north of Trenton	6
Elm St.	On hydrant branch south of Rowell	6
Elm St.	South line of Rowell	12
Elmhurst Ave.	East line of Calef Rd.	6
Erie St.	West line of South Main	6
Erie St.	East line of Boynton	8
Essex St.	South line of Amory	6
Everett St.	South line of Clarke	4
Everett St.	North line of Clarke	4
Falls Ave.	East line of Falls Rd.	6
Falls Rd.	At Massabesic	6
Farmer St.	West line of Candia Rd.	6
Ferry St.	20 ft. east of east line of South Main	12
Fibre St.	East line of Front	6
Forest St.	South line of Mast	6
Forest St.	North line of Sylvester	6
Foster Ave.	North line of Hayward St.	4
Fourth St.	South line of Walker	6
Franklin St.	South line of Cedar	6
Franklin St.	North line of Cedar	6
Franklin St.	South line of Depot	6
Franklin St.	13 ft. south of north line of Depot	6
Franklin St.	7½ ft. south of north line of Merrimack	6
Franklin St.	South line of Market	6
Frederick St.	West line of Second	6
Frederick St.	West line of Dartmouth	6
Front St.	At Goffstown Rd.	8
Front St.	Opposite Maxwell's garage near bridge	8
Garmon St.	North line of Hanover	6
Gates St.	East line of Rimmon	6
Gates St.	West line of Cartier	6
George St.	North line of Milford	8
Gertrude St.	12 ft. south of north line of Hanover	6
Gilford St.	South line of Erie	8
Glendale St.	West line of Jewett	6
Glenwood Ave. (E. M.)	East line of Hall Rd.	6
Glenwood Ave. (E. M.)	On fire service to Shoe shop	6
Glenwood Ave. (E. M.)	On fire service to Shoe shop	6
Glenwood Ave. (E. M.)	At Mammoth Rd.	6
Glenwood Ave. (E. M.)	West line of Woodland Ave.	6
Glenwood Ave. (E. M.)	East line of Page	6
Glenwood Ave. (E. M.)	West line of Lovering	6
Goffe St.	East line of Main	6
Goffe St.	East line of Dartmouth	6
Goffstown Rd.	West line of Front	6
Goffstown Rd.	West of Omega	6
Goffstown Rd.	On service pipe to cemetery	4
Goffstown Rd.	West of Hanscom's place	6
Gold St.	At branch at Calef Rd.	6
Granite St.	West line of Elm	6
Granite St.	East line of Canal	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Granite St.	West of B. & M. track.....	14
Granite St.	On 14" to A. M. Co. yard.....	14
Granite St.	Opposite New Print Works.....	8
Granite St.	On hydrant branch east of Bridge.....	6
Granite St.	East end of Bridge.....	8
Granite St.	West end of Bridge.....	8
Granite St.	East of west line of Turner.....	6
Granite St.	West line of Turner.....	10
Granite St.	East line of Main.....	10
Granite St.	West line of Main.....	6
Granite St.	West line of West.....	6
Granite St.	North line of Winter.....	4
Green St. (E. M.)	East line of Pine.....	6
Green St. (E. M.)	East line of Union.....	6
Green St. (E. M.)	East line of Wilson.....	6
Green St. (W. M.)	North line of Douglas.....	6
Green St. (W. M.)	North line of Granite.....	4
Grove St.	East line of Pine.....	6
Grove St.	West line of Beech.....	6
Grove St.	East line of Wilson.....	6
Grove St.	West line of Belmont.....	6
Grove St.	East line of Belmont.....	6
Hall St.	North line of Cilley Rd.....	6
Hall St.	South line of Dix.....	6
Hall St.	North line of Silver.....	6
Hall St.	North line of Harvard.....	8
Hall St.	On fire service to Shoe shop.....	6
Hall St.	On fire service to Shoe shop.....	6
Hall St.	South line of Cedar.....	6
Hall St.	North line of Bridge.....	6
Hall Rd.	South of Shoe shop.....	6
Hall Rd.	On fire service to Wrapper factory.....	4
Hall Rd.	South line of Nelson.....	6
Hall Rd.	South line of Benton.....	6
Hancock St.	West line of Brown Ave.....	6
Hancock St.	On hydrant branch 275 ft. west of Ham- ilton.....	6
Hancock St.	On hydrant branch at Brewery.....	6
Hancock St., West.	East line of South Main.....	6
Hancock St., West.	On fire service to Craft's shop.....	6
Hancock St., West.	On fire service to Craft's shop.....	4
Hancock St., West.	On fire service to Green's shop.....	6
Hancock St., West.	Opposite No. 67 Hancock.....	6
Hanover St.	East line of Elm.....	8
Hanover St.	On fire service to Odd Fellows block.....	6
Hanover St.	West line of Chestnut.....	8
Hanover St.	West line of Pine.....	8
Hanover St.	East line of Pine.....	6
Hanover St.	East line of Union.....	6
Hanover St.	West line of Beech.....	6
Hanover St.	East line of Beech.....	6
Hanover St.	West line of Ashland.....	6
Hanover St.	East line of Wilson.....	6
Hanover St.	West line of Belmont.....	6
Hanover St.	West of west line of Beacon.....	6
Hanover St.	East of hydrant, east of Alfred.....	6
Hanover St.	West line of Mammoth Rd.....	6
Hanover St.	East line of Mammoth Rd.....	10
Hanover St.	At Lake Ave.....	10
Hanover St.	At Lake Ave.....	10
Hanover St.	On branch to blow-off.....	6
Hanover St.	On branch to blow-off, Bell orchard.....	6
Hanover St.	At Bell orchard.....	10
Harriman St.	South line of Sheridan.....	6
Harriman St.	North line of Sheridan.....	6
Harrington St.	West line of Calef Rd.....	6
Harrison St.	East line of Elm.....	6
Harrison St.	West line of Pine.....	6

LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Harrison St.	West line of Beech.	6
Harrison St.	East line of Beech.	6
Harrison St.	West line of Russell.	6
Harrison St.	West line of Linden.	6
Harrison St.	East line of Linden.	6
Harrison St.	West line of Hall.	6
Harvard St.	East line of Beech.	6
Harvard St.	West line of Wilson.	6
Harvard St.	East line of Wilson.	6
Harvard St.	West line of Belmont.	6
Harvell St.	East line of South Main.	6
Hayes Ave.	North line of Massabesic.	6
Hayward St.	East line of Pine.	6
Hayward St.	West line of Beech.	6
Hayward St.	East line of Beech.	6
Hayward St.	West line of Lincoln.	6
Hayward St.	On fire service to Leighton's.	6
Hayward St.	West line of Wilson.	6
Hayward St.	West line of Hall.	6
Hayward St.	East line of Belmont.	6
Hayward St.	East line of Taylor.	6
Hayward St.	West line of Jewett.	6
Hayward St.	West line of Mason.	6
Hayward St.	West line of Mammoth Rd.	12
Hazel St.	North line of Harrison.	4
Head St.	North line of Mast.	6
Head St.	On hydrant branch north of Dunham.	6
Head St.	On hydrant branch south of McClintock.	6
Henriette St.	East line of Mast.	6
Hevey St.	North line of Conant.	6
Hevey St.	South line of Amory.	6
Hevey St.	North line of Amory.	6
Hevey St.	South line of Kelley.	6
Hevey St.	North line of Kelley.	6
Hevey St.	South line of Bremer.	6
Hevey St.	South line of Mason.	6
Hevey St.	North line of Mason.	6
High St.	West line of Pine.	4
High St.	East line of Pine.	4
High St.	West line of Union.	4
High St., East.	East line of Maple.	6
High St., East.	West line of Ashland.	6
High St., East.	East line of Ashland.	6
High St., East.	West line of Belmont.	6
High St., East.	East line of Belmont.	6
High St., East.	East line of Beacon.	6
High service station	West of station.	20
High service station	West of station.	20
High service station	On branch to blow-off at station.	10
High service station	On branch to hydrant at station.	6
Highland St.	North line of Hanover.	6
Highland St.	North line of Lowell.	6
Highland St.	South line of Bridge.	6
Highland Ave.	South line of Wilkins.	6
Highland Park Ave.	North line of Candia Rd.	6
Hillcrest Ave.	East line of Brown Ave.	6
Hillcrest Ave.	West line of Calef Rd.	6
Hollis St.	East of west line of Elm.	6
Hollis St.	West of A. L. Co's office.	6
Hollis St.	East line of Canal.	6
Holly Ave.	West line of Cypress.	6
Holly Ave.	East line of Taylor.	6
Holly Ave.	West line of Taylor.	6
Hosley St.	North line of Grove.	6
Howe St.	East line of Maple.	6
Howe St.	East line of Lincoln.	6
Howe St.	West line of Wilson.	6
Howe St.	East line of Wilson.	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Hubbard St. ....	South line of Concord.....	6
Jane St. ....	North line of Lowell.....	4
Jane St. ....	East line of Nashua.....	4
Jewett St. ....	North line of Valley.....	6
Jewett St. ....	South line of Valley.....	6
Jewett St. ....	South line of Hayward.....	8
Jewett St. ....	North line of Somerville.....	8
Joliette St. ....	North line of Amory.....	6
Joliette St. ....	South line of Kelley.....	6
Joliette St. ....	North line of Kelley.....	6
Joliette St. ....	South line of Bremer.....	6
Jones St. ....	North line of Nelson.....	6
Kearsarge St. ....	South line of Amory.....	6
Kelley St. ....	West line of Coolidge Ave.....	6
Kelley St. ....	West line of Dubuque.....	6
Kelley St. ....	East line of Laval.....	6
Kelley St. ....	East line of Morgan.....	6
Kelley St. ....	East line of Joliette.....	6
Kennedy St. ....	West line of Brown Ave.....	6
Kidder St. ....	West line of Elm.....	6
Kidder St. ....	East line of Canal.....	6
Kidder Court .....	East from west line of Elm on hydrant branch .....	6
Kidder Court .....	West line of Elm.....	6
Knowlton St. ....	South line of Hayward.....	6
Knowlton St. ....	North line of Johnson.....	6
Lafayette St. ....	North line of Amory.....	6
Lafayette St. ....	South line of Kelley.....	6
Lafayette St. ....	North line of Kelley.....	6
Lake Ave. ....	East line of Elm.....	20
Lake Ave. ....	On hydrant branch east of Elm.....	6
Lake Ave. ....	On hydrant branch west of Chestnut.....	6
Lake Ave. ....	On hydrant branch west of Union.....	6
Lake Ave. ....	East of west line of Beech.....	20
Lake Ave. ....	On hydrant branch west of Maple.....	6
Lake Ave. ....	On hydrant branch west of Lincoln.....	6
Lake Ave. ....	East of west line of Wilson.....	20
Lake Ave. ....	West line of Hall.....	6
Lake Ave. ....	East of east line of Canton.....	6
Lake Ave. ....	East of east line of Kenney.....	6
Lake Ave. ....	East line of Mammoth Rd.....	6
Lake Ave. ....	At Hanover St.....	6
Lake Shore Rd. ....	On hydrant branch.....	6
Lamprey St. ....	South line of Mast Rd.....	6
Lamprey St. ....	East line of Rockland Ave.....	6
Langdon St. ....	East of west line of Elm.....	6
Langdon St. ....	East line of Canal.....	6
Laurel St. ....	West line of Pine.....	6
Laurel St. ....	East line of Pine.....	6
Laurel St. ....	West line of Beech.....	6
Laurel St. ....	East line of Beech.....	6
Laurel St. ....	West of west line of Maple.....	6
Laurel St. ....	West line of Wilson.....	6
Laurel St. ....	East line of Wilson.....	6
Laurel St. ....	West line of Hall.....	6
Laurel St. ....	East line of Beacon.....	6
Laurel St. ....	East line of Cass.....	6
Laval St. ....	North line of Amory.....	6
Laval St. ....	South line of Kelley.....	6
Laval St. ....	North line of Kelley.....	6
Laval St. ....	South line of Bremer.....	6
Liberty St. ....	North line of North.....	6
Lincoln St. ....	North line of Merrimack.....	6
Lincoln St. ....	South line of Amberst.....	4
Lingard St. ....	West line of Willow.....	6
London St. ....	East line of Maryland Ave.....	6
Londonderry Rd. ....	At Brown Ave.....	8
Londonderry Rd. ....	On hydrant branch opposite Melrose house	6

LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Londonderry Rd. ....	On hydrant branch west of Woodlawn Ave. ....	6
Londonderry Rd. ....	East line of Woodlawn Ave. ....	8
Londonderry Rd. ....	East of second hydrant, east of Woodlawn Ave. ....	8
Londonderry Rd. ....	East of third hydrant, east of Woodlawn Ave. ....	8
Longwood Ave. ....	West of east line of Mammoth Rd. ....	6
Longwood Ave. ....	West line of Woodbine Ave. ....	6
Lowell St. ....	East line of Elm. ....	12
Lowell St. ....	East of Elm on hydrant branch. ....	6
Lowell St. ....	East line of Pine. ....	12
Lowell St. ....	On hydrant branch west of Beech. ....	6
Lowell St. ....	East of west line of Beech. ....	12
Lowell St. ....	East line of Beech. ....	12
Lowell St. ....	On hydrant branch west of Ash. ....	6
Lowell St. ....	On blow-off branch, east line of Maple. ....	6
Lowell St. ....	On hydrant branch west of Jane. ....	6
Lowell St. ....	On hydrant branch west of Malvern. ....	6
Lowell St. ....	On hydrant branch west of Ashland. ....	6
Lowell St. ....	West line of Ashland. ....	12
Lowell St. ....	East line of Ashland. ....	12
Lowell St. ....	On hydrant branch west of Hall. ....	6
Lowell St. ....	On hydrant branch west of Belmont. ....	6
Lowell St. ....	On hydrant branch west of Beacon. ....	6
Lowell St. ....	On hydrant branch west of Weston. ....	6
Lowell St. ....	On hydrant branch west of Highland. ....	6
Lowell St. ....	West line of Highland. ....	12
Lowell St. ....	West line of Mammoth Rd. ....	12
McDuffie St. ....	West line of Boynton. ....	6
McElwain St. ....	South line of Byron. ....	6
McGregor St. ....	West of east line of Main. ....	6
McGregor St. ....	On branch to A. M. Co., south of Amory back street. ....	6
McGregor St. ....	South line of Amory. ....	6
McGregor St. ....	East line of Main. ....	6
McNeil St. ....	East line of Second. ....	6
Main St. ....	North line of Amory. ....	10
Main St. ....	South of Wayne. ....	10
Main St. ....	On branch to A. M. Co., south of McGregor. ....	6
Main St. ....	South line of Wilton. ....	10
Main St. ....	North of north line of Granite. ....	10
Main St. ....	North of north line of Clinton. ....	10
Main St. ....	South line of Ferry. ....	10
Main St. ....	North line of Blaine. ....	10
Main St. ....	South line of Winter. ....	10
Main St. ....	South of stone bridge. ....	10
Main St. ....	South of Log. ....	10
Main St. ....	North line of Goffe. ....	10
Main St. ....	South line of A. ....	10
Main St. ....	North line of Allen. ....	10
Main St. ....	Opposite No. 636. ....	10
Main St. ....	West line of Second. ....	10
Malvern St. ....	North line of Concord. ....	4
Malvern St. ....	South line of East High. ....	4
Malvern St. ....	South line of Bridge. ....	4
Mammoth Rd. ....	South of Mooresville Rd. ....	8
Mammoth Rd. ....	South of Mooresville Rd. on hydrant branch. ....	6
Mammoth Rd. ....	North of Mooresville Rd. on hydrant branch. ....	6
Mammoth Rd. ....	South of Garland house. ....	8
Mammoth Rd. ....	North of Kimball's house on hydrant branch. ....	6
Mammoth Rd. ....	185 ft. south of Cohas Ave. ....	8
Mammoth Rd. ....	175 ft. south of Cohas Ave. on hydrant branch. ....	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Mammoth Rd.	South of Mercy home on hydrant branch	6
Mammoth Rd.	South line of Wayland Ave.	20
Mammoth Rd.	On branch to blow-off at Cemetery Brook	6
Mammoth Rd.	On branch to blow-off at Nelson St.	6
Mammoth Rd.	On branch to blow-off north of Willard.	6
Mammoth Rd.	South line of Lake Ave.	20
Mammoth Rd.	On hydrant branch north of Isolation hospital	6
Mammoth Rd.	On hydrant branch south of Lowell.	6
Mammoth Rd.	South line of Lowell.	20
Mammoth Rd.	South line of Old Bridge.	6
Manchester St.	East line of Elm.	8
Manchester St.	West line of Chestnut.	8
Manchester St.	West line of Pine.	6
Manchester St.	East line of Pine.	6
Manchester St.	West line of Union.	6
Manchester St.	West line of Beech.	6
Manchester St.	East line of Beech.	6
Manchester St.	West line of Lincoln.	6
Manchester St.	West line of Wilson.	6
Manchester St.	East line of Wilson.	6
Maple St.	North line of Shasta	6
Maple St.	South line of Somerville.	6
Maple St.	South line of Hayward.	6
Maple St.	South line of Concord.	6
Maple St.	North line of Concord.	6
Maple St.	North line of Lowell.	6
Maple St.	North line of Nashua.	6
Maple St.	South line of Bridge.	6
Maple St.	North line of Bridge.	10
Maple St.	South line of Myrtle.	10
Maple St.	South line of Prospect.	10
Maple St.	North line of Harrison.	4
Maple St.	North line of Blodget.	6
Marion St.	West line of McGregor.	6
Marion St.	East line of Main.	6
Market St.	West line of Elm.	6
Market St.	West of Hampshire Lane.	6
Market St.	On fire service to N. H. Insurance Bldg.	6
Market St.	East of east line of Canal.	6
Mariboro St.	West line of Bowman.	6
Mason St.	West line of Rimmon.	12
Mason St.	On hydrant branch at Rimmon.	6
Mason St.	West line of Coolidge Ave.	12
Massabesic St.	Connection between high and low service	20
Massabesic St.	On hydrant branch west of Mammoth Rd.	6
Massabesic St.	East of No. 773.	20
Massabesic St.	On branch to blow-off.	6
Massabesic St.	West of culvert.	20
Massabesic St.	West of culvert on hydrant branch.	6
Massabesic St.	West of Taylor on hydrant branch.	6
Mast St.	West line of Main.	6
Mast St.	West line of Bowman.	6
Mast St.	East line of Head.	6
Mast Rd.	North of north line of Mast.	6
Mast Rd.	South of north line of Fogg Ave.	6
Mast Rd.	At Lamprey St.	8
Mast Rd.	North of Barnard's house.	8
Mast Rd.	South of blacksmith shop.	8
Mast Rd.	South line of Theophile.	8
Mead St.	West line of Belmont.	6
Mechanic St.	West line of Elm.	6
Mechanic St.	East line of Canal.	6
Merrill St.	East line of Jewett.	6
Merrill St.	On hydrant branch corner Mason St.	6
Merrimack St.	East line of Elm.	8
Merrimack St.	West line of Pine.	8
Merrimack St.	East line of Pine.	6

LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Merrimack St.	West of west line of Union	6
Merrimack St.	West line of Beech	6
Merrimack St.	East line of Beech	6
Merrimack St.	East line of Maple	6
Merrimack St.	West line of Wilson	6
Merrimack St.	East line of Wilson	6
Merrimack St.	West line of Belmont	6
Merrimack St.	West line of Beacon	6
Merrimack St.	East line of Beacon	6
Merrimack St.	West of Cass St.	6
Merrimack St.	In front of No. 557	6
Merrimack St.	At Hanover	6
Merrimack to Laurel connection	South line of Merrimack	6
Merrimack to Laurel connection	North line of Laurel	6
Merrimack St., West.	West line of Elm	6
Merrimack St., West.	West of east line of Canal	6
Middle St.	West line of Franklin	6
Middle St.	East line of Canal	6
Milford St.	West line of South Main	6
Milford St.	West line of Tilton	6
Milford St.	East line of Hillside Ave.	6
Milford Place	South line of Milford	6
Mill St.	East of east line of Front	6
Mill St.	In Old Paper Mill yard	6
Mill Ave.	On hydrant branch at end of pipe	6
Mitchell St.	East line of Calef Rd.	6
Mitchell St.	West line of Beech	6
Monitor St.	West line of Essex	6
Monroe St.	East of west line of Elm	6
Monroe St.	East line of North River Rd.	6
Montgomery St.	North line of Conant	6
Montgomery St.	North line of Amory	6
Montgomery St.	South line of Kelley	6
Montgomery St.	North line of Kelley	6
Morgan St.	North line of Amory	6
Myrtle St.	East line of Elm	8
Myrtle St.	West line of Pine	6
Myrtle St.	West line of Beech	6
Myrtle St.	East line of Beech	6
Myrtle St.	West line of Maple	6
Myrtle St.	East line of Maple	6
Myrtle St.	West line of Linden	6
Myrtle St.	East line of Linden	6
Myrtle St.	West line of Hall	6
Mystic St.	West line of Beech	6
Mystic Ave.	North line of Longwood Ave.	6
Nashua St.	South line of Lowell	4
Nelson St.	East line of Hall Rd.	6
Nelson St.	East of west line of Mammoth Rd.	6
Norfolk St.	West line of Beech	6
Norfolk St.	Near hydrant	6
North St.	East line of Elm	12
North St.	On hydrant branch west of Chestnut	6
North St.	West line of Beech	12
North St., West.	West line of Elm	12
North St., West.	On hydrant branch corner Elm	6
North St., West.	East line of North River Rd.	12
North St., West.	At North River Rd.	6
Notre Dame Ave.	North line of Conant	6
Notre Dame Ave.	South line of Adams	6
Notre Dame Ave.	North line of Sullivan	6
Notre Dame Ave.	South line of Amory	6
Notre Dame Ave.	North line of Amory	6
Oakland Ave.	40 ft. west of east line of Mammoth Rd.	6
Oakland Ave.	West line of Revere	6
Oakland Ave.	West line of Mystic	6
Omega St.	West line of Front	6
Omega St.	North of north line of Goffstown Rd.	4
Oneida St.	West line of South Main	6



## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Orange St.	East line of Elm.	8
Orange St.	West line of Pine.	6
Orange St.	West line of Beech.	6
Orange St.	East line of Beech.	6
Orange St.	West line of Maple.	6
Orange St.	East line of Maple.	6
Orange St.	West line of Linden.	6
Orange St.	West line of Hall.	6
Orange St.	West line of Belmont.	6
Orchard Ave.	North line of Candia Rd.	6
Orchard Ave.	North line of Oakland Ave.	6
Page St.	North line of Candia Rd.	6
Page St.	On fire service to Shoe shop.	4
Page St.	South line of Hanover.	6
Page St.	North line of Hanover.	6
Palmer St.	West line of North River Rd.	6
Park Ave.	East line of Crown.	6
Paris St.	East line of Pennsylvania Ave.	6
Parker Ave.	South line of Parker.	4
Parker St.	West line of Main.	4
Parker St.	North line of Winter.	4
Pearl St.	15 ft. west of east line of Elm.	8
Pearl St.	West line of Pine.	8
Pearl St.	East line of Pine.	6
Pearl St.	West line of Union.	6
Pearl St.	West line of Beech.	6
Pearl St.	East line of Beech.	6
Pearl St.	West line of Maple.	6
Pearl St.	East line of Maple.	6
Pearl St.	West line of Ashland.	6
Pearl St.	East line of Ashland.	6
Pearl St.	West line of Hall.	6
Pennacook St.	East line of Elm.	6
Pennacook St.	20 ft. east of west line of Elm.	6
Pennsylvania Ave.	North line of Hanover.	6
Pike St.	South line of Donald.	6
Pinard St.	East line of Mast Rd.	6
Pine St.	South line of Valley.	8
Pine St.	North line of Valley.	8
Pine St.	North line of Auburn.	8
Pine St.	South line of Lake Ave.	8
Pine St.	6 ft. south of north line of Lake Ave.	8
Pine St.	North line of Lake Ave.	8
Pine St.	North line of Merrimack.	8
Pine St.	North line of Hanover.	8
Pine St.	North line of Concord.	8
Pine St.	South line of Lowell.	8
Pine St.	North line of Lowell.	8
Pine St.	South line of Bridge.	8
Pine St.	8 ft. south of north line of Bridge.	8
Pine St.	North line of Harrison.	6
Pine St.	North line of Sagamore.	6
Pine St.	South line of North.	6
Pine St.	North line of North.	6
Platts Ave.	South line of Candia Rd.	6
Platts Ave.	North line of Candia Rd.	6
Pleasant St.	West line of Elm.	6
Pleasant St.	West of west line of Franklin.	6
Pleasant St.	West of east line of Canal.	6
Plummer St.	East line of Pine.	6
Porter St.	On hydrant branch south of Hayward.	6
Porter St.	South line of Hayward.	12
Porter St.	South line of Hayward.	6
Porter St.	North line of Hayward.	6
Prescott St.	East line of Wilson.	6
Prince St.	West line of Boynton.	6
Proctor Rd.	7 ft. northwest of line of stone wall.	10
Prospect St.	East line of Elm.	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Prospect St. ....	West line of Pine.....	6
Prospect St. ....	West line of Beech.....	6
Prospect St. ....	West line of Maple.....	6
Prospect St. ....	East line of Maple.....	6
Prospect St. ....	East line of Beech.....	6
Prospect St. ....	West line of Russell.....	6
Prospect St. ....	West line of Linden.....	6
Prospect St. ....	East line of Linden.....	6
Prospect St. ....	West line of Hall.....	6
Prout Ave. ....	South line of Hayward.....	6
Putnam St. ....	West line of Main.....	6
Putnam St. ....	10 ft. west of west line of Notre Dame Ave. ....	6
Putnam St. ....	East line of Dubuque.....	6
Putnam St. ....	West line of Bartlett.....	6
Putnam St. ....	West line of Thornton.....	6
Quincy St. ....	North line of Granite.....	4
Quincy St. ....	North line of Douglas.....	6
Railroad St. ....	South of Knoettner's house.....	6
Railroad St., West .....	Near shed .....	6
Railroad St., West .....	North of Koehler St.....	6
Ray St. ....	North line of Webster.....	6
Ray St. ....	North line of Appleton.....	6
Ray St. ....	South line of Clarke.....	6
Ray St. ....	North line of Clarke.....	6
Ray St. ....	North line of Carpenter.....	6
Ray St. ....	South line of Trenton.....	6
Reed St. ....	South line of Kelley.....	6
Reed St. ....	North line of Kelley.....	6
Revere Ave. ....	South line of Longwood.....	6
Revere Ave. ....	North line of Longwood.....	6
Revere Ave. ....	North line of Oakland.....	6
Riddle St. ....	South line of Mast.....	6
Riley Ave. ....	South line of Hayward.....	6
Rimmon St. ....	North line of Conant.....	6
Rimmon St. ....	South line of Amory.....	6
Rimmon St. ....	North line of Amory.....	6
Rimmon St. ....	North line of Kelley.....	6
Rimmon St. ....	North line of Bremer.....	8
Rimmon St. ....	North line of Bremer.....	12
Rimmon St. ....	South line of Coolidge Ave.....	12
River Rd. (Bedford) .....	East line of Second.....	8
River Rd. (Bedford) .....	62 ft. north of Currier's house.....	8
River Rd. (Bedford) .....	On hydrant branch near Woodbury's brook.....	6
River Rd., North.....	South line of North.....	8
River Rd., North.....	South of culvert.....	8
River Rd., North.....	South of No. 564.....	8
River Rd., North.....	South line of Ready.....	8
River Rd., North.....	South line of Clarke.....	8
River Rd., North.....	North line of Clarke house.....	8
River Rd., North.....	South line of Rowell.....	8
River Rd., North.....	North line of Rowell.....	8
River Rd., North.....	On line of wall between Rowell's and state land .....	8
River Rd., North.....	South line of Palmer.....	8
River Rd., North.....	North line of Savage.....	8
River Rd., North.....	North line of Arizona.....	8
River Rd., North.....	On hydrant branch at Arizona St.....	6
River Rd., North.....	On hydrant branch front of Stark school..	6
River Rd., North.....	Front of Farrell house.....	8
River Rd., North.....	On hydrant branch front of Farrell house	6
River Rd., North.....	On hydrant branch at Preston's house...	6
River Rd., North.....	Corner Union St., on hydrant branch...	6
River Rd., North.....	West line of Union St.....	8
Rochelle Ave. ....	South line of Mast.....	6
Rockland Ave. ....	South line of Kingston.....	6
Rockland Ave. ....	South line of Wilkins.....	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Rockland Ave.	North line of Wilkins	6
Rockland Ave.	South line of Shirley Hill Rd.	6
Rosedale Ave.	East line of Calef Rd.	6
Rowell St.	West line of Elm	8
Rowell St.	West line of River Rd.	6
Russell St.	North line of Harrison	6
Russell St.	South line of Blodget	6
Russell St.	North line of Blodget	6
Sagamore St.	West line of Union	6
Sagamore St.	West line of Beech	6
Sagamore St.	East line of Beech	6
Sagamore St.	West line of Oak	6
Sagamore St.	West line of Linden	6
Salisbury St.	North line of Hanover	6
Savage St.	West line of River Rd.	6
Schiller St.	West line of Wentworth	6
School St.	West line of Turner	6
School St.	East line of Main	6
Schuyler St.	West line of Main	6
Second St.	South line of Granite	6
Second St.	North line of School	6
Second St.	South line of Bath	6
Second St.	South of south line of Ferry Lane	6
Second St.	South line of Hancock	6
Second St.	South line of Frederick	6
Second St.	North line of Schiller	6
Second St.	South of Harvell	6
Second St.	On line between Fletcher and McQuestion land	6
Second St.	North of South Main	6
Shasta St.	East line of Brown Ave.	6
Shasta St.	West line of Elm	6
Shasta St.	West line of Beech	6
Shasta St.	East line of Beech	6
Shasta St.	West line of Maple	6
Shasta St.	East line of Lincoln	6
Shasta St.	West line of Hall	6
Sheridan St.	Southeast line of Boynton	6
Sherman St.	Northwest line of Boynton	6
Shirley Hill Rd.	West line of Mast	6
Silver St.	East line of Pine	6
Silver St.	West line of Beech	6
Silver St.	East line of Beech	6
Silver St.	On fire service to Eureka Shoe shop	6
Silver St.	On fire service to Hoyt's Shoe shop	6
Silver St.	West line of Wilson	6
Silver St.	East line of Wilson	6
Smyth Rd.	North line of Sagamore	8
Smyth Rd.	Between Sagamore and Webster, near hydrant	8
Somerville St.	East line of Union	6
Somerville St.	West line of Beech	6
Somerville St.	East line of Beech	12
Somerville St.	On fire service to B. H. Piper Co.	6
Somerville St.	West line of Wilson	12
Somerville St.	East line of Wilson	12
Somerville St.	West line of Taylor	12
Somerville St.	East line of Taylor	12
Somerville St.	West line of Jewett	12
Somerville St.	East line of Jewett	12
Somerville St.	On hydrant branch east of Young	6
Somerville St.	On hydrant branch west of Porter	6
Somerville St.	West line of Porter	12
South St.	North line of Lowell	6
South St.	South line of High	4
Spring St.	West line of Elm	6
Spring St.	East line of Canal	6
Springview Ave.	North line of Somerville	4

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Spruce St.	East line of Elm.	8
Spruce St.	East line of Pine.	6
Spruce St.	West line of Beech.	6
Spruce St.	East line of Beech.	6
Spruce St.	West line of Maple.	6
Spruce St.	West line of Wilson.	6
Spruce St.	East line of Wilson.	6
Spruce St.	West of Beacon near the brook.	6
Spruce St.	West line of Canton.	6
Spruce St.	East line of Canton.	6
Stark St.	West line of Elm.	6
Stark St.	East line of Canal.	6
State Industrial School, Girls' School	West line of North River Rd.	6
State St.	South of Granite in front of boiler house.	6
State St.	South line of Granite.	6
State St.	North line of Granite.	6
State St.	North of south line of Central.	6
State St.	South line of Baker.	6
Stevens	West line of Main.	6
Sullivan St.	East line of Cartier.	4
Sullivan St.	West line of Bartlett.	6
Sullivan St.	West line of Thornton.	6
Sullivan St.	South line of Sullivan.	6
Summer St.	East line of Belmont.	6
Summer St.	West line of Belmont.	6
Summer St.	East line of Wilson.	6
Summer St.	East line of Beech.	6
Summer St.	West line of Beech.	6
Sylvester St.	West of west line of Bismarck.	6
Sylvester St.	North line of Dickey.	6
Taggart St.	South line of Goffstown Rd.	8
Taylor St.	North line of Vinton.	6
Taylor St.	North of Howe.	6
Taylor St.	South line of Somerville.	6
Taylor St.	North line of Somerville.	6
Taylor St.	South line of Young.	6
Taylor St.	North line of Young.	6
Taylor St.	South line of Valley.	6
Taylor St.	North line of Valley.	6
Thayer St.	East line of River Rd.	6
Theophile St.	East line of Mast Rd.	6
Third St.	North line of Ferry.	6
Third St.	South line of Ferry.	6
Third St.	South line of Walker.	4
Third St.	South line of Cleveland.	8
Third St.	On blow-off in river.	4
Thornton St.	North line of Putnam.	6
Thornton St.	South line of Putnam.	6
Tilton St.	North line of Milford.	4
Titus Ave.	West of east line of Calef Rd.	8
Titus Ave.	West of Union.	8
Titus Ave.	West line of Beech.	6
Trenton St.	West line of Union.	8
Trenton St.	East line of Chestnut.	8
Turner St.	North line of Granite.	8
Turner St.	South line of School.	8
Turner St.	2 ft. south of north line of Perry Lane.	8
Union St.	South line of Shasta.	6
Union St.	On fire service to Tilton box factory.	4
Union St.	South line of Silver.	6
Union St.	South line of Hayward.	6
Union St.	North line of Concord.	4
Union St.	South line of Lowell.	4
Union St.	North line of Lowell.	6
Union St.	South of south line of Bridge.	6
Union St.	South line of Brook.	6
Union St.	North line of Blodget.	6

## LOCATION OF GATES ON MAINS.—Continued.

STREET.	LOCATION.	SIZE (inches).
Union St.	North of Sagamore.....	6
Union St.	South line of Salmon.....	6
Union St.	South line of North.....	6
Union St.	North line of North.....	6
Union St.	South line of Webster.....	6
Union St.	North of Ray brook.....	6
Union St.	South line of Clarke.....	6
Union St.	North line of Clarke.....	8
Union St.	North line of Carpenter.....	8
Union St.	North line of Arah.....	8
Union St.	Near Eakett's house.....	8
Union St.	South line of River Rd.....	8
Valley St.	East line of Elm.....	12
Valley St.	On hydrant branch at Willow.....	6
Valley St.	On hydrant branch at Beech.....	6
Valley St.	West of west line of Beech.....	12
Valley St.	On service to Textile Field.....	4
Valley St.	On hydrant branch at Wilson.....	6
Valley St.	West line of Wilson.....	14
Valley St.	On hydrant branch at Belmont.....	6
Valley St.	West line of Cypress.....	20
Valley St.	On hydrant branch at Jewett.....	6
Valley St.	On hydrant branch at Mason.....	6
Valley St.	On blow-off at Mason.....	6
Valley St., West	West line of Elm.....	6
Victoria St.	West line of Davis.....	8
Vine St.	North line of Amherst.....	4
Vine St.	South line of Concord.....	4
Vinton St.	East line of Willow.....	6
Vinton St.	East line of Lincoln.....	6
Vinton St.	East line of Taylor.....	6
Walker St.	East of west line of Second.....	6
Walker St.	East line of Main.....	6
Walnut St.	North line of Amherst.....	4
Walnut St.	South line of Lowell.....	6
Walnut St.	North line of Lowell.....	6
Walnut St.	South of south line of Bridge.....	6
Walnut St.	North line of Bridge.....	4
Walnut St.	South line of Pearl.....	4
Walnut St.	17 ft. south of north line of Harrison (Tap).....	2
Walnut St.	South line of Blodget.....	4
Walnut St.	North line of Blodget.....	6
Walnut St.	South line of North.....	6
Walnut St.	North line of North.....	6
Walnut St.	South line of Webster.....	6
Walnut St.	North line of Webster.....	6
Ward St.	West line of North River Rd.....	6
Warner St.	North line of Mast.....	6
Warner St.	South line of Wilkins.....	6
Washington St.	East line of Elm.....	4
Washington St.	West line of Birch.....	4
Water St.	West line of Elm.....	6
Water St.	East line of Canal.....	6
Wayland Ave.	East line of Mammoth Rd.....	8
Wayland Ave.	West line of Revere.....	6
Wayne St.	West line of Main.....	6
Wayne St.	East line of Dubuque.....	6
Webster St.	16 ft. west of east line of Elm.....	6
Webster St.	West line of Pine.....	6
Webster St.	West line of Union.....	6
Webster St.	West line of Beech.....	6
Webster St.	West line of Smyth Rd.....	6
Webster St., West	16 ft. east of west line of Elm.....	6
Webster St., West	East line of River Rd.....	6
Webster St., West	West of west line of River Rd.....	6
Welch Ave.	West line of Calef Rd.....	4
Wellington Ave.	East line of Mammoth Rd.....	6

LOCATION OF GATES ON MAINS.—*Concluded.*

STREET.	LOCATION.	SIZE (inches).
Wellington Ave. ....	East of Bridge St. Ext. near hydrant....	6
West St. ....	North line of Douglas.....	6
West St. ....	South of south line of Douglas.....	4
West St. ....	South of south line of Granite.....	4
Westland Ave. ....	West line of Brown Ave.....	6
Weston St. ....	South line of Lowell.....	6
Weston St. ....	North line of Lowell.....	6
Weston St. ....	South line of Bridge.....	6
Wheeler St. ....	South line of Hancock.....	4
Wilkins St. ....	East of east line of Highland Ave.....	6
Wilkins St. ....	East line of Rockland Ave.....	6
Williams St. ....	North line of Milford.....	6
Willow St. ....	South line of Valley.....	4
Willow St. ....	North line of Hayward.....	4
Willow St. ....	South line of Hayward.....	8
Willow St. ....	Opposite Cohas Shoe shop.....	8
Willow St. ....	On fire service to Cohas Shoe shop.....	6
Willow St. ....	On line of fence north of Auger Ave....	6
Willow St. ....	At Pine St.....	6
Willow St. ....	North line of Baker.....	8
Willow St. ....	East line of Beech.....	8
Willow St. ....	On hydrant branch at Maple.....	6
Willow St. ....	North line of Lingard.....	8
Willow St. ....	South line of Lingard.....	8
Willow St. ....	South of driving park stable.....	8
Willow St. ....	South of Laxton Ave.....	8
Wilson St. ....	North line of Clay.....	10
Wilson St. ....	North line of Somerville.....	10
Wilson St. ....	North line of Silver.....	10
Wilson St. ....	South line of Valley.....	10
Wilson St. ....	North line of Valley.....	10
Wilson St. ....	On fire service to Silk mill.....	6
Wilson St. ....	North line of Summer.....	10
Wilson St. ....	North of south line of Lake Ave.....	10
Wilson St. ....	South of north line of Lake Ave.....	10
Wilson St. ....	North line of Lake Ave.....	10
Wilson St. ....	On hydrant at Lake Ave.....	6
Wilson St. ....	North of north line of Laurel.....	10
Wilson St. ....	South line of Hanover.....	10
Wilton St. ....	East line of Cartier.....	6
Winter St. ....	West of west line of Main.....	6
Winter St. ....	East of east line of Granite.....	6
Woodbine Ave. ....	North line of Candia Rd.....	6
Woodbury St. ....	East of South Main.....	6
Woodlawn Ave. ....	North line of Londonderry Rd.....	6
Woodlawn Ave. ....	North of Fitzgerald's house.....	6
Young St. ....	North line of Somerville.....	6
Young St. ....	East line of Jewett.....	6
Young St. ....	East line of Cypress.....	6
Youville St. ....	North line of Amory.....	6
Youville St. ....	South line of Kelley.....	6
Youville St. ....	North line of Kelley.....	6

DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1913.

SIZE OF PIPE	CAST-IRON PIPE	CEMENT-LINED PIPE	GATES
24-inch	6,937 feet	.....	3
20-inch	24,952 feet	12,203 feet	15
14-inch	16,245 feet	.....	21
12-inch	48,510 feet	.....	57
10-inch	50,503 feet	.....	53
8-inch	124,729 feet	.....	157
6-inch	406,836 feet	57 feet	936
4-inch	21,371 feet	.....	87
	700,083 feet	12,260 feet	1,329

Cast-iron pipe .....	700,083 feet
Cement-lined pipe .....	12,260 feet
Total length of pipe.....	<u>712,343 feet</u>
Equal to.....	134 913/1000 miles
Total number of gates .....	1,329
Total number of air valves .....	12
Total number of hydrants .....	958

Location and Pressure of Water at Hydrants.

A, corner South Main.....	73 lbs.
A, between South Main and B.....	73
A, corner B.....	70
Adams, west corner North Main .....	69
Adams, west corner Notre Dame avenue.....	68
Alfred, corner Amherst.....	45
Allen, corner South Main.....	80
Alsace, corner Bremer.....	106
Amherst, corner Elm .....	62
Amherst corner Vine .....	64
Amherst, corner Chestnut .....	63
Amherst, corner Pine .....	58
Amherst, corner Union .....	53
Amherst, corner Walnut .....	54
Amherst, corner Beech .....	54

Amherst, corner Maple .....	54
Amherst, corner Lincoln .....	47
Amherst, corner Ashland .....	38
Amherst, corner Hall .....	85
Amherst, corner Belmont .....	72
Amherst corner Beacon .....	63
Amory, opposite No. 21.....	62
Amory, corner Main .....	128
Amory, corner Notre Dame .....	108
Amory, corner Dubuque .....	105
Amory, corner Rimmon .....	105
Amory, corner Hevey .....	105
Amory, corner Montgomery .....	105
Amory, corner Alsace .....	100
Amory, corner Cumberland .....	100
Amory, corner Morgan .....	100
Amoskeag, corner Taggart .....	103
Appleton, corner Elm .....	108
Appleton, corner Chestnut .....	107
Appleton, corner Adams .....	107
Appleton, corner Union .....	107
Arah, by Gagnon's house .....	60
Arah, by Rogers' house .....	67
Arlington, corner Nashua .....	103
Arlington, corner Warren .....	92
Arlington, corner Ashland .....	85
Arlington, corner Morrison .....	85
Ash, between Bridge and Lowell .....	48
Ash, corner Salmon .....	95
Auburn, corner Canal .....	77
Auburn, corner Franklin .....	71
Auburn, corner Elm, west side .....	68
Auburn, corner Elm, east side .....	68
Auburn, between Elm and Chestnut .....	66
Auburn, corner Chestnut .....	62
Auburn, corner Pine .....	64
Auburn, corner Union .....	64
Auburn, corner Beech .....	60
Auburn, corner Maple .....	54
Auburn, corner Wilson .....	110
Auburn, corner Hall .....	110
Auburn, corner Belmont .....	108
Avon, corner Ingalls .....	45
Avon, near Dickey .....	44
Baker, corner Brown avenue .....	65
Baker, corner Elm .....	60



Baker, corner Brown avenue and Elm .....	61
Baker, corner Calef road .....	63
Baker, corner Willow .....	55
Bank, corner Huntress .....	75
Bartlett, corner Sullivan .....	60
Bartlett corner Putnam .....	61
Bartlett, corner Amory .....	61
Bath, corner Turner .....	31
Bath, corner Second .....	83
Bay, corner Clarke .....	105
Bay, corner Carpenter .....	105
Beacon, corner Merrimack .....	83
Bedford, corner Central .....	77
Bedford, between Central and Granite .....	77
Bedford, corner Granite .....	77
Beech, corner Willow .....	122
Beech, by Portsmouth Railroad .....	122
Beech, corner Lake avenue .....	57
Beech, between Lowell and Bridge .....	50
Beech, corner North .....	99
Beech, corner Salmon .....	97
South Beech, north of Gold .....	80
South Beech, by Young's .....	90
South Beech, corner Norfolk .....	95
South Beech, corner Mystic .....	110
South Beech, corner Mitchell .....	120
South Beech, by George Young's .....	122
Bell, corner Pine .....	59
Bell, corner Union .....	60
Bell, corner Wilson .....	108
Bell, between Wilson and Hall .....	108
Bell, corner Hall .....	107
Belmont, corner Clay .....	80
Belmont, corner Somerville .....	83
Belmont, corner Silver .....	80
Belmont, corner Harvard .....	80
Belmont, north of Hayward .....	95
Belmont, at No. 344 .....	104
Belmont, corner Summer .....	104
Belmont, corner Mead .....	80
Bennington, corner Main .....	64
Birch, corner Lowell .....	61
Birch, corner Washington .....	59
Bismarck, corner Charlestown .....	44
Blaine, corner Second .....	83
Blaine, by Cleveland .....	87

Blaine, corner South Main .....	88
Blodget and Elm back street .....	110
Blodget, corner Chestnut .....	105
Blodget, corner Pine .....	104
Blodget, corner Union .....	98
Blodget, corner Beech .....	95
Blodget, corner Ash .....	100
Blodget, corner Maple .....	103
Blodget, corner Russell .....	85
Boutwell, north end of street .....	100
Boutwell, corner Bremer .....	100
Bowman, corner Bowman Place .....	71
Boynton, No. 101 .....	74
Boynton, by No. 145 .....	74
Boynton, north of Erie .....	68
Boynton, corner Grant .....	47
Boynton, corner Glenwood .....	46
Boynton, corner Sheridan .....	47
Bremer, corner Coolidge avenue .....	110
Bridge, corner Canal .....	76
Bridge, corner Boyden .....	66
Bridge, corner Elm, west .....	60
Bridge, corner Elm, east .....	60
Bridge, near Birch .....	58
Bridge, corner Chestnut .....	49
Bridge, corner Union .....	50
Bridge, corner Walnut .....	47
Bridge, corner Beech .....	45
Bridge, corner Ash .....	45
Bridge, corner Maple .....	43
Bridge, at Nashua .....	107
Bridge, corner Russell .....	107
Bridge, corner Linden .....	97
Bridge, corner Ashland .....	92
Bridge, corner Hall .....	75
Bridge, corner Belmont .....	68
Bridge, corner Beacon .....	62
Bridge, corner Weston .....	51
Bridge, corner Highland .....	42
Bridge, corner Mammoth road .....	49
Brook, corner Canal .....	76
Brook, corner Elm .....	52
Brook, corner Elm back street .....	50
Brook, corner Chestnut .....	50
Brook, corner Pine .....	46
Brook, corner Union .....	45

Brook, corner Beech .....	39
Brook, corner Ash .....	100
Brook, corner Oak .....	86
Brown avenue, corner Elm .....	66
Brown avenue, by Tannery .....	68
Brown avenue, by No. 445 .....	56
Brown avenue, corner Westland avenue .....	50
Brown avenue, by No. 556 .....	45
Brown avenue, by No. 1790 .....	61
Brown avenue, by Colby barn .....	85
Brown avenue, by No. 2626 .....	89
Brown avenue, by Pine Island Park .....	86
Brown avenue, by No. 2849 .....	86
Brown avenue, north of No. 2956 .....	83
Brown avenue, north of No. 3022 .....	90
Brown avenue, south of School .....	83
Byron, by No. 91 .....	64
Byron, corner Josselyn .....	75
C, corner Boynton .....	74
C, corner B .....	74
Calef road and South Elm .....	63
Calef road, by Clarke farm house .....	44
Calef road, corner Mystic .....	46
Calef road, by No. 623 .....	42
Calef road, corner Brown avenue .....	50
Canal, corner Depot .....	75
Canal, by Locomotive Works .....	78
Canal, corner Pennacook .....	61
Candia road, by No. 42 .....	83
Candia road, corner Cody .....	68
Candia road, by No. 725 .....	72
Candia road, by No. 991 .....	72
Candia road, at Fletcher's Crossing .....	80
Candia road, by Smith's Corner .....	70
Candia road, by Farmer's residence .....	70
Candia road, by Cram's residence .....	75
Candia road, Proctor's residence .....	75
Candia road, by schoolhouse .....	80
Candia road, corner Groveland avenue .....	90
Candia road, on line between Fellows and Sanborn.....	88
Candia road, near Pavilion .....	87
Canton, corner Auburn .....	78
Carpenter, corner Elm .....	90
Carpenter, corner Ray .....	90
Carroll, by No. 57 .....	62
Cartier, corner Sullivan .....	105

Cartier, corner Putnam .....	105
Cedar, corner Canal .....	77
Cedar, corner Elm, west side .....	68
Cedar, corner Elm, east side .....	68
Cedar, between Elm and Chestnut .....	66
Cedar, corner Chestnut .....	58
Cedar, corner Pine .....	62
Cedar, corner Union .....	62
Cedar, corner Beech .....	52
Cedar, corner Maple .....	52
Cedar, corner Lincoln .....	51
Cedar, corner Wilson .....	120
Cedar, corner Hall .....	120
Central, corner Canal .....	78
Central, corner Franklin .....	66
Central, corner Elm, west side .....	67
Central, corner Elm, east side .....	67
Central, between Elm and Chestnut .....	65
Central, corner Chestnut .....	63
Central, corner Pine .....	60
Central, corner Union .....	60
Central, corner Beech .....	53
Central, corner Maple .....	50
Central, corner Lincoln .....	50
Central, between Lincoln and Wilson .....	46
Central, corner Wilson .....	46
Central, corner Hall .....	105
Central, corner Belmont .....	87
Central, corner Milton .....	78
Central, corner Beacon .....	74
Central, corner Cass .....	90
Charlestown avenue, corner Rochelle .....	58
Chase avenue, between Hayes and Hospital avenues.....	38
Chestnut, corner Lowell .....	55
Chestnut, foot of High .....	50
Chestnut, corner Pearl .....	49
Chestnut, corner Orange .....	48
Chestnut, corner Myrtle .....	48
Chestnut, corner Prospect .....	51
Chestnut, corner Webster .....	105
Chestnut, by No. 859 .....	108
Cilley road, corner Taylor .....	65
Clarke, corner Elm .....	104
Clarke, corner Chestnut .....	105
Clarke, corner Adams .....	105
Clarke, corner Union .....	101
Clay, corner Lincoln .....	108

Clay, corner Wilson .....	90
Clay, corner Hall .....	80
Clay, corner Cypress .....	81
Clay, corner Jewett .....	83
Clement, corner Dickey .....	35
Cleveland, corner Second .....	83
Clinton, corner South Main .....	77
Clinton, corner Dover .....	70
Cohas avenue, at Reservoir .....	08
Cohas avenue, at Peck's house .....	13
Cohas avenue, at pumping station .....	61
Columbus street .....	105
Conant, corner Main .....	70
Conant, corner Cartier .....	68
Conant, corner Dubuque .....	68
Conant, corner Rimmon .....	68
Conant, corner Montgomery .....	67
Concord, corner Elm .....	64
Concord, corner Vine .....	63
Concord, corner Chestnut .....	58
Concord, corner Union .....	52
Concord; corner Walnut .....	50
Concord, corner Beech .....	51
Concord, corner Ash .....	51
Concord, corner Maple .....	50
Concord, opposite No. 276 .....	44
Concord, corner Dutton .....	41
Concord, corner Ashland .....	39
Concord, corner Hall .....	80
Concord, corner Belmont .....	72
Concord, corner Beacon .....	55
Concord, corner Weston .....	38
Coolidge avenue, near No. 304 .....	115
Coolidge avenue, corner Rimmon .....	113
Corning road, by Page's house .....	63
Corning road, corner Derry road .....	60
Cove, corner Elm .....	72
Cove, by Gas Works .....	74
Crown, corner Park avenue .....	110
Cumberland, corner Monitor .....	98
Cypress, corner Vinton .....	70
Cypress, corner Hayward .....	25
Cypress, by Kimball's shop .....	27
Cypress, corner Cedar .....	95
Dartmouth, between Goffe and Woodbury .....	85
Dean, corner Elm .....	57

Dean, between Elm and Canal .....	61
Dean, corner Canal .....	75
Dearborn, north of Taylor .....	35
Delaware avenue, corner Hanover .....	74
Depot, by car barn .....	69
Depot, corner Elm .....	64
Derry road, by Page's .....	64
Derry road, by Menter brook .....	62
Dickey road, by Dunbar .....	61
Dickey road, corner Cohas avenue .....	61
Dickey street, corner Alpine .....	30
Dickey street, corner Whittier .....	40
Dix, corner Maple .....	115
Dix, corner Lincoln .....	105
Dix, corner Wilson .....	90
Dix, corner Hall .....	80
Donahue, corner Glenwood avenue .....	47
Donald, by No. 85 .....	63
Donald, by Middle gate, St. Joseph's cemetery .....	38
Douglas, corner Turner .....	83
Douglas, between Turner and Main .....	78
Douglas, west of Main .....	67
Douglas, corner West .....	69
Douglas, corner Barr .....	69
Douglas, corner Green .....	68
Douglas, corner Quincy .....	68
Dubuque, corner Putnam .....	105
Dunbarton road, by No. 186 .....	127
East High, corner South .....	48
East High, corner Malvern .....	45
East High, corner Ashland .....	30
East High, corner Hall .....	75
East High, corner Belmont .....	68
East High, corner Beacon .....	62
East High, corner Weston .....	51
Elm, south of Baker .....	60
Elm, by Portsmouth Railroad .....	72
Elm, corner Valley .....	72
Elm, corner Grove .....	70
Elm, corner Green .....	70
Elm, corner Summer .....	70
Elm, corner Dean avenue .....	63
Elm, corner Kidder court .....	61
Elm, corner of Salmon street .....	108
Elm, corner Thayer .....	105
Elm, corner Trenton .....	83

Elm, corner Rowell .....	85
Erie, by No. 51 .....	74
Essex, corner Amory .....	105
Essex, corner Monitor .....	105
Falls avenue, corner Falls road .....	44
Falls avenue, at No. 46 .....	44
Falls road, corner Massabesic .....	43
Ferry, east of South Main .....	77
Fibre, corner Front .....	129
Force, Main High Service reservoir .....	10
Force, Main by Turner's house .....	45
Forest, by No. 164 .....	45
Franklin, corner Middle .....	64
Frederick, corner Second .....	86
Front, north end of Eddy road .....	79
Front, at schoolhouse .....	125
Front, corner Goffstown road .....	125
Front, No. 298 .....	125
Front, by No. 411 .....	130
Front, corner Dunbarton road .....	130
Garmon, corner Amherst .....	68
George, between Charlestown avenue and Milford.....	58
George, corner Charlestown avenue .....	58
Gate, corner Cartier .....	68
Gate, corner Rimmon .....	68
Gertrude, corner Amherst .....	65
Gilford, corner Oneida .....	68
Glendale avenue, corner Jewett .....	82
Glenwood, avenue east, Derryfield shoe shop .....	88
Glenwood avenue, corner Highland Park avenue.....	75
Glenwood avenue, corner Lovering .....	70
Goffstown road, at No. 94 .....	102
Goffstown road, near No. 165 .....	103
Goffstown road, near 251 .....	100
Goffstown road, by Stevens' burned house.....	98
Goffstown road, by No. 412 .....	105
Gold, by Brown's house .....	35
Granite, corner Elm .....	64
Granite, corner Franklin .....	66
Granite, corner Canal .....	75
Granite, by Bridge, east side .....	86
Granite, corner Turner .....	83
Granite, corner Second .....	80
Granite, corner Main, east corner .....	76
Granite, corner Main, west corner .....	74
Granite, corner Dover .....	65

Granite, corner West .....	66
Granite, corner Barr .....	67
Granite, corner Green .....	66
Granite, corner Quincy .....	70
Green, corner Pine .....	62
Green, corner Union .....	59
Green, corner Wilson .....	108
Green, corner Hall .....	90
Grove, corner Pine .....	62
Grove, corner Union .....	60
Grove, corner Beech .....	60
Grove, corner Wilson .....	108
Grove, corner Hall .....	108
Grove, corner Belmont .....	104
Grove, at No. 759 .....	39
Hall, corner Cilley road .....	65
Hall, near Valley .....	100
Hall, corner Mead .....	80
Hancock, corner Brown avenue .....	64
Hancock, by Greaney's house .....	70
Hancock, by brewery .....	81
Hancock, west, corner McNeil .....	91
Hancock, west, corner Second .....	86
Hancock, west, corner Dartmouth .....	81
Hanover, corner Elm .....	63
Hanover, at No. 46 .....	62
Hanover, corner Chestnut .....	59
Hanover, corner Pine .....	58
Hanover, corner Union .....	55
Hanover, corner Beech .....	51
Hanover, corner Maple .....	48
Hanover, corner Lincoln .....	44
Hanover, corner Ashland .....	37
Hanover, corner Hall .....	88
Hanover, corner Belmont .....	75
Hanover, corner Beacon .....	65
Hanover, corner Hubbard .....	63
Hanover, by No. 569 .....	62
Hanover, corner Hilton .....	65
Hanover, corner Grant .....	70
Hanover, corner Mammoth road .....	70
Hanover, corner Lake avenue .....	70
Hanover, by No. 1150 .....	75
Hanover, by No. 1230 .....	75
Harrison, corner Elm .....	52
Harrison, between Elm and Chestnut .....	52



Harrison, corner Chestnut .....	51
Harrison, corner Pine .....	51
Harrison, corner Union .....	44
Harrison, corner Beech .....	40
Harrison, corner Maple .....	94
Harrison, corner Oak .....	87
Harrison, corner Russell .....	83
Harrison, corner Hall .....	75
Harrison, corner Belmont .....	75
Harvard, corner Lincoln .....	50
Harvard, corner Wilson .....	95
Harvard, corner Hall .....	87
Hayes avenue, corner Chase .....	44
Hayward, corner Willow .....	59
Hayward, corner Pine .....	59
Hayward, corner Union .....	59
Hayward, corner Beech .....	59
Hayward, corner Maple .....	50
Hayward, corner Lincoln .....	51
Hayward, corner pipe yard .....	100
Hayward, corner Wilson .....	95
Hayward, corner Hall .....	90
Hayward, between Belmont and Taylor .....	80
Hayward, corner Taylor .....	80
Hayward, corner Jewett .....	80
Hayward, corner Riley avenue .....	87
Hayward, corner Porter .....	92
Head, north end .....	88
Head, foot of hill .....	88
Henrietta, corner Edmond .....	34
Hevey, corner Conant .....	67
Hevey, corner Wayne .....	95
High, East, corner Highland .....	42
High power station force main.....	110
Highland avenue, corner Fogg avenue .....	39
Highland street, corner Hanover .....	63
Highland street, corner Amherst .....	43
Highland Park avenue, corner Oakland .....	70
Hiram, between Cleveland and Blaine .....	83
Hollis, corner Canal .....	72
Hollis, at Locomotive Works office .....	67
Hollis, corner Elm .....	60
Holly avenue, corner Belmont .....	65
Holly avenue, corner Taylor .....	65
Holly avenue, corner Cypress .....	71
Hospital avenue, corner Chase avenue .....	38

Howe, corner Maple .....	115
Howe, corner Lincoln .....	106
Howe, corner Wilson .....	88
Howe, corner Hall .....	80
Hubbard, corner Amherst .....	55
Hudson, corner Knowlton .....	92
Jewett, corner Massabesic .....	31
Jewett, corner Young .....	82
Jewett, corner Clay .....	82
J. Hall, road, south Portsmouth Railroad .....	85
J. Hall road, corner Nelson .....	75
J. Hall road, corner Auburn .....	69
Johnson, corner Knowlton .....	90
Joliette, corner Amory .....	105
Joliette, corner Bremer .....	107
Josselyn formerly, now in McElwain factory yard.....	75
Kearsarge, corner Monitor .....	100
Kelley, corner Notre Dame .....	112
Kelley, corner Cartier .....	112
Kelley, corner Dubuque .....	108
Kelley, corner Rimmon .....	101
Kelley, corner Hevey .....	105
Kelley, corner Joliette .....	110
Kelley, corner Alsace .....	110
Kelley, corner Montgomery .....	110
Kelley, corner Boutwell .....	110
Kelley, corner Morgan .....	105
Kennedy street .....	64
Kidder, corner Elm .....	65
Kidder, between Elm and Canal .....	67
Kidder, corner Canal .....	76
Lafayette, corner Kelley .....	107
Lake avenue, at No. 38 .....	66
Lake avenue, corner Chestnut .....	64
Lake avenue, corner Union .....	59
Lake avenue, corner Maple .....	51
Lake avenue, corner Lincoln .....	50
Lake avenue, corner Wilson .....	105
Lake avenue, corner Hall .....	105
Lake avenue, corner Milton .....	100
Lake avenue, corner Cass .....	90
Lake avenue, corner Canton .....	85
Lake avenue, corner Kenney avenue .....	79
Lake avenue, corner J. Hall road .....	73 lbs.
Lake avenue, corner Gertrude .....	82
Lake Shore road, at brook on Foree main.....	108

Lamprey, near Groux house .....	39
Langdon, corner Canal .....	77
Langdon, corner Elm .....	55
Laurel, corner Chestnut .....	62
Laurel, corner Pine .....	59
Laurel, corner Union .....	56
Laurel, corner Beech .....	51
Laurel, corner Maple .....	48
Laurel, corner Lincoln .....	44
Laurel, between Lincoln and Wilson .....	44
Laurel, corner Wilson .....	42
Laurel, corner Hall .....	105
Laurel, corner Milton .....	78
Laurel, corner Belmont .....	98
Laurel, corner Beacon .....	74
Laurel, at No. 437 .....	78
Laval, corner Kelley .....	105
Laval, corner Bremer .....	105
Laval, at north end of street .....	106
Liberty, corner North .....	106
Lingard, corner Willow .....	120
Londonderry road, at Chapel .....	53
Londonderry road, corner Woodlawn .....	50
Londonderry road at Dobbins' .....	48
Londonderry road, at Olson's .....	48
Londonderry road, at Turcotte's .....	48
Londonderry road, at Roy's .....	49
Longwood avenue, corner Mammoth road .....	83
Longwood avenue, corner Revere .....	83
Lowell, corner Elm .....	58
Lowell, corner Beech .....	50
Lowell, corner South .....	46
Lowell, at No. 267 .....	40
Lowell, corner Malvern .....	39
Lowell, corner Ashland .....	34
Lowell, corner Hall .....	78
Lowell, corner Belmont .....	65
Lowell, corner Beacon .....	54
Lowell, corner Weston .....	40
Lowell, corner Highland .....	35
Main, at 429 .....	77
Main, South, corner Hancock .....	73
Main, South, by No. 500 .....	59
Main, South, corner Harvell .....	79
Main, South, corner Erie .....	79
Main, South, at Woodbury's pond .....	90

Mammoth road, corner Mooresville road .....	45
Mammoth road, by Garland's .....	39
Mammoth road, by Kimball's .....	23
Mammoth road, by Horton's .....	08
Mammoth road, by Mercy Home .....	13
Mammoth road, south City Farm .....	55
Mammoth road, at City Farm .....	53
Mammoth road, between Bridge and Old Bridge.....	49
Mammoth road, corner Old Bridge .....	52
Manchester, corner Elm .....	64
Manchester, by No. 58 .....	63
Manchester, corner Chestnut .....	60
Manchester, corner Pine .....	59
Manchester, corner Union .....	54
Manchester, corner Beech .....	51
Manchester, corner Maple .....	48
Manchester, corner Lincoln .....	42
Manchester, corner Wilson .....	41
Manchester, by Hall .....	97
Manchester, corner Belmont .....	84
Manchester, corner Milton .....	75
Maple, corner East High .....	44
Maple, by Flint's woodyard .....	51
Marion, corner McGregor .....	62
Marion, corner Main .....	60
Market, corner Elm .....	63
Market, between Elm and Canal .....	68
Market, corner Canal .....	76
Maryland avenue, corner London .....	70
Mason, corner Rimmon .....	115
Mast road, by No. 130 .....	55
Mast road, by No. 232 .....	52
Mast road, by No. 343 .....	36
Mast road, by No. 369 .....	34
Mast road, by No. 417 .....	35
Mast road, by Reagan's .....	36
Mast road, by Claus's .....	34
Mast street, corner Main .....	82
Mast street, by No. 65 .....	81
Mast street, corner Bowman .....	81
Mast street, east of Riddle .....	77
Mast street, corner Head .....	77
Mast street, by No. 421 .....	60
Mast street, near Lamprey .....	41
Mast street, corner Rockland avenue .....	40
Massabesic, by No. 735 .....	30

Massabesic, corner Mammoth road .....	29
McDuffie, corner Boynton .....	74
McDuffie, corner Huntress .....	74
McGregor, north of Main .....	65
McGregor, south of Wayne .....	65
McGregor, corner Bridge .....	64
Mechanic, corner Elm .....	63
Mechanic, between Elm and Canal .....	68
Mechanic, corner Canal .....	75
Merrill, corner Mason .....	87
Merrimack, West, corner Elm .....	66
Merrimack, West, corner Franklin .....	64
Merrimack, West, between Franklin and Canal .....	66
Merrimack, West, corner Canal .....	74
Merrimack, corner Elm .....	66
Merrimack, by No. 60 .....	63
Merrimack, corner Chestnut .....	60
Merrimack, corner Pine .....	58
Merrimack, corner Union .....	55
Merrimack, corner Beech .....	54
Merrimack, corner Maple .....	49
Merrimack corner Lincoln .....	44
Merrimack, between Lincoln and Wilson .....	44
Merrimack, corner Wilson .....	42
Merrimack, corner Hall .....	100
Merrimack, corner Belmont .....	87
Merrimack, corner Milton .....	83
Merrimack, corner Cass .....	83
Merrimack, corner Hanover .....	84
Middle, between Franklin and Canal .....	63
Middle, corner Canal .....	77
Milford, corner Main .....	73
Milford, corner Bowman .....	73
Milford, corner Tilton .....	70
Milford, east of George .....	58
Milford, corner Donald .....	63
Milford, corner Bismarck .....	60
Mill avenue, by No. 67 .....	95
Mill street, corner Front .....	130
Mill street, by No. 27 .....	130
Monroe, corner Elm .....	108
Myrtle, corner Elm .....	54
Myrtle, by No. 32 .....	52
Myrtle, corner Pine .....	47
Myrtle, corner Union .....	45
Myrtle, corner Walnut .....	45

Myrtle, corner Beech .....	39
Myrtle, corner Ash .....	97
Myrtle, corner Maple .....	97
Myrtle, corner Oak .....	90
Myrtle, corner Russell .....	92
Myrtle, corner Linden .....	85
Myrtle, corner Hall .....	80
Myrtle, corner Belmont .....	80
Mystic avenue, corner Oakland .....	70
Mystic avenue, corner Union .....	105
Nashua, corner Lowell .....	46
Nelson, corner J. Hall road .....	84
Nelson, corner Jones .....	85
Norfolk, by No. 189 .....	95
North, corner River road .....	53
North, corner Elm .....	107
North, corner Bay .....	104
North, corner Chestnut .....	104
North, corner Pine .....	105
Notre Dame, near Wayne .....	115
Old Bridge, corner Mammoth road .....	52
Omega, by No. 88 .....	100
Omega, by Maxwell's barn .....	122
Oneida corner South Main .....	74
Orange, corner Elm .....	54
Orange, corner Clarke avenue .....	54
Orange, corner Chestnut .....	48
Orange, corner Pine .....	48
Orange, corner Union .....	47
Orange, corner Walnut .....	46
Orange, corner Beech .....	44
Orange, corner Ash .....	40
Orange, corner Maple .....	39
Orange, corner Oak .....	96
Orange, corner Russell .....	97
Orange, corner Linden .....	85
Orange, corner Hall .....	85
Orange, corner Belmont .....	75
Orchard avenue, corner Candia road .....	75
Orchard avenue, corner Oakland .....	75
Orchard avenue, corner Glenwood .....	80
Page, corner Candia road .....	68
Page, near Glenwood avenue .....	70
Page, by Eaton Height's shoe shop .....	74
Page, corner Hanover .....	74
Page, south of London .....	70

Palmer, corner River road .....	105
Pearl, corner Elm .....	56
Pearl, corner Clarke avenue .....	55
Pearl, corner Pine .....	48
Pearl, corner Union .....	48
Pearl, corner Walnut .....	44
Pearl, corner Beech .....	43
Pearl, corner Ash .....	43
Pearl, corner Maple .....	41
Pearl, corner Oak .....	100
Pearl, corner Russell .....	98
Pearl, corner Linden .....	87
Pearl, corner Ashland .....	82
Pearl, corner Morrison .....	82
Pearl, corner Belmont .....	82
Pennacook, corner Elm .....	107
Pennacook, corner Chestnut .....	110
Pennacook, corner Pine .....	103
Pennacook, corner Union .....	100
Pennsylvania avenue, corner Hanover .....	74
Pennsylvania avenue, corner Paris .....	73
Pinard, corner Mast road .....	34
Pine, corner Somerville .....	60
Pine, corner Lake avenue .....	60
Pine, corner Concord .....	52
Pine, corner Lowell .....	52
Pine, corner High .....	50
Pine, corner Bridge .....	50
Pleasant, corner Elm .....	65
Pleasant, corner Franklin .....	63
Pleasant, between Franklin and Canal .....	65
Pleasant, corner Canal .....	75
Porter, corner Harvard .....	92
Prescott, corner Wilson .....	97
Prince, corner Boynton .....	75
Prince, corner B .....	77
Prospect, corner Elm .....	54
Prospect, between Elm and Chestnut .....	52
Prospect, corner Pine .....	47
Prospect, corner Union .....	44
Prospect, corner Walnut .....	42
Prospect, corner Beech .....	103
Prospect, corner Ash .....	100
Prospect, corner Maple .....	95
Prospect, corner Oak .....	85
Prospect, corner Russell .....	85

Prospect, corner Linden .....	87
Prospect, corner Hall .....	75
Prospect, corner Belmont .....	75
Putnam, corner Main .....	130
Putnam, corner Notre Dame .....	110
Railroad, near Koehler .....	65
Railroad, at North Weare track .....	65
Ray, north of Ray brook .....	106
Ray, corner Clarke .....	101
Reed, corner Amory .....	102
Riddle, at No. 88 .....	70
Rimmon, corner Bremer .....	107
River road, corner Salmon .....	59
River road, south of Monroe .....	55
River road, corner Clarke .....	49
River road, by No. 564 .....	90
River road, Stark park .....	90
River road, corner Rowell .....	90
River road, by Rowell's house .....	100
River road, by Brown's house .....	105
River road, corner Arizona .....	100
River road, by Stark school .....	90
River road, by Farrell's .....	87
River road, by Preston's .....	80
River road, corner Union .....	75
River road, by Olsen's .....	85
Robie Concrete Co. yard .....	63
Rockland avenue, by Lamprey's .....	40
Rockland avenue, by Batchelder's .....	37
Rosedale avenue, corner Calef road .....	44
Sagamore, corner Chestnut .....	105
Sagamore, corner Pine .....	105
Sagamore, corner Union .....	99
Sagamore, corner Beech .....	95
Sagamore, corner Ash .....	95
Sagamore, corner Maple .....	96
Sagamore, corner Oak .....	96
Sagamore, corner Linden .....	73
Sagamore, corner Smith road .....	76
Salisbury, corner Amherst .....	78
Salmon, corner Bay .....	105
Salmon, corner Chestnut .....	100
Salmon, corner Union .....	100
Savage, corner River road .....	105
Schiller, corner Wentworth .....	98
School, corner Turner .....	86



School, corner Third .....	85
School, corner Main, South .....	80
Schuyler, corner Main .....	68
Second, corner School .....	86
Second, corner Walker .....	82
Second, north of North Weare track .....	83
Second, corner Schiller .....	90
Second, corner Harvell .....	90
Second, south of Harvell .....	90
Second, by No. 852 .....	92
Second, by McQueston's brook .....	95
Second, corner South Main .....	79
Shasta, corner Brown avenue .....	66
Shasta, corner Elm .....	63
Shasta, corner Beech .....	125
Shasta, corner Maple .....	125
Sheridan, corner Donahue .....	47
Sherman, corner Bedel .....	46
Silver, corner Union .....	50
Silver, corner Beech .....	57
Silver, corner Lincoln .....	105
Silver, corner Wilson .....	90
Silver, corner Hall .....	80
Smyth road, between Sagamore and Webster .....	76
Smyth road, 50 feet north from Webster .....	20
Somerville, west of Union .....	50
Somerville, corner Beech .....	56
Somerville, corner Maple .....	122
Somerville, corner Wilson .....	90
Somerville, corner Hall .....	80
Somerville, corner Cypress .....	80
Somerville, corner Jewett .....	83
Somerville, corner Young .....	85
Somerville, corner Porter .....	88
Spring, corner Elm .....	60
Spring, corner Charles .....	70
Spring, corner Canal .....	76
Spruce, corner Elm .....	64
Spruce, between Elm and Chestnut .....	55
Spruce, corner Chestnut .....	58
Spruce, corner Barry avenue .....	56
Spruce, corner Union .....	60
Spruce, corner Beech .....	51
Spruce, corner Maple .....	53
Spruce, corner Lincoln .....	50
Spruce, corner Wilson .....	50
Spruce, corner Belmont .....	110

Spruce, east of Beacon .....	103
Spruce, corner Cypress .....	95
Spruce, corner Canton .....	78
Spruce, corner Kenney avenue .....	74
Stark, corner Elm .....	62
Stark, between Elm and Canal .....	68
Stark, corner Canal .....	76
State, corner Granite .....	75
State, near Payson .....	75
State, near Grove .....	75
Sullivan, corner Main .....	58
Sullivan, corner Notre Dame .....	43
Sullivan, west of Thornton .....	60
Sullivan, corner Sullivan .....	62
Summer, corner Beech .....	60
Summer, corner Wilson .....	108
Summer, corner Hall .....	90
Summer, corner Dearborn .....	40
Taylor, corner Massabesic .....	33
Taylor, corner Young .....	84
Taylor, corner Harvard .....	80
Taylor, corner Somerville .....	80
Taylor, corner Clay .....	75
Taylor, corner Vinton .....	65
Third, corner Ferry .....	83
Thornton, corner Sullivan .....	58
Thornton, corner Putnam .....	58
Thornton, corner Wayne .....	60
Titus, corner Beech .....	100
Titus, by schoolhouse .....	95
Titus, by No. 151 .....	24
Trenton, corner Chestnut .....	83
Trenton, corner Union .....	89
Union, at Portsmouth track .....	58
Union, corner High .....	51
Union, corner North .....	108
Union, by No. 969 .....	106
Union, by No. 1046 .....	98
Union, corner Carpenter .....	90
Union, north of Trenton .....	80
Union, corner Arah .....	45
Union, Eakett's .....	60
Union, Garland's .....	65
Valley, corner Willow .....	67
Valley, corner Pine .....	59
Valley, corner Union .....	59

Valley, corner Beech .....	61
Valley, corner Wilson .....	46
Valley, corner Belmont .....	100
Valley, corner Taylor .....	33
Valley, corner Cypress .....	26
Valley, corner Jewett .....	24
Valley, by No. 1050 .....	27
Vine, at Central fire station .....	64
Vinton, corner Wilson .....	100
Vinton, by Stevens' house .....	65
Walker, corner Turner .....	85
Walker, corner Third .....	80
Walker, corner Fourth .....	80
Walker, corner South Main .....	78
Walnut, corner Lowell .....	50
Walnut, between Lowell and Bridge .....	49
Walnut, corner Sagamore .....	100
Walnut, corner Salmon .....	100
Walnut, corner North .....	108
Walnut, north of Webster .....	108
Ward, corner River road .....	105
Warner, corner Kingston .....	40
Water, corner Elm .....	62
Water between Elm and Canal .....	75
Wayland avenue, corner Revere .....	83
Wayne, corner Main .....	130
Wayne, corner Notre Dame avenue .....	115
Wayne, corner Dubuque .....	105
Webster, by Amoskeag Depot .....	70
Webster, corner River road .....	110
Webster, corner Elm .....	108
Webster, corner Adams .....	105
Webster, corner Union .....	105
Webster, corner Walnut .....	104
Webster, corner Beech .....	104
Wellington avenue .....	80
Wentworth, corner Bell .....	98
West, corner Parker .....	63
Wilkins, corner Highland avenue .....	39
Wilkins, corner Warner .....	39
Wilkins, corner Rockland avenue .....	37
Wilkins, by Dickey's house .....	28
Willow, by Manchester Coal and Ice Co.....	115
Willow, corner Silver .....	59
Willow, corner Auger .....	45
Willow, north of Fair Ground .....	118

Willow, south of Fair Ground .....	115
Willow, by Levasseur's .....	117
Wilton, corner Notre Dame avenue .....	71
Winter, corner Main .....	87
Winter, corner Parker .....	73
Winter, corner Granite .....	71
Woodbine, corner Longwood .....	75
Woodbine, corner Oakland .....	75
Woodland, corner Candia road .....	68
Woodland, corner Oakland avenue .....	70
Woodland, corner Glenwood avenue .....	71
Woodlawn, opposite Theiss .....	48
Woodlawn, opposite Fitzgerald's .....	51
Young, corner Ainsworth avenue .....	75
Young, corner Cypress .....	80
Youville, corner Amory .....	102
Youville, corner Kelley .....	105

**REPORT**  
**OF THE**  
**SUPERINTENDENT OF SCHOOLS**



## SUPERINTENDENT'S REPORT

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*To the School Board, the City Council, and the Citizens of Manchester:*

The following is presented as the sixty-seventh report of the School Department of the city. It is the fifty-eighth report of a superintendent and the fourteenth of the present officer.

The statistics of attendance cover the period from September, 1912, to July, 1913. The record of expenditures covers the calendar year 1913.

### WORK OF THE YEAR.

A review of the progress of the year reveals an increased liberality on the part of the board in the utilization of the school plant for civic purposes, a growth in knowledge amounting to conviction of the necessity for providing means for industrial and vocational training for both the elementary schools and the high school, an appreciation of the indispensability of good health for normal school progress, and the obligation of the city to provide the best physical environment for its pupils, not merely as a matter of justice but as a matter of economy.

The progressive attitude of this body has been shown in its recognition of the fact that a teacher should receive a wage commensurate with the importance of his work, and by its action in raising the wages of elementary and high school teachers. Arrangements have been perfected whereby the admission to the high school of pupils from the parochial schools has been facilitated and systematized. An addition to the Youngsville school has been completed and is now occupied. The teaching force of the high school has been augmented by the addition of four instructors and a trained librarian. Substantial increase to the equipment of the school has also been made.

The Parent-Teacher Association movement has grown in strength and usefulness. The course of study is being liberalized by the recognition of the fact that it is the whole child that goes to school and that hand work and play are legitimate, yes, necessary factors in the development of the child, and should therefore be made a part of the school curriculum. Statistics show a more favorable condition in regard to over-age in the grades and a slight improvement in the matter of retardation.

### OBITUARY.

Once in the year past has the hand of death intervened in school affairs and removed a teacher, loved and respected by her pupils and the community.

Miss Florence H. Moore was born in the city of Manchester and educated in her schools, being graduated from the city high school

in the class of 1895. She entered the city training school for teachers in September, 1897, and was graduated from the same in January, 1899. Immediate election to the second grade of the Straw school followed, and Miss Moore served continuously in that school from that time until the close of the last school year.

She gave to her work freely and abundantly of her vitality, and the close of the year found her exhausted and in need of rest. The loss of her mother at this time, coupled with her arduous endeavors in the schoolroom, proved too much for her constitution, and she gradually sank until the end came in the early morning of October 21. The passing of Miss Moore deprived the city of one of its most skillful teachers. She was sympathetic, discerning, just. Her school was a model of excellence.

#### ATTENDANCE.

There have been enrolled in the public day schools in the city 263 pupils of kindergarten age, 101 pupils in the suburban schools, 5,606 in the graded schools and 709 in the high school, a total of 6,679 for the year. This number, 6,679, is smaller than that for 1912 by 360, but larger than for any other preceding year, and exceeds the registration for 1911 by 376.

The decrease is to be explained by the fact that the six-year age limit for the admission of beginners was first put into operation in September, 1912, and the number of beginners was smaller by about twenty per cent than for the school year beginning in September, 1911. Furthermore the opening of the Sacred Heart parochial school and the enlargement of St. Marie's school caused withdrawals from the public schools.

The average membership and the average daily attendance have been 5,711 and 5,309 respectively. These figures are smaller than for the preceding year by 199 and 160. This condition was predicted in the report of one year ago, when it was observed that the increase for that year was more than four and one half times the normal increase. The report for 1912 said, "Past experience would indicate that the figures for 1913 will be considerably smaller than for 1912." The membership and attendance for the past fall would indicate that the deficiency of the past year has been made good and that the membership and attendance for the present year will be the largest in the history of the schools.

The number of tardinesses in all of the schools was 8,457, a number smaller by 1,858 than for the preceding year. The average number of tardinesses per pupil was 1.4 per cent. The following schools in the order named are deserving of commendation: Chandler, Straw, Amoskeag, Ash-street, Webster-street, Wilson, Highland, Bakersville. Each has averaged less than two tenths of one per cent for the year. The usual table, No. I, shows the relative standing of the different schools.



TABLE I.  
TARDINESSES

SCHOOLS.	Average Membership.	Tardinesses.	Percent.
High.....	667	2,214	1.89
Amoskeag.....	110	64	.16
Ash-street.....	309	183	.16
Bakersville.....	292	196	.18
Brown.....	176	619	.97
Chandler.....	287	64	.06
Franklin-street.....	241	354	.40
Goffe's Falls.....	55	129	.65
Hallsville.....	414	497	.33
Highland.....	55	35	.17
Lincoln-street.....	317	375	.32
Main-street.....	320	320	.27
Maynard.....	278	692	.68
Parker.....	282	392	.38
Pearl-street.....	99	87	.24
Rimmon.....	107	319	.82
Spring-street.....	147	209	.29
Straw.....	264	85	.08
Varney.....	339	521	.41
Webster-street.....	279	177	.17
Wilson.....	365	232	.17
Youngsville.....	73	86	.32
Ungraded.....	76	607	2.21
Kindergartens.....	159	.....	.....
Totals.....	5,711	8,457	.44

CHANGES AND TRANSFERS.

Additions to and changes and transfers among the teachers of the schools have occurred as follows: At the middle of the year Mr. W. S. Ross was secured as an additional teacher for the high school. Mr. Norris D. Blake, Miss Florence E. King and Miss Helen Furness tendered their resignations at the close of the year, and, at the same time, Mr. Allan E. Herrick was made supervisor of penmanship for the city.

To fill these vacancies and to provide additional teachers, the following were selected as instructors in the high school: Miss Jennie F. Currier as head of the commercial department, Miss Josephine C. Daley, Miss Beatrice Tasker, Miss Lillian Sleeper, Mr. Harold E. Cowan and Mr. C. S. McDaniels. During the term just closed, Miss Iva Young has been chosen librarian of the school.

At the Bakersville school, Mrs. Gertrude Bachelder was elected a permanent teacher in February, 1913.

At the Brown school Miss Catherine Haggerty was elected a permanent teacher in February, 1913.

At the Franklin-street school Miss Helen Lyons was granted leave of absence for one year and Miss A. Eva O'Brien, a substitute teacher, was placed in charge of the seventh grade.

At the Hallsville school Miss Ina E. Tuttle resigned and Miss Nellie K. Bates was transferred from the Stark district to fill the vacancy, the vacancy in the Stark district being in turn filled by the election of Miss Sadie G. Hutchinson.

At the Lincoln-street school Miss Frances Farrell tendered her resignation at the close of the year and Miss Anna McDonald was transferred from the Goffe's Falls school to fill the vacancy, the room at the Goffe's Falls school being in turn taken by Miss Mildred Center.

At the Maynard school, Misses Mary K. Connor and May R. Callaghan were elected regular teachers in February, 1913.

At the Spring-street school, Miss Edith M. Sturtevant tendered her resignation as assistant kindergartner and Mrs. Jeannette Watson was elected to the vacancy.

At the Straw school one vacancy has recently occurred through the death of Miss Florence H. Moore. A substitute teacher is in charge of the room.

At the Wilson school Miss L. Helen Haskell resigned at the close of the school year. Miss Mary E. Walker, formerly of the Highland school but during the year past a substitute in the fifth grade of the Varney school, was elected to the vacancy.

With the recent opening of the Youngsville addition, Miss Blanche L. Corning was promoted to the second grade and Miss Sadie G. Hutchinson was transferred from the Stark district to the first grade. Miss Cassie Colby was elected to succeed Miss Hutchinson.

Miss Annie E. Patten was made teacher of sewing solely and Mr. L. C. Ryder was chosen as assistant drawing teacher.

#### ACCOMMODATIONS.

The completion of the addition to the Youngsville school has provided seats for 84 additional pupils, doubling the original capacity of the building. There are in the school at the present time 97 children. All of the seventh grade pupils transferred to the city schools one year ago because of insufficient room in the district

have elected to remain and graduate from the larger schools. These pupils provide their own transportation. Were all of the children in the district in attendance, the number of pupils would be about 112. The membership of the school fluctuates with the change of seasons, being smaller in the cold winter months when certain families move to the city for the winter, and larger in the spring and fall. A percentage of increase during the next two years equivalent to that of the last two years will see 150 pupils in the building.

The Straw kindergarten has been housed in the Straw "Mansion" contiguous to the school building for a full year. The city is paying in rent \$432 annually. This is at the rate of five per cent, or an investment of \$8,640. A suitable building for kindergarten work can be erected for less than that sum. The room occupied by the Chandler kindergarten will soon be needed for grade purposes. I recommend that this board adopt the policy of erecting separate kindergarten buildings, and that it ask of the city council an appropriation to construct a building for the Straw kindergarten.

The Spring-street and Franklin-street buildings are the oldest of those in use for graded schools. Both are defective in ventilation and some rooms of each are poorly lighted. These two schools, as has been recommended in a former report, should be united in one building on a site somewhere between the sites of the present two buildings. To secure this location, a proposition should be made to the Amoskeag Company to reassume the ownership of the lots occupied by these two buildings and in return to give the city a deed of a lot in the vicinity of the public library, upon which to erect a modern sixteen-room school building with baths, gymnasium, open-air and kindergarten rooms.

The report of one year ago discussed the condition of the Bakersville district. All of the rooms are now occupied and the building is filled to good working capacity. It has been necessary to teach three classes in the eighth-grade room. Immediate provision should be made for the future growth of the district.

The Wilson school has been filled to its capacity for more than a year. Nine assistant teachers are employed. The membership of the building is 385.

Pupils of the Chandler school, upon the completion of the work of the sixth grade, are sent to the Lincoln-street or Ash-street school, according as their residences are north or south of Concord street. There is no room at these latter schools for such a transfer of pupils in February next, and a large entering class of beginners will necessitate additional room for the grades at this building.

Two suburban schools, the Mosquito Pond and the Stark district, have been at times overcrowded during the year. There was no means of relief for the first and the work for a portion of the year was carried on under adverse conditions. The Stark school was relieved by a transfer of pupils to the Webster-street school.

Past experience has demonstrated that the school system grows by about one four-room building per year. To keep abreast of the times, every new city government should plan to erect during its term of office at least one new school building. Such a practice should become a fixed policy, and city governments should vie with one another as to which should erect the best building.

#### SALARY INCREASES.

At a meeting held on February 2, 1912, the board adopted a set of rules reported by a special committee appointed to prepare the same. By these rules it was provided that the maximum salary of grade teachers should be \$650 per annum, that of master's assistants \$675 per annum. At the annual election of teachers in June, 1912, the rule became operative and the \$50 increase was received by all teachers entitled to the maximum salary. At the same annual election of teachers, the salary of a male principal was increased from \$1,500 per annum to \$1,800 per annum, the same to be operative January 1, 1913. Upon the receipt of a petition from the female principals for a similar consideration a special committee was appointed to report an equitable plan for the payment of the women principals. No plan was adopted prior to January, 1913, at which time the present members of the school board were sworn into office, when the matter was taken up anew and the whole question of salaries again adjusted as follows:

Of female principals not graduating pupils to the high school, those of two-room buildings at \$800 per annum, those of four-room buildings at \$900 per annum, those of six-room buildings at \$1,100 per annum, those of eight-room buildings at \$1,200 per annum; of principals graduating pupils to the high school, those of two-room buildings at \$900 per annum, those of four-room buildings at \$1,000 per annum, those of six-room buildings at \$1,200 per annum, those of eight-room buildings at \$1,300 per annum, no increase being allowed in either case for a number of rooms between two, four, six and eight. At the same time the salary of female assistants in the high school was fixed at \$850 per annum, the salary of a female head of department at \$1,000 per annum, and the maximum salary of grade teachers was fixed at \$700 per annum, of master's assistants at \$750 per annum. Under a suspension of the rules the above schedule was put into effect as of the date of February 24, 1913. I recommend that the salary of female assistants in the high school be fixed at \$900 per annum.

#### HEALTH.

Seven years the report of this board first discussed and urged systematic medical inspection of the schools of the city. Such an inspection has been in force for three full years.

The report of the school board for 1912 stated that there were in the city 11,348 children with physical defects of a more or less serious nature. The report recommended that an arrangement be made with the hospitals of the city whereby free medical and surgical treatment might be given to such children as were unable otherwise to secure the same. It also recommended the employment of a school nurse. The report for 1910 urged that free dental treatment be provided for certain children. The last report of this body regarded the provision of this treatment as an assured fact. Failure to provide suitable equipment caused the plan to be given up. The report for 1911 recommended that an open-air school be established; that for 1903 summarized the defects of the school buildings in the matter of ventilation. The citation of these facts plainly shows that the board has been alive to the health needs of the schools. At the present time it would appear that an active campaign in the matter of health and school hygiene is about to begin.

The Board of Health and those conversant with the operation of the present system of medical inspection have perhaps been cognizant of its defects to a greater degree than any other citizens. It has, however, been considered a promising plant and deserving of further culture. It has revealed the existence of numerous physical defects. It has prevented epidemics of diphtheria and scarlet fever and has led to the remedying of some defects among the children. Its chief faults have been failure to provide for the following up of cases, infrequency of visits of inspection, and failure to keep individual record cards up to date.

Great credit is due to the Board of Health for what it has accomplished. The work was undertaken at a time when there was no general statute providing for medical inspection, and the Board of Health assumed the task under the general powers given it by law.

The legislature of 1913 passed a general act in relation to medical inspection of schools, in which it is provided that any city, union, special or town school district may adopt the provisions of the act and the same shall then be in force. This has been construed as requiring a referendum vote in the city of Manchester.

The general statutes give to school districts certain powers which may or must be exercised in the general school meeting. The exercise of these powers in the case of the city of Manchester, unless otherwise provided for by the charter, is given in section 1 of chapter XV of the charter to the city council. I quote as follows: "and all powers vested in the several school districts, including the district constituted by this act, shall be vested in said city and exercised by the city councils of said city." It is therefore perfectly feasible for the board of mayor and aldermen to adopt the provisions of the act for the city of Manchester, after which the school board will have the power to control and carry out the medical inspection of its children.

The board was represented at the International Congress of School Hygiene, held in Buffalo in August last, by Mr. Joseph M. McDonough. Mr. McDonough presented a most able report, which by vote of this board is printed as a part of its annual record. (See Appendix I.)

#### NON-ENGLISH SPEAKING CLASSES.

Classes for non-English speaking pupils have been maintained as heretofore in the Maynard, Spring-street and Rimmon buildings. At the mid-year promotions there were 158 in all schools and at the close of the year 132. The number at the present time is 113. Ninety-six of these pupils were advanced to the grades in the different buildings at promotion time. An entire room at the Maynard has begun 5B and 4B work. All the pupils are over-age for their grades. The saving clause in this matter is that they are not restricted to the fourth or fifth grade work, as the case may be, for the entire half year but are instructed according to their capacities. An endeavor is being made to make them familiar with the history of our country and provide a foundation in the common school branches which will be of assistance to them in earning a living.

#### EVENING SCHOOLS.

The city conducted three public evening schools in the Franklin-street, Rimmon and Spring-street school buildings, for a number of years. In the fall of 1910 a fourth building, the Lincoln-street, was opened with schools for both sexes in different rooms.

The attendance in these schools as a whole was largest in the fall of 1909, when 413 were present on every evening. Since that time there has been a steady decline until the attendance for the period of this report has numbered but 250. The average number of pupils per teacher is smaller than ever before, and the quality of instruction should be correspondingly better.

Results obtained do not appear to be commensurate with the effort put forth. The city has had a constant growth in population. Attendance in the schools is irregular. The steady decline in numbers is either an evidence of failure to meet the needs of the pupils, or inasmuch as the greater part of those attending do so for the sake of learning to read and write the English language, it is an evidence that the number of non-English speaking citizens is decreasing. Practically no illiterates attend these schools and very few return for a second year. This would seem to argue that the value of the schools in dollars and cents to the attendants is small. I believe that a partial solution of the evening school problem is in the offering of practical courses, courses that will increase the efficiency of the student in his every day work and result in an increased amount in his pay envelope.

## KINDERGARTENS.

The city has approved of the kindergarten as a desirable agency in the training of its children. Four of these are now supported at the public expense. These four do not serve all sections of the city. The residents of the Rimmon district petitioned this board for a kindergarten in the Rimmon building. An appropriation for the same was not available and it was impossible to grant their request. The southeastern section of the city, served by the Hallsville and Wilson schools, aggregating more than 825 pupils, has no convenient kindergarten. I recommend that this board ask of the city council an appropriation of \$1,000, for the purpose of equipping kindergartens in the Rimmon and Hallsville districts, including the purchase of pianos for the same.

## REPAIRS.

Prior to the creation of the office of superintendent of buildings, the school board directed the repair and upkeep of the school property. The maximum appropriation for this purpose in any one year was \$10,500. The amount appropriated was formerly expended for repairs of all kinds,—plumbing, heating, lighting, grading, concreting, painting, curtains, partitions, closets, etc. The law creating the office of superintendent of buildings has been construed to limit the power of the superintendent to repairs upon buildings alone; furniture, curtains, repair of seats and desks, providing lights, grading, concreting, fence building, flag pole erecting and other such work being outside of his province. The budget for 1912 shows no money available for these latter purposes. In 1913 the entirely inadequate sum of \$500 was appropriated for all such purposes. This amount is not sufficient to pay for the yearly scraping and varnishing of the desks, if the property is not to be allowed to deteriorate.

Several of the school buildings are without flag poles. The erection of these is required by law and the school board is directed to provide the same. The members are individually liable for neglect of this duty.

Mr. C. F. Jack, schoolhouse agent, has secured from the principal of each building a list of the repairs, furniture and improvements desirable for each. This list will be submitted to you in detail.

In consideration of the variety and quantity of work necessary to be done, a large appropriation should be requested of the city council. The sum of \$1,500 is needed for walks, grading and curbing about the Brown and Maynard schools alone. Steel flag poles set in cement should be erected in the yards of those buildings now lacking the same. These poles are purchased by the foot, the cost varying with the height of the pole. An appropriation of \$600 should be requested for this purpose.

In view of all these circumstances, I recommend that the board

ask of the city council an appropriation of \$1,500 for grading, walks and curbing about the Brown and Maynard schools, \$600 for flag poles for the various buildings, and \$3,000 for the purpose of making a portion of the repairs needed upon the school buildings; and that a copy of the requests for repairs from all the schools be provided for each member of the council sub-committee upon schools as well as for the members of the finance committee of the council.

TABLE II.—SHOWING AGES AND GRADES  
ON DECEMBER 5, 1913.

AGES IN YEARS.	Grades.								Special	Totals.
	1	2	3	4	5	6	7	8		
Under 5.....										
5.....	5									5
6.....	450	24		2						476
7.....	<u>236</u>	253	87	7						583
8.....	68	<u>160</u>	219	90	4				3	544
9.....	30	75	<u>178</u>	171	62	7			4	527
10.....	9	30	88	<u>200</u>	152	44	1		8	532
11.....	8	24	64	123	<u>196</u>	125	36	1	6	583
12.....	3	8	43	81	142	<u>161</u>	112	28	9	587
13.....	4	8	22	63	111	129	<u>143</u>	103	19	602
14.....	1	2	17	39	68	83	94	<u>112</u>	34	450
15.....			4	17	20	16	41	78	16	192
16.....		1	1	6	1	4	7	22	14	56
17.....					3	2	1	4		10
18.....										
19.....										
20.....										
Totals.....	814	585	723	799	759	571	435	348	113	5147
Over age.....	123	148	239	329	345	234	143	104		1665
Percent over age.....	15.1	25.2	33.1	41.1	45.4	40.9	32.8	29.8		32.3
.....	455	277	306	270	218	176	149	132		1983
Percent under age.....	55.8	47.3	42.3	33.7	28.7	30.8	31.9	37.9		38.5

2.1% in special classes.



Table No. II shows the number of children of each age in each grade on December 5, 1913. Practically 15 per cent of the first grade children are over age, 25 per cent of the second grade, 33 per cent of the third grade, 41 per cent of the fourth, 45 per cent of the fifth, 41 per cent of the sixth, 33 per cent of the seventh, and 30 per cent of the eighth grade. The showing is a slight improvement over that for 1912, the percentage of over-age children being smaller in every grade except the second. The decrease for all grades is two and one tenth per cent.

A careful canvass of the schools of the city shows that there are in the schools at the present time 187 pupils between the ages of fourteen and sixteen who, were it not for the child labor law, would be at work. The largest number, 55, is found in grade five, 40 are in grade four 24 in grade six, 22 in grade seven, and 29 in special classes.

The Maynard district alone has 46 of these pupils, the Varney and Brown districts each 17, the Rimmon 16, Franklin-street 13, and the Bakersville school 12. The Hallsville and Wilson have 8 each. The remainder are divided in smaller numbers among the other schools of the city.

Experience has shown that the largest proportion of over-age pupils is found in the fifth grade and this holds true of the present compilation. The amendment to the child labor law forbidding the employment of children between the ages of fourteen and sixteen years unless they have completed the elementary school course has not raised the percentage of over-age children so that it exceeds the figures for December, 1912, although it is obvious that there are 187 such pupils in school. Under the conditions of former years, the percentage of reduction would have been four and six tenths. These pupils should be doing some work of a practical nature. Their presence offers a strong argument for the vocational courses advocated in another part of this report.

#### HIGH TECHNICAL VOCATIONAL SCHOOL.

The normal capacity of the present high school building is 650. The number of pupils in the structure at present is 734. These figures speak for themselves. We have no call to present an argument for additional high school accommodations.

The need of more high school room being granted, however, two most important questions confront us, first, what shall be the character of the activities which the new building shall foster; second, what shall be its capacity?

A review of the growth of the present high school may be instructive and of assistance in planning for the future. The present building was first occupied in September, 1897. The membership of the school for 1897 was 290. The opening of the new building caused a

marked increase in attendance and brought into the school 88 new pupils. This is the largest annual increase in the history of the building. The next largest has just occurred, when, at the present time, we have an increase of 67 pupils. The following gives the average membership for each year since 1897, together with the annual increase or decrease.

YEAR.	Membership.	Increase.
1897 .....	290	
1898 .....	378	88
1899 .....	409	31
1900 .....	380	29 loss
1901 .....	379	1 loss
1902 .....	390	11
1903 .....	405	15
1904 .....	401	4 loss
1905 .....	423	22
1906 .....	455	32
1907 .....	483	28
1908 .....	529	46
1909 .....	544	15
1910 .....	589	45
1911 .....	619	30
1912 .....	646	27
1913 .....	667	21
At present .....	734	67

From 1897 to September, 1913, a period of sixteen years and three months, the school has increased by 153 per cent. During the past ten years it has increased over 80 per cent. The opening of the new building was responsible for a large part of the 153 per cent, and accordingly, in estimating for the future, the conservative course will be to consider the situation during the decade just ended, and be guided somewhat by it.

It is unquestionably safe to figure during the next ten years upon an increase equal to that of the last ten. The probability is that the increase will be greater rather than less than 80 per cent, upon the principle that the larger a body the greater its increment of growth. The last statement is supported by the fact that the increase during the first half of the decade was 30 per cent, during the last half 39 per cent.

Assuming 734 as our present basis, an increase of 80 per cent means 1,321 pupils in the high school ten years from the present time, and this with the present high school curriculum. It is plain that another high school building with a capacity of 650, equivalent to that of the present building, will be adequate to the needs of the city for but a short time. Both buildings will be full at the close of a decade. This statement is made in regard to growth with the present high school curriculum in force.

Two or three or more additional factors are to be considered in attempting to estimate the capacity of the new building. First of these is the fact that there is a great loss of pupils who ought to remain a longer time in school and who would do so provided there was presented to them the right kind of exercise for their activities. Second, the present situation in regard to manual training is characterized by unrest, quarters are inadequate, and in the minds of some the school is not vindicating its right to exist. Third, the girls in all of the schools need courses in domestic science. Fourth, the city has done and is doing nothing to render its young folks vocationally fit. It is teaching nothing, if we except commercial studies in the high school, directly practical.

"Public education should provide for the development of vocational purposes based on vocational enlightenment; and it should offer each pupil appropriate training for the vocation of his choice." In other words, it should assist him to find out what he can do best and then teach him to do it.

Let us take up these last few factors somewhat in detail; first, that there is a great loss of pupils who ought to remain longer in school and who under present conditions are industrially unfit when they leave school. Nine hundred and seventy-four pupils have been graduated from the high school in the last ten classes; 1,634 pupils entered the school in these classes; 660 failed to graduate, i. e., were compelled by circumstances to leave school. For every 100 pupils graduated we have lost 67. It is obviously the duty of the city to do as much for the 67 as it does for the 100.

In the last two years, 627 pupils were graduated from the grammar schools; 367 of these have entered the high school; 260 have gone to work. Of the grammar school graduates, for every 100 entering the high school, 70 have left school. As we saw before, for every 100 graduates from the high school 67 dropped out; accordingly, it is a fair inference that for every 100 pupils graduating from the high school 137 have fallen by the wayside.

The truant officers' records show that 1,719 regular employment certificates were issued during the past year. These were about equally divided between the public and the parochial schools. Eight hundred and fifty-nine were then given to the public school pupils. Let us grant that all of the pupils who left the high school and that all of the grammar school graduates who did not enter the high school secured employment certificates. (The report of the high school shows 64 as dropping out during the year, and the promotion lists show that 140 graduates did not enter the high school.) We have then 204 who, we will grant, secured employment certificates. This number deducted from 859 leaves 655 who, being in the elementary schools, left for work. All of the figures above given are conservative and err, if they err at all, on the side of under-statement.

The situation is somewhat as follows: the high school loses 40 per cent of its pupils; of the elementary school graduates, 41 per cent

fail to enter the high school; more than 650 pupils leave the grades every year before completing the elementary course; certainly 900 children leave the public schools yearly for work. This is about 15 per cent of the membership.

This array of facts presents the strongest argument for such a curriculum in the upper grades of the elementary course and such an addition to the high school curriculum as will retain these pupils in school and advance them upon the work of their various vocations. The proposed new school should offer a curriculum quite different from the present school. The new institution should be a technical, and vocational or practical arts school. The 312 students in the commercial course of the present school should be a part of its membership. The transfer of these would leave the present school with 425 pupils, with an opportunity to expand by 225 pupils on classical courses. The new building should, in addition, provide opportunity for vocational instruction along the lines of the industries of the community. For example, there should be space for the teaching of the painting, plumbing, shoemaking, printing trades; there might well be provided a loom and a spinning frame, the construction, assembling, running and care of which should be taught. These are merely illustrative. Ample room should be provided for domestic science courses for the grades. This should include all of the elements of housekeeping and especially a knowledge of food values and care of children. Sewing, the cutting and fitting of garments, the designing of the same, etc., should be taught. It is impossible to estimate the number of pupils which such courses would keep in school, probably some hundreds.

There are at the present time in the seventh and eighth grade rooms 900 boys and girls entitled to manual training and sewing. One half day a week is given to these pursuits. At present there should be provided facilities for 90 boys and girls on each half day. There should be room for expansion to twice that number.

The new building should offer courses as above suggested and have a capacity at its maximum about as follows:

For commercial students .....	650
For technical, vocational, practical arts.....	650
For manual training and domestic science.....	180 half daily

The technical and vocational number is taken from the number of those leaving school in the entire city and comprises but one third of the same. The manual training estimate is double the present number entitled to the same. It appears to me that a building with the possibility of these capacities would meet the needs of the city for from fifteen to twenty years. It should be remembered that this has been figured chiefly upon the public school basis. Any change whereby more parochial school pupils might enter into the plan would of course cause the building to reach the limit of its capacity in a shorter time.



TABLE IV—June, 1913, promotion.

SCHOOLS	No. of beginners January, 1913	1st year	Not advanced	2d year	Not advanced	3d year	Not advanced	4th year	Not advanced	5th year	Not advanced	6th year	Not advanced	7th year	Not advanced	8th year	Not advanced	Total, half year	Total failures	Double promo- tions	Graduated
Amoskeag . . . . .	2	13	3	16	1	13	20	2	12	1	17	6	6	53	6	14	4	111	5	26	14
Ash-street . . . . .	4	18	5	25	1	13	38	3	47	3	48	27	2	15	66	66	308	21	4	48	
Bakersville . . . . .	6	51	5	29	1	36	55	3	33	1	27	28	2	28	28	28	274	12	5	15	
Brown . . . . .	7	21	18	38	2	23	15	1	44	5	26	11	2	11	11	11	169	12	5	11	
Chandler . . . . .	11	44	8	38	2	38	58	2	43	8	45	17	2	17	2	22	288	33	1	3	
Franklin-street . . . . .	4	32	6	34	1	26	25	3	29	3	34	7	3	31	7	22	233	14	3	15	
Goffe's Falls . . . . .	4	19	6	7	1	6	11	1	5	1	4	4	4	4	4	4	233	14	3	15	
Hellsville . . . . .	4	41	10	82	9	51	82	4	58	7	45	7	3	30	3	29	56	15	1	4	
Highland . . . . .	2	8	2	6	4	3	14	3	7	7	4	4	3	11	9	9	418	39	3	29	
Lincoln-street . . . . .	4	26	4	36	4	36	36	4	39	10	40	4	4	63	9	46	322	36	2	4	
Main-street . . . . .	13	43	9	52	3	81	8	8	41	2	40	11	11	11	11	11	308	30	20	44	
Maynard* . . . . .	24	62	14	31	3	22	33	5	35	7	2	2	2	2	2	2	181	31	1	17	
Parker . . . . .	13	39	1	49	8	57	6	45	27	3	36	2	2	18	3	17	288	24	1	17	
Pearl-street . . . . .	5	10	1	19	8	16	27	2	28	1	1	1	1	1	1	1	100	4	1	1	
Rimmon* . . . . .	7	25	5	8	8	25	19	2	10	1	10	1	1	1	1	1	87	8	4	1	
Spring-street* . . . . .	20	27	1	27	7	9	15	1	18	1	18	1	1	1	1	1	97	9	1	1	
Straw . . . . .	20	38	2	38	3	34	5	27	4	38	40	4	6	30	1	28	97	9	1	1	
Varney . . . . .	1	28	1	27	1	44	37	2	54	2	55	9	6	43	7	50	273	28	19	19	
Webster-street . . . . .	6	18	6	42	1	45	3	37	2	28	2	50	1	50	30	5	338	22	2	50	
Wilson . . . . .	7	40	6	45	3	46	7	57	3	63	2	42	31	31	38	38	300	18	2	25	
Youngsville . . . . .	2	10	5	10	3	17	22	1	17	2	17	4	4	4	4	4	362	21	19	38	
Harvey . . . . .	2	10	5	10	3	17	22	1	17	2	17	4	4	4	4	4	76	21	19	38	
Mosquito Pond . . . . .	6	6	1	3	1	3	9	2	2	2	6	6	6	6	6	6	18	2	2	3	
Stark . . . . .	6	6	3	5	3	3	9	1	1	1	1	1	1	1	1	1	27	1	1	3	
Webster's Mills . . . . .	2	2	3	3	3	3	3	1	1	1	3	3	3	3	3	3	16	3	1	3	
Total . . . . .	162	692	96	651	56	651	775	40	883	66	523	42	42	421	30	395	4721	382	84	336	
Percentage . . . . .			15.4		8.6		7.0	5.1		9.6		8		7.1		1.5		8.0	1.7		

\* Special Classes, Maynard . . . . . 78  
 " " Rimmon . . . . . 16  
 " " Spring-street . . . . . 38  
 } Not included above.  
 132

## RETARDATION IN THE GRADES.

Following the custom of the past four years, two tables are given which show the progress of the pupils through the grades. These tables show the number of pupils in each grade and the number promoted, Table III, at the mid-year promotion; Table IV, at the June promotion.

Had all pupils been advanced, there would have been 9,459 promotions in the two half years. The tables show that 353 pupils were compelled to repeat the work of the first half year and 332 to repeat that of the second, a total for the year of 735. The percentage was seven and seven tenths, one half of one per cent smaller than for the preceding year.

It has been the custom to promote pupils from special classes to the grades at any time. Many such promotions have been made. Exclusive of the advances of special class pupils, there have been double promotions of 159 others. These 159 constitute one and six tenths per cent of the total number of possible promotions. A summary of this balance sheet of results shows—

90.54% of the pupils were advanced normally.

1.68% of the pupils were advanced faster than the normal rate.

7.78% of the pupils were retarded.

The cost per pupil, for all schools, was last year \$32.33. The money value of 735 half-year retardations was \$11,881.27. Under present conditions, there cannot be a much greater reduction in the percentage of retardation. The future remedy will lie in a differentiation of the course of study and the offering of an opportunity for the exercise of activities other than those now aroused by the present curriculum.

Under ideal conditions both of health and courses, there would be no retardation. Under ideal conditions in regard to courses, there would still be a small percentage due to ill health. The school report for 1910 estimated the cost to the city of the retardation of that year and the sum was \$11,829. It would appear that, so far as data at present are available, \$11,800 is a fair estimate of the cost of the annual retardation in our schools. Common sense argues that it would be good business policy to expend a sum equivalent to this in maintaining a variety of courses appealing to a wider range of interests, provided thereby this leak in the educational system might be stopped.

TABLE V.

## MOVEMENT OF PUPILS THROUGH HIGH SCHOOL.

SUBJECTS.	Number passed.	Number failed.
English I.....	201	10
“ II.....	175	7
“ III.....	157	8
“ IV.....	138	2
Latin I.....	91	29
“ II.....	84	18
“ III.....	38	2
“ IV.....	20	.....
Greek I.....	15	1
“ II.....	9	.....
“ III.....	5	.....
French I.....	143	13
“ II.....	61	4
“ III.....	45	.....
German I.....	31	6
“ II.....	30	4
“ III.....	7	7
Algebra I.....	126	7
“ II.....	111	11
“ III.....	51	1
Geometry I.....	126	7
“ II.....	111	11
“ III.....	51	1
“ Solid.....	27	1
Trigonometry.....	28	.....
Surveying.....	26	.....
Greek and Roman History.....	82	4
English History.....	71	.....
United States History.....	134	6
Gen. History of Commerce.....	66	4
Botany.....	34	4
Zoology.....	7	.....
Physics.....	81	12
Chemistry.....	72	8
Astronomy.....	11	1
Geology.....	24	.....
Commercial Geography.....	66	5
Commercial Arithmetic.....	39	.....
Bookkeeping, I.....	31	10
“ II.....	43	7
Stenography, III.....	72	4
“ II.....	55	2
Typewriting.....	55	2

## SIZE OF THE HIGH SCHOOL AS A MEASURE OF EDUCATIONAL EFFICIENCY.

A recent institute circular issued by the State Department of Public Instruction measures the efficiency of the different school systems in the state by the percentage of pupils enrolled in the high school. The circular says, "Other things being equal," referring to social and industrial conditions, "the ratio of pupils attending high school is a good measure of the educational efficiency of a



public school system." The reasoning is as follows: inasmuch as the entire course of study requires twelve years for its completion, four of these being in the high school and eight in the elementary schools, therefore there should be 33 1-3 per cent of the total membership in the high school.

Under this test the schools of the state fall into twenty-two classes and the city of Manchester stands second in the nineteenth class, there being fifty towns and cities with a larger percentage of pupils in the high school and nine with a smaller percentage.

If the social and industrial conditions are identical in all of the sixty places mentioned in the circular, the relative efficiency of the various systems is accurately measured. I do not believe that any student of economic conditions will admit the truth of the premise from which the conclusion is drawn.

The application of the 33 1-3 per cent numerical measure, aside from a consideration of social conditions, would be just only in the case of a town or city that had remained stationary in school population for a period of twelve years, where practically the same number of children entered school each year and progressed regularly through the grades, where there was no illness, where there were no physical defects, no lack of proper food, clothing and care. In such a case, one third of the pupils might be found in the high school.

There are two conditions in regard to population alone under which 33 1-3 per cent is not the proper measure. The first of these is in the case of a town whose school population has been growing steadily smaller for a period of twelve years, where fewer pupils have entered the first grade in each succeeding year. In such a case there should be in the high school more than 33 1-3 per cent of all the pupils. The second of these, and this applies to the city of Manchester, is the case of a town which has been constantly increasing in school population for a period of twelve years. In such a town each class beginning the first grade is larger than the preceding class and the number in every grade is smaller than the number in each preceding grade. Under such conditions the number in the high school would be much less than 33 1-3 per cent.

From 1900 to 1912 the membership in the schools increased by 1,522. The population of the city increased by practically 16,000 souls. The increase in the schools due to the increase in population occurred almost wholly in the grades, and was due to an increase in number of first grade children (see reports for 1908, page 16), and to an increase in general in the grades due to the admission to school of children who had previously attended school elsewhere and whose parents have made Manchester their home. The conclusion is inevitable that the percentage, 33 1-3, is not a fair measure for Manchester with its growing population.

It would seem that the efficiency of a system should be measured

more by the quality of the work done than by the quantity of material which it handles. So far as the high school is concerned and upon the courses offered, we have the testimony of colleges and higher institutions of learning as to the excellence of the preparation given to its students. Endorsements of the work of preparation have been secured from the institutions and published from time to time in the daily papers. Institutions rated higher in the list than the Manchester high school have had larger percentages of failure among its college students.

We are forced to the conclusion that the statement of the circular must be read with due emphasis upon "other things being equal," and with a consideration of the fact that our city has been constantly growing, so that 33.1-3 per cent is too large a percentage, and a further consideration that quality of work done should be a factor in determining efficiency.

#### CONCLUSION.

"Public education is a social force—it aims at social welfare and betterment. It is also the means of individual development—the fullest development (self-realization) of which each individual is capable. As a social force, public education aims to preserve, improve and transmit the resources of society—to develop in each individual general and specific social efficiency. General social efficiency means social intelligence and the power to deal effectively with social problems. Specific social efficiency means vocational efficiency—efficiency in a particular calling." The above from the report of Prof. Paul Hanus in the *New York School Inquiry*, is the most comprehensive statement of the aim of public education that has come to my knowledge. Realization of this aim will call into activity all the social forces of the community.

An exclusively bookish curriculum, rigidly prescribed and applicable to all alike will fall far short of developing all of the powers of the various individuals subjected to its regimen. Our curriculum is bookish. The school is a thing apart, isolated, by itself. The life of the community, its activities, social and economic, touch the schools at almost no point. The reports of this body for 1909, 1910, 1911, 1912 have urged broader courses and a greater variety of work in the curriculum as a means of developing individual aptitudes and powers, that every pupil might find in the school just what he needs to become vocationally fit and socially efficient. What should we think of a physician who prescribed the same regimen for every one of his patients? And yet with our one course of study that is exactly what is done in the public schools.

A progressive policy in school affairs calls for, first, a differentiation in the seventh and eighth years of the elementary school course, whereby pupils may elect during those two years the work which

shall be done. This will necessitate an opportunity for work of a practical character such as may be done in a practical arts school; second, the offering in the high school of technical and practical courses which shall continue the work of the seventh and eighth grade elective courses, making provision for a transfer from one course to another as may be necessary; third, a due recognition and provision for play, sports and games in both elementary and high schools; fourth, provision for securing direct benefits to individuals from medical inspection, by providing free surgical, medical and dental treatment, by hiring school nurses; fifth, by establishing out-door schools, and providing effective means of ventilation for the in-door schools.

This report has shown that there are more than 11,000 children in the schools with more or less serious physical defects; that there are in the public schools 113 non-English speaking children, over age and undergrade; that 32 per cent of all the school children are over age for their grade; that 778-100 per cent of elementary school pupils are retarded, the money cost of the retardation being \$11,881; that, of the grammar school graduates, for every 100 completing the high school courses, 137 leave school; that 665 children left the grades for work during the year; that there are now in school 187 children between the ages of fourteen and sixteen who are kept there by the child labor law. The over age and retardation condition in our schools have practically reached their minimum. No further mitigation of this state can be expected except through a different kind of school course. With the present opportunities offered, and after a second year of the present child labor law, it is to be expected that the over-age percentage will be larger than at present.

These conditions present an unanswerable argument for the practical and vocational courses advocated in this and former reports. The same diet is not suited to produce the best growth in all individuals. It is a plain duty of the community to keep in its school for as long a time as possible as many of its pupils as possible. To do this the school must meet the individual needs of its patrons. It must go further and offer opportunities of such a character that the public cannot afford to neglect them.

Our school system is rated fifty-first among sixty in the state on the basis of high school membership. The sole remedy for this lies in the offering of broader opportunities.

As to the character of the work done by the teachers, in the courses offered, it is most excellent. No community has a more earnest corps of teachers, or one actuated by more altruistic ideals.

Respectfully submitted,

CHARLES W. BICKFORD,

*Superintendent.*

## APPENDIX I.

### REPORT ON THE FOURTH INTERNATIONAL CONGRESS OF SCHOOL HYGIENE, BUFFALO, N. Y., AUGUST 25-30, 1913.

BY JOSEPH M. McDONOUGH of the Manchester School Board.

The International Congress of School Hygiene was composed of about fifteen hundred members from all the European countries, Japan, Southern and Central American countries, Canada and the United States. The object of this congress was to bring together men and women interested in child health, for the purpose of discussing and devising the best methods and means of conserving the health of the school child.

The old idea, namely, that a city government, when it furnishes schools and teachers for the children has done its full duty toward them, is fast giving way to the modern and more sensible notion that the physical welfare of the child is just as important as his mental welfare, that he should be taught how to conserve his health, and that physical defects in the child retard his mentality to a greater or less degree.

Two good reasons are at once apparent for this new idea; the first is, of course, that the physical defects in the children should be as far as possible repaired, so that that generation will be one of strong men and strong women; the second reason is, however, an entirely economic one, and applied to our city of Manchester, it looks something like this. It costs this city about thirty-five dollars per year to educate a child. Under normal conditions, a pupil fourteen years of age should reach the eighth grade at a cost to the city of two hundred eighty dollars. If, on account of some physical defect, such as defective vision, defective mouth conditions, mouth-breathing as a result of adenoids or nose affliction, enlarged tonsils or mal-nutrition from whatever cause, the child only reaches the fourth grade in eight years, he has still cost the city two hundred eighty dollars but with only one hundred forty dollars' worth of result. This may appear theoretical, but there is, nevertheless, a true deficit which, if you are not satisfied is a deficit in dollars and cents, you must certainly be convinced is a deficit which can be measured by the lack of industrial efficiency in that child who is to become one of our future citizens—a deficit which other communities are eradicating by such methods as instructions in cleanliness and hygiene (not sex hygiene) to the children, advice and assistance to the parents of the defective children, and,

best of all, a health inspection department which employs what has come to be known as a "Follow-up" system. By this system, the parent of a defective child is not allowed to forget or neglect the defect.

In a paper by Dr. Foster of Oakland, Cal., which is too long to include in this report, but which, with your permission, I will be glad to read at a future meeting of this board, this "Follow-up" system, together with the best points in an up-to-date inspection department, are fully explained.

Health inspections of schools was by far the most important subject discussed at the Congress, and, of the four hundred papers which were read, over two hundred were on this subject alone.

In Manchester we have medical inspection of schools, and I am sorry to say that our system is perhaps the least effective; it produces less results for good than any system of medical school inspection in the country. Our system is what is known as a part-time system; that is, we employ doctors who give but a part of their time to the work and the examinations are made without much system. The parent is notified if a defect is found in the child, but no more attention is paid to the child or its defect until the next annual or bi-annual examination is made. It is safe to say that not more than five per cent of the defects found are taken care of by the parents, because we do not employ any method of impressing on the minds of the parents the seriousness of the defect or how the child's mentality is impaired as a result of the defect, et cetera. We are one of the few cities which believes in medical school inspection, but which does not employ that absolute necessity, if we would get the best results—the school nurse. In truth, about the only result of the health examination in our city is an oak cabinet in the superintendent's office which contains the child's height, weight, age, et cetera; information which is not of much use because, if the child's card is not normal, nothing is done to correct the deficiency.

In contrast to our system, I would call your attention to a few of the principal features in systems employed in other communities; for instance, Albany, Buffalo, Syracuse, Rochester, Detroit, Cleveland, Oakland, Cal., Seattle, Toronto, et cetera.

The systems, which these and other progressive cities employ, differ very little from one another, and are what is known as whole-time systems. No volunteer work is allowed or no one with divided interest is employed. The head of the department is called the health director, who is a physician and a man of all work, and upon whose tact and ability to handle people depends most of the success of his department. He must train his nurses, be every ready to answer any and all kinds of questions, meet parents and convince them that the work is for their good, see to the sanitary condi-

tions of the schools, and be at all times ready to answer the call of teachers or nurses. In his work he is assisted by a trained nurse for every fifteen hundred pupils. She helps to educate the children in cleanliness and hygiene, she also watches closely the sanitation of the schools and grounds, and helps eradicate infectious diseases. She is constantly with the parents and the children, and by her personality and ability, she is able to convince the parents of the necessity for remedies to defects and is a strong factor in the successful results attained. She has the care of as many schools as will make the total number of pupils under her supervision about fifteen hundred. She visits each school as often as possible (some cities requiring once a day) to look after any particular case and to give any aid or advice that may be needed. Where parents take no notice of the notification of defects found in their children she is invaluable; she visits the home, explains the need of attention, advises that the family physician or specialist be consulted, and she repeats her visits as the need demands. Conditions at the home are studied, and, wherever it will be received, advice as to proper food, bathing, ventilation, et cetera, is given. These are features which have been found to be a wonderful help and which part-time physicians obviously cannot do.

The opinion of the majority of those attending the congress was that a divided interest is not conducive to the best work, and a part-time man finds himself many times compelled to neglect his private practice or his school work, for many times work comes to him during hours which should be devoted to the schools, and the question is, which suffers.

In discussing with Dr. Louis W. Rapeer of the New York Training School for Teachers, the system employed here, and the probable expense of having a system installed such as I have tried to outline above, I was agreeably surprised to find that it is possible to get an excellent health director, trained for the special work, for about two thousand five hundred dollars or three thousand dollars, and that in Manchester, where three nurses at about seven hundred dollars per year would be necessary, the difference in expense between this very thorough system and our own inefficient one would not be more than one thousand dollars per year. Our present system costs this year about four thousand dollars. I am certainly convinced that a change should be made, for the city is not getting more than ten per cent of its money's worth under the present system, and again, with the addition of about one or two thousand dollars to the present cost of school inspection the defects in the children can not only be found out, but means are found to convince the parents of their duty to the child, the necessity for the correction of the defect, and advice to the children and parents can be had. When the parents can afford the treatment, they can have

the treatment administered where they will; but, in the case of the children less fortunate, all that is required is a little assistance from the out-patient department of our excellent hospitals, to which places the school nurses can take the defective children and assist in the work.

There may be some faults with the system which I have been trying to explain; but, if there are any, I fail to see them, and I am thoroughly convinced that, as a result of such a system, the future generation will be stronger mentally and physically; that the gain to the child is certainly great, because he is better equipped for the struggle for existence; that his earning power is increased because of the increase in education he has received as a result of the reparation of his defect. There are ideas expressed in this report which are entirely new to some people of our city, but, to know that other communities have realized the necessity for these things, to know of the excellent results attained, perhaps that will induce them to let us try some of these excellent systems.

The subject next in importance to medical inspection of schools was that of open-air schools. Open-air schools, it should be explained, have so far been used principally for sub-normal children: such as those who are anaemic, or suffering from mal-nutrition from whatever cause; children known as delicate children, whose strength does not permit of five hours' study and recitation per day, and, because of the great good this treatment has done for this class of pupils, this very pertinent question was continually asked: "If the open-air school is so beneficial to the sub-normal child, why isn't it a good thing for the health of the normal child?"

It was demonstrated time and again that not only was the health of the child improved and in many cases restored, but that its mental efficiency was also improved so much that, even with the enforced rest which the pupil must take morning and afternoon and which is a part of the program of the open-air schools, these children were capable of covering the same amount of matter as the normal class which they had left, and when pronounced healthy enough to leave the open-air school, took their places in the classes in which they had started. Cities everywhere have concluded that the open-air school is a necessity, and many have made tests to be sure of their worth, as, for instance, the following made by Dr. Roach, Medical Inspector for the city Philadelphia. He says:

"At the Alexander Dallas Bache School, in September, 1912, we decided to study the effect of low temperature class-room work on the educational processes of the children. Two groups of normal third grade pupils were available for the test; one group occupied a room heated and ventilated in the usual manner, and the others, with the consent of their parents, were taught all through the winter in a classroom with the windows wide open. Both groups followed

the regular school program, and we observed their work carefully.

"Week by week during the fall and winter and spring we weighed and examined these pupils, watched their study and their play and compared their scholarship.

"As might have been expected, we found at the end that the pupils in the open-window room had gained on an average more than twice as much weight as those in the warm-air room. They kept wholly free from colds, and were much more regular in attendance than the others."

Some cities have gone very extensively into the matter and have spent much money, which, to my mind, after having heard many papers on the subject, is not at all necessary. And bearing in mind the policy of our city government, I decided to get, if possible, the very best low-cost system of open-air schools. In this respect I was very fortunate, and the following paper is by Dr. F. W. Barrows, Medical Inspector of Buffalo schools.

#### OPEN-AIR SCHOOLS IN BUFFALO, BY DR. F. W. BARROWS.

For years past our city has been blessed by the presence of a few courageous teachers who would dare to brave the wrath of principals and even of janitors in order that they and their pupils might breathe the air just as it comes to us, fresh from the purifying billows of our Great Lakes Erie and Ontario. In spite of rules, remonstrances and threats, these teachers have loved fresh air more than any theories of ventilation, and have persistently kept their school windows wide open the year round. Perhaps these open windows, with their bright, rosy-cheeked girls and boys have been the strongest argument in our city for a real open-air school. At any rate, when the Department of Education started our fresh-air class, they placed the children in charge of a teacher who had already demonstrated her ability to get fresh air into a room in spite of any and all "systems" of heating and ventilation. I mention this important fact because it shows that an open-air school is merely the continuation, under somewhat more favorable conditions, of a campaign that had been waged for years by a few of our most progressive teachers. I call them progressive because whenever you find an intellectual worker using his or her full share of oxygen, you find one who excels in mental vigor and efficiency.

In most of our American cities, the open-air school has made its advent under the management and support of private philanthropy. In some cities, a portion of the initial expense for room and equipment has been paid by organized benevolence and the balance has come from the public treasury. In Buffalo, while the Department of Education was subjected for some months to a brisk campaign of exhortation from societies and committees interested in school hygiene, these agencies limited their activities strictly to a policy of agitation and goading. No one thought of raising any money or providing any leaders for the important work of founding and



maintaining our first open-air school. Whatever success we have attained in this good work is due, therefore, to the efforts of the Department of Education and the Health Department. Our first open-air school occupies an ordinary schoolroom with windows on the east side only. The sashes are hung on pivots, so that they may be swung into a horizontal position and admit the maximum amount of air. The desk seats are movable and can be pushed into one corner of the room to give the children space for exercising or resting in their reclining chairs. By shifting the furniture in this way, the room accommodates comfortably twenty pupils. This is merely an open-window schoolroom. Across the hallway is the domestic science room, where the open-air class meets at noon for a well-served hot dinner. Adjoining this room is the lavatory with its clean, white washbowls, tooth brushes, and individual towels and cups for each pupil. Warm blankets, leggins and moccasins are provided, so that no one suffers from cold.

You will naturally ask if a fresh-air environment can be secured in a schoolroom of this sort, which merely opens the windows to the full on one side. Our experience answers this question emphatically in the affirmative. Except on the most sultry days, when children could be easily assembled out of doors for their school program, the ventilation of this room has been quite adequate. In the coldest winter weather the temperature has hovered between twenty degrees and thirty degrees Fahrenheit, while the activities of the school have gone on without interruption. In short, we may say that the history of the class and the results attained in this room present a satisfactory parallel to the best type of open-air schools.

It is not my intention to give a large array of details concerning this severely simple experiment of our city. It should suffice us to know that the program of the school follows the usual line in accordance with the tradition: "Double rations of air, double rations of food, half rations of work." The children receive some form of light nourishment at the beginning and end of the session, and a good square meal at noontime. From calculations made by the domestic science teacher, we know that every child receives in this way about one thousand calories per day in the form of easily digested food, besides the two meals that he eats at home. Due emphasis is placed on exercise, especially on singing. Manual training and lessons in domestic science give variety to the program for the week and take the pupil out of the open-air room for an occasional period. With all the freedom and spontaneity that characterizes the life of this particular room, discipline is not forgotten for a moment, and the weaklings, who are too prone to be peevish and selfish on entering, soon acquire habits of courtesy and mutual helpfulness which give to the class a delightful air of good-fellowship and loyalty to the institution. This improvement in the

morals of the children may be due partly to the excess of oxygen, but is chiefly the result of expert management on the part of the teachers, who prize character quite as much as physique.

As this class is housed in the same building with several hundred normal children, great precautions are taken to exclude all sorts and conditions of contagious disease. No cases of active tuberculosis are accepted, and, if a child develops any symptoms of this or any other contagious trouble, he is at once carefully examined, and if necessary, excluded until the suspicion is cleared up.

The enrollment of the class seldom exceeds twenty. The grand total of pupils from the first day to the present is slightly over one hundred, ranging in age from six to seventeen years and comprising all sorts of physical defects, such as anaemia, nervous disorders—including one epileptic—mouth-breathing, spinal curvature, and various deformities, resulting from disease or accident.

Each child receives a careful physical examination on entering the class. This is the beginning of an active and persistent campaign for the medical and surgical relief of all the removable defects. Great credit is due the teachers for their enthusiastic work in following up the recommendations of the medical inspector. Through their labors about two thirds of the children have received relief from dispensaries, hospitals and private practitioners. Teeth, tonsils, adenoids, defects of vision and hearing, skin diseases, and nutritional disorders have submitted to treatment because the teachers have insisted and persisted until they have brought the child and the doctor together. Orthopedic appliances have been secured for the cripples, and the little girl with appendicitis was relieved of her chronic misery by an operation at the hospital. It is no wonder that, with such zealous care, and with the wholesome influences of the open-air room, the pupils have gained an average of one quarter pound per week during their attendance at the school. One girl gained twenty pounds in forty weeks; another added to her emaciated body seven and one half pounds in six weeks. Comparatively few of the pupils have remained in the class for more than one year. As soon as they are sufficiently improved to return to their former classes, they are "promoted," although there is a feeling among them that it is a misfortune to graduate from the open-air class.

While the children of this room are all debilitated in some way or other, and, on that account are obliged to make special efforts to get to the open-air class, and while some of them travel long distances on street cars, the attendance record for these twenty pupils is better than that of the ordinary grades. They cannot afford to be absent from their school and they manage to get there in all sorts of weather.

If the children realize instinctively their need of this open-air school, why cannot the elders take the hint and supply this need

by enlarging the school to accommodate hundreds instead of scores, and by helping the most delicate pupils to and from the school? We are glad to say that our city has begun to meet the growing demand by opening a second fresh-air room in another part of the city. This room has windows on two sides—also sunshine—and accommodates thirty children. This is but a brief summary of what has been accomplished in the window schoolrooms.

Our plant is by no means ideal. We would prefer a specially conducted building, apart from our large public schools, with such accessory aids as paths, parks, and school gardens. We do not possess these alluring features in our schools. But we do not abandon these schools for want of these luxuries. We have secured excellent results worth striving for right inside of an ordinary school building.

We have hundred of rooms in this city that can be opened to the air on one or two sides; in some of them we have sunshine too. We also have thousands of children whose minds and bodies would rejoice in the exhilaration of such environment. We need not reserve our good supply of fresh air for the weak and debilitated child. It is good enough for the so-called normal child too. For this reason, we wish to see these simple open-window schoolrooms opening up all over our city, and changing the destinies of nice little boys and girls who are regarded by their teachers as not being particularly smart.

On the whole we rather like the open-window rooms. The idea can be applied to any room, dungeon, den, or other place of confinement in which school is kept. In some respects our open-air class is better off than the modern schools which dwell in huts and shacks, such as are used in Toronto, because we have less interruption during storms of wind and rain. The roof never blows off as in some of our canvas houses; the glass does not smash as in some of the conservatory type. Our school is never hopelessly frozen up, it never has to be thawed out, and the pupils never get wet feet in their efforts to secure fresh air. Considered merely as a station in our progress toward the ideal, the open-air schoolroom is full of suggestion and delight.

The ideas set forth by Dr. Barrows are certainly founded on common sense, and because of the small cost required to make one of these open-air rooms and the possibility of attaining the required results, certainly lead one to believe that the Buffalo system should at least be given a trial.

That the open-air movement is becoming more popular each day is certainly so and speakers all through the congress made pleas for open-air and out-of-door schools for weak children. They denounced many of the present complicated systems of school ventilation as breeders of disease, and roundly scored the artificially heated, noisome, and washed-air plants that grafting contractors

and slick salesmen induce school boards and city governments to include in their plans for schools.

The one serious error which the present school board has made is this: We should never have tabled the matter of free dental inspection and treatment for school children. That oral or mouth hygiene is one of the most necessary things for a child to know was most firmly impressed on my mind from the excellent papers read on that subject.

Owing to the lack of substantial proof of the value of having mouth hygiene taught, and mouth inspections made, and treatment given is perhaps the reason why we were not more interested and may account for our serious error.

However, I have had my lesson, and I would call your attention to one or two proofs in particular which were given at the congress. In an illustrated lecture by Miss Cordelia L. O'Neill, principal of the Marion school, Cleveland, O., she presented a number of the members of the famous Marion School Experimental Class in illustrating the benefits to be derived from correcting faulty oral conditions and teaching the proper care and use of the mouth.

The forty children showing the worst oral or mouth conditions out of eight hundred forty-six pupils were selected for the purpose of demonstrating the influence that diseased mouths and teeth wield upon the general health and working efficiency. The twenty-seven children completing these tests showed an average increase in mental working efficiency of ninety-nine and eight tenths per cent in one year's time. In addition to using the children, Miss O'Neill used a number of slides showing the condition of the children both before and after the treatment. When one reflects that no medical or surgical treatment of any kind was given to these children which would in any way influence the physical results, except dental care, treatment, and instruction, one must conclude that mouth hygiene and mouth treatment are a great help to the child.

Another wonderful report was made by Miss Lillian Murney, principal of Murray Hill school, Cleveland. Miss Murney's report dealt with a remarkable case in mouth hygiene and modern dentistry. The case was that of a little girl who not only had eyes that were very decidedly crossed, but had a mentality of a very low order. An inspector found this child had a number of impacted teeth and he advised extraction. Nitrous oxide was administered, the impacted teeth removed, when the eyes immediately straightened, the intellect began to brighten and in a short time she was one of the bright, responsive girls in the school.

These proofs, with a fund of information read from many other papers, thoroughly convinced me of the efficiency of oral hygiene. I believe that if each child be taught to intelligently keep thoroughly clean and healthy, the gateway to his system, the mouth, we will have a healthier, more self-respecting, and all-around better

class of citizens for the next generation. What has been done for these twenty-seven children may be done for every child. If we are called upon to educate children living in crowded city quarters, breathing varieties of harmful gases instead of pure air, eating food adulterated or food sold from shops where it is exposed to the germs that are scattered by that portion of our seventy thousand population that may chance to pass that way; if, as a distinguished physician in Vienna says, the majority of cases of pulmonary tuberculosis are contracted through the alimentary canal, then we must fortify our children by every means in our power; and one of the most effective guns on our fortification is a practical working knowledge and training in Oral Hygiene.

#### CONSERVATION OF CHILDREN'S EYES.

Dr. F. Park Lewis of Buffalo delivered an address on the "Conservation of Vision; its Place in the Schools and Remedies Possible through School Hygiene." Dr. Lewis, in an eloquent plea for the eyesight of the children of the schools, declared only the prompt attention of experienced practitioners would lessen the danger to the health and efficiency of pupils.

In an address replete with warnings that the school child of today cannot withstand the exactions demanded by the strain of modern school conditions, persistent study and night reading, Dr. Lewis asserted that radical medical attention is an absolute necessity.

"Rich and poor alike," said Dr. Lewis, "are victims of myopia." The remedies and causes are obvious and should be treated as early in the child's school life as possible, for near work, such as reading and writing increases the myopia.

The defective vision of school children was the theme of Dr. Lewis C. Weston of the Philadelphia Board of Education. Dr. Weston advocated suitable glasses "in time" to correct the deficiencies of children whose sight had been neglected. He asserted that prompt treatment only was a preventive of blindness.

"Eye dispensaries," said Dr. Weston, "are important. The fact that I wish to emphasize is that gratis refraction must continue. The economic problem, rather than charity, is the reason.

"Medical inspection of school children has revealed the fact that at least twenty-five per cent of all children attending school have defective vision or eye strain sufficiently grave to require the constant use of glasses. In the majority of cases, suitable glasses cause these children to advance and take their places in class along with the normal child. In consideration of these facts, the correction of defective vision in the school child is not receiving the attention that its importance deserves. Such corrections not only increase the efficiency of the pupil and teacher, but have an important economic

value as well, because if a child is backward and remains in the same class for two or three years, it is costing the state two or three times as much as is necessary to teach that child.

Dr. Wessels of the Philadelphia Board of Health, in advocating free glasses to poor children, said:

"The furnishing of free glasses to school children is not a charity, *per se*, but is a duty and an economic problem. Many children have come to the dispensary wearing glasses bought from some refracting optician or from a five and ten-cent store. These glasses were not only unsuitable, but were positively injurious to the child's health or his eyes.

"But few children remain in school after the age of fourteen, the legal age at which children are permitted to work. This fact emphasizes the necessity of examining the eyes of children in the kindergarten and the first grades.

"The fact that I wish to emphasize in this paper is the importance of municipalities establishing their own eye dispensaries for the refracting and the furnishing of glasses free to at least the poor pupils. This is an economic problem rather than a charity, as it reduces the cost of education and at the same time it increases the efficiency of both the pupil and the teacher."

The same old reason for attention to defective vision can be given as for attention to any of the other defects and, as an example of the economic saving to Philadelphia, let me quote Dr Wessels again. He says:

"The department of public health and charities of Philadelphia believes that they have solved the problem. Last year two thousand five hundred cases of defective vision were treated. The differences between the cost of treating the children and the expense that would have been involved had they continued handicapped by defective vision, was a saving estimated at eighty-seven thousand dollars."

Scores of other subjects were treated and among them was School Feeding, something unheard of in these parts but of much importance in some communities; for instance, the city of Toronto in its open-air schools, which are situated on the shores of Lake Ontario, gives three meals and two lunches every day to the pupils. To be sure that the child has had breakfast, a breakfast is served when school opens; about ten o'clock milk and bread is served; at noon, a hearty dinner is given; in the afternoon, at about three o'clock, milk and bread is served, and before school is dismissed, supper is served. This is all gratis and perhaps will give you some idea of what other cities think of the life of its school children.

They believe in building up the child, so that his mental condition will be such that he can understand the subject matter in school, receive an education, and be better prepared to support himself in old age, thereby decreasing dependency and pauperism and diminish-

ing the civic loss by early death, sickness and incapacity. They believe as Sir Lauder Brumton said: "It is cheaper to spend pence on children than pounds on paupers."

Connected with the congress was a most wonderful scientific and commercial exhibition, to which I feel that I should call attention. Eight sections on child health, a free dental clinic and myriad demonstrations on modern education, covering more than two thousand feet of floor space in the Broadway Auditorium, was New York's state contribution to the Fourth International Congress of School Hygiene. The exhibition was more than triple the size of the entire foreign display and more than double the contribution of any other two states. Not only was the exhibition huge, but it was also comprehensive, complete. Beginning near the main entrance to the hall, the warning of the state of New York covered almost every known form of hygiene, backed by statistics showing the state's success in its work to protect its children of the schools.

Parents, pupil, teacher, principal, schoolrooms and methods of medical inspection and instruction, were depicted in posters, photographs and moving electrical models, each designed to explain health dangers usually overlooked. Among the most striking features of the exhibit was a picture of a child using the common drinking cup. An electrical device flashed the figure of "Death," demonstrating the danger of infection from this source.

Albany's contribution to the exhibit depicted the value of medical inspection, photographs and posters showing how a nurse to every fifteen hundred children and how the expenditure of five thousand eight hundred dollars annually raised the health and efficiency of the tiny tots of the schools, while Syracuse played an important part in the exhibition with posters of modern schools and playgrounds. Not the least among the displays was an exhibition of child labor and the problem it presents to the state department of health. Impaired growth, deformities, loss of sight and the ravages of tuberculosis cost the state, according to the statistics presented, millions of dollars yearly. Under the caption of "Robbed of Her Birthright," the state, in a giant poster, depicted a tiny child among toilers many years her senior. The tot, emaciated and anaemic from too early toil, made a powerful appeal for radical reform in this direction.

Syracuse again made its appearance at the exhibit with a remarkable demonstration on what can be accomplished with the feeble-minded. Baskets, blankets, weaving and embroidery, all the work of the inmates of the Syracuse State Institution for the Feeble-Minded, is an excellent criterion of what can be accomplished in this direction. Sub-normal boys and girls and classes in truancy comprise the exhibit contributed by Rochester. Posters, photographs, and statistics showed what is being done to lessen the delinquency of children. Roof gardens as playgrounds, medical inspec-

tion, mouth hygiene and special classes are suggestions offered. Several of the photographs show startling changes in the lives and habits of youngsters placed under treatment.

On the commercial side of the exhibit hundreds of samples of school supplies were shown, and to me the most interesting departure from the old ways was the use of the vacuum cleaner for school work. After seeing the work of these machines, the old broom and dust rag seemed very crude.

To say the congress was a success is making a very mild statement about it. To me the week that I spent in Buffalo was the most interesting and instructive week that I have ever had. The only fault that we could find was the fact that too much information was being dispensed at one time; for example, four hundred papers were read during six days; which, of course, necessitated about six papers being read in six different rooms at the same time. It seems to me that it should not be necessary to wait two years or more for the meeting of these congresses. Nor does it seem necessary to make the affair an international one. Each state, each year, should have a meeting of its Boards of Education and Boards of Health, for exactly the same reasons that the International Congress was held, where all the subjects covered in this congress could be discussed. To such meetings noted hygienists and educators from other states could be invited, so that their methods could be heard and compared with ours. In this report I have grasped as many of the ideas expressed at the congress which were different from ours as it was possible for me to do. And especially did I look for the best methods on the three or four important subjects covered in this paper. I certainly do believe that we should change our medical school or health inspection, so that the defects could be remedied as far as possible. I am convinced of the terrible mental loss because of defective vision, defective teeth, adenoids, malnutrition, et cetera. I believe the open-air schoolroom should be tried, and if as a result of my attendance at the congress you become interested enough in any of these things which I have called to your attention to have them tried and proved a success, I will feel that my trip was not in vain and that my time was well spent.



## APPENDIX.

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- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. ATTENDANCE TABLES.
- VI. TRUANCY.
- VII. FINANCES.
- VIII. HIGH SCHOOL GRADUATES.
- IX. WINNERS OF CLARKE PRIZES.
- X. ORGANIZATION OF COMMITTEES, 1914.
- XI. LIST OF TEACHERS, 1914.
- XII. SCHOOL YEAR, 1913-1914.

# APPENDIX.

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## STATISTICS.

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### I. Population.

Population of the city by last census, 1910.....	70,063
Legal school age, 6 to 21.	

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### II. Schoolhouses.

Number of schoolhouses in use .....	27
Number of schoolhouses not in use .....	0
Number of schoolrooms used for day schools .....	181
Number of rooms used for high school .....	25
Number of rooms used for graded schools .....	145
Number of rooms used for ungraded schools .....	4
Number of rooms used for Manual Training school....	3
Number of rooms used for kindergartens .....	4

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### III. Schools.

(All for both sexes.)

Number of high school buildings .....	1
Number of full graded schools .....	18
Number of lower graded schools .....	3
Number of ungraded schools .....	4
Number of manual training schools (for boys) .....	1

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### IV. Teachers.

Male teachers in the high school .....	7
Female teachers in the high school .....	18
Male teachers in the grammar schools .....	6
Female teachers in the graded schools .....	146
Female teachers in the ungraded schools .....	4
Female teachers in the kindergarten .....	8

Male teachers in the Manual Training school .....	4
Special teachers, male .....	3
Special teachers, female .....	2
Total number of teachers in day schools .....	198
Male teachers in the evening schools .....	12
Female teachers in the evening schools .....	15
Male teachers in the evening drawing schools .....	2

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1912-1913.

SCHOOLS.	Whole number belonging.*		Average membership.	Average daily attendance.	Percent of daily attendance.	TEACHERS.
	Boys.	Girls.				
High School.....	340	369	667	640	96.1	George H. Libby, Master G. I. Hopkins, Submaster Harry N. McLaren Charles F. Bates Norris D. Blake Allan E. Herrick Winfred S. Ross Mary J. Wellington Mary H. Dowd Elsie D. Fairbanks Annie M. Vose Edith M. Pierce Bertha A. Blanchet, Helen I. Buck Cora J. Russell Anne G. Towle Bertha V. Healey Florence E. King Mildred Fvitz Helen Furness Natalie Jones Anna M. Brown Katherine Bars Anna F. Berry Florence Dinsmore
Amoskeag, 8A, 7A, 6A.....	12	17	28	27	97.6	} Assistants Blanche L. Bachelder, Principal Edna L. Merrill Anna C. O'Donoghue Mildred G. Morey
" 6B, 5B, 4A.....	15	27	34	33	96.9	
" 4B, 3A, B.....	11	15	22	21	95.8	
" 2A, B, 1A, B.....	13	17	26	24	91.0	
Amoskeag Totals.....	51	76	110	105	95.5	

GRADES.



ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

SCHOOLS.	Whole number belonging.*		Average membership.	Average daily attendance.	Percent of daily attendance.	TEACHERS.
	Boys.	Girls.				
Franklin-street, 8A, B.	15	11	23	21	95.0	{ Isaac Huse, Master. Frances E. Burdollar. Helen F. Lyons. Daisy E. Flanders. Hazel M. Garmon. Grace M. Whittemore. Gwendolyn A. Woodbury. Mae E. Hills. Ida L. Montgomery. } Assistants.
" " 7A, B.	15	21	33	31	95.6	
" " 6A, B.	22	24	39	36	92.7	
" " 5A, B.	22	15	32	27	92.7	
" " 4A, B.	20	11	27	24	90.1	
" " 3A, B.	18	13	28	27	95.4	
" " 2A, B.	18	14	32	30	92.0	
" " 1A, B.	19	24	27	25	93.6	
Franklin-street Totals	149	133	241	224	92.9	
Goffe's Falls, 8A, 7B, 6A.	16	11	16	15	95.6	
" " 5A, 4A, B.	9	7	16	15	95.3	
" " 3A, 2A, 1A.	12	17	23	22	94.0	
Goffe's Falls Totals	37	35	55	52	94.5	
Hallsville, 8A, B.	15	27	39	37	94.8	{ William H. Huse, Master. Millicent S. Morse. Olive A. Rowe. Mary L. Moor. Marjory H. McDougall. Mildred H. Eager. Ina E. Tuttle, 2 terms. Nellie K. Bates, 1 term. Marion L. Smith. Martha J. Kennedy. Vivian Mathews. Alice B. Morrill. Annie R. Corson. } Assistants.
" " 7A, B.	14	18	29	27	93.0	
" " 6A, B.	18	23	39	35	90.5	
" " 5A.	22	17	35	32	92.0	
" " 5B.	28	15	31	28	90.3	
" " 4A.	24	17	37	33	87.6	
" " 4B.	30	16	44	39	89.4	
" " 3A, B.	27	21	45	39	87.1	
" " 2A, B.	22	23	39	35	90.6	
" " 2B.	26	18	36	31	86.9	
" " 1A, B.	29	23	40	34	84.5	
Hallsville Totals	255	218	414	370	89.4	

Highland, 8A, B, 7B.....	10	10	20	19	37.9	Annabel D. Wyman, Principa Mildred W. Simons. { Helen M. Welch, { Assistants.	
“ 6A, 5B, 4B.....	11	11	21	20	36.2		
“ 3A, 2A, 1A, B.....	7	10	14	13	34.5		
Highland Totals.....	28	31	55	52	34.5		
Lincoln-street, 8A, B.....	27	26	47	45	34.9		A. H. M. Curtis, Master. Gertrude Adams, Josephine E. Paige, Lillian F. Crowther. } Ethelyn M. Stearns. } Assistants. J. Elizabeth Cate. Frances L. Farrell. Theodora Richardson. Nettie S. Rennie.
“ 7A.....	19	27	47	44	33.0		
“ 7B, 6A.....	22	27	47	44	33.0		
“ 6B, 5A.....	26	33	42	38	33.2		
“ 5B, 4A.....	23	19	38	34	33.7		
“ 4B, 3A.....	17	19	39	36	31.7		
“ 3B, 2A.....	15	18	34	32	32.6		
“ 3B, 2A.....	15	27	33	31	34.2		
“ 2B, 1A, B.....	23	19	37	34	30.9		
Lincoln-street Totals.....	172	178	317	294	32.7		
Main-street, 5A, B.....	27	16	35	34	33.7	Mary W. Mitchell, Principal. Hattie O. Willard. M. Minnie Sturtevant. Elizabeth F. Waish. } Kate T. Clarke. } Assistants. Mary H. O'Dowd. Myrtle B. Slager. Clara V. Clement.	
“ 5B, 4A.....	21	24	43	41	33.8		
“ 4A, B.....	21	26	44	41	31.1		
“ 4B, 3A.....	29	18	43	40	30.7		
“ 3A, B.....	17	29	41	38	31.2		
“ 3B, 2A.....	22	19	43	39	31.7		
“ 2B, 1A.....	25	24	40	37	31.7		
“ 1A, B.....	36	22	30	28	34.7		
Main-street Totals.....	198	178	320	298	33.1		
Maynard, 5A, B.....	27	20	34	31	30.4		Nellie F. Dunnington, Principal. Ella M. Chapman. Bessie R. H. Crane. Mary A. Brennan. Hazel R. Porter. } Mary K. Connor. } Assistants. Florence Prescott. May R. Callaghan.
“ 4A, B.....	22	19	37	33	33.9		
“ 3A, B, & Non-English.....	27	19	35	33	33.0		
“ 2A, B.....	10	25	33	30	30.1		
“ 1A.....	19	20	31	28	33.4		
“ 1B.....	14	10	31	25	31.1		
“ Special.....	14	25	40	34	37.1		
“ Special & Non-English.....	31	26	37	31	34.3		
“ Special.....	37	26	37	31	34.3		
Maynard Totals.....	187	164	278	245	33.1		
Parker, 8A, 7A, B.....	10	19	31	30	33.1	Mary E. Moulton, Principal. Mary L. Ayer. Frances M. Landers. Marion F. Partridge. Gertrude S. Mitchell. Eda M. Barr. } Agnes L. Montgomery. } Assistants. Lorna E. Morrison. Maude E. Winegar.	
“ 6A, B.....	13	13	34	32	35.0		
“ 5A, B.....	16	22	31	30	36.6		
“ 4A, B.....	16	33	45	44	34.2		
“ 3A, B.....	22	16	44	42	35.1		
“ 3B, 2A.....	16	28	40	38	32.0		
“ 2B, 1A.....	13	19	32	30	34.4		
“ 1B.....	23	34	25	23	34.4		
Parker Totals.....	129	183	282	269	35.4		

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS—Continued.

SCHOOLS.	Whole number belonging.*		Average membership.	Average daily attendance.	Percent of daily attendance.	TEACHER
	Boys.	G irls.				
Pearl-street, 5A, B.....	17	13	28	27	97.6	Mary G. Tynan, Principal. Nellie M. Smith, } Assistants. Florence Abbott, } Alice E. Walsh.
" " 4A, B.....	16	14	27	26	96.1	
" " 3A, B.....	12	10	19	18	83.7	
" " 2A, B, 1A, B.....	15	18	25	24	95.2	
Pearl-street Totals.....	60	55	99	95	95.9	
Rimmon, 5B, 4A.....	17	19	33	21	89.2	Alice M. Pepin, Principal Louise M. Bryson. } Assistants. Mary S. White, } Gertrude A. Lowe.
" " 4B & Special.....	25	19	30	26	86.6	
" " 3A, B.....	20	11	26	22	83.1	
" " 2A, 1A, B.....	16	17	28	24	82.8	
Rimmon Totals.....	78	66	107	93	86.9	
Spring-street, 5A, B.....	20	19	25	24	96.6	Annabel Emerson, Principal. Lou Kean. } Assistants. Saddle B. Davis, } Sarah B. Dunbar. } Marguerite C. Donnelly, substitute.
" " 4A, B, 3A.....	9	9	20	19	91.0	
" " 3B, 2A, B.....	18	23	32	30	97.2	
" " 1A, B.....	25	30	33	30	90.4	
" " Non-English.....	39	37	37	34	91.2	
Spring-street Totals.....	111	118	147	137	93.2	
Straw, 8A, B.....	17	11	28	27	95.8	Alta C. Willand, Principal. Marjorie S. Woodbury. } Assistants M. Eunice Willand, } Elizabeth J. McKelvie, } Laura M. Gould, } Marjorie S. Holt, } Lauretta B. Sawtelle, } Florence H. Moore, } Edith M. Stebbins.
" " 7A, B.....	21	12	30	29	95.7	
" " 6A, B.....	22	22	39	37	94.3	
" " 5A, B.....	14	10	31	29	92.0	
" " 4A, B.....	32	18	34	32	94.0	
" " 3A, B.....	15	20	33	31	93.2	
" " 2A, B.....	22	24	38	36	94.3	
" " 1A, B.....	24	21	31	30	95.5	
Straw Totals.....	167	144	264	251	95.1	



Varnoy, 8A.....	29	28	51	50	97.6	{ George Winch, Master. Jennie V. Williamson, granted leave of absence. Bertha L. Marden, substitute. Esther M. Dickey. Helen M. Bullard. Bertha L. Marden. Mary E. Walker, substitute. Mary E. Trinity. Jennie M. Landers. Martha E. Leuz. Annie E. Walsh.	
“ 7A, B.....	20	24	45	42	94.6	Assistants.	
“ 6A, B.....	25	25	46	43	94.1		
“ 6B, 5A.....	34	25	48	46	95.5		
“ 5B, 4A.....	25	20	42	39	93.5		
“ 4B, 3A.....	19	15	40	38	94.2		
“ 3B, 2A, B.....	22	15	39	37	94.6		
“ 1A, B.....	24	23	28	26	92.7		
Varnoy Totals.....	198	175	339	321	94.7		
Webster-street, 8A.....	17	15	28	27	97.0		{ John Gault, Master. Maudie Lamprey. Lillian Whitney. Jennie Russell. Eva F. Tuson. Jean Gillan. Marcia M. Moore. Agnes M. Woodbury. Sarah M. McKeivie.
“ 7A.....	15	19	34	32	93.6		Assistants.
“ 7B, 6A.....	20	20	35	32	91.8		
“ 6B, 5A.....	14	26	38	35	91.4		
“ 5B, 4A.....	14	23	35	33	94.7		
“ 4B, 3A.....	20	21	38	36	95.3		
“ 3B, 2A.....	27	20	41	38	92.1		
“ 2B, 1A, B.....	22	15	30	26	85.4		
Webster-street Totals.....	149	159	279	259	92.8		
Wilson, 8A, & Special.....	24	18	44	42	95.6	{ Barbara B. Joy, Principal. Blanche L. Bryant. L. Helen Haskell. Harriet H. Richardson. Florence Richardson, leave of absence. Frances J. Prescott, substitute. Elizabeth H. Callaghan. Bertha V. Franks. Florence L. Abbott. Marjorie Drew. Avis A. Armstrong.	
“ 7A, B, 6A.....	16	21	40	38	94.9	Ass'ts.	
“ 6B, 5A.....	28	17	43	40	93.6		
“ 5A, B.....	23	26	42	39	93.2		
“ 4A.....	26	26	39	37	93.8		
“ 4B, 3A.....	32	23	44	40	90.8		
“ 3B, 2A.....	23	21	41	38	92.4		
“ 2A, B.....	19	18	31	28	91.7		
“ 1A, B.....	32	38	41	36	88.0		
Wilson Totals.....	223	208	365	338	92.6		
Youngsville, 5A, B, 4B.....	31	22	36	32	88.6		{ Mary E. Stevens. Blanche L. Corning.
“ 3B, 2B, 1A, B.....	21	37	37	34	90.4		
Youngsville Totals.....	52	59	73	66	90.3		

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS—Concluded.

SCHOOLS	Whole Number Belonging*		Average membership	Average daily attendance	Percent of daily attendance	TEACHERS
	Boys	Girls				
<b>SUBURBAN SCHOOLS.</b>						
Harvey District.....	7	11	17	15	91.4	Emma J. Ela, Agnes C. Bruton, { Nellie K. Bates, 2 terms, { Sadie E. Hutchinson, substitute, 1 term. { Edna A. Blood.
Mosquito Pond.....	16	19	24	21	88.7	
Stark District.....	17	19	21	22	90.7	
Webster's Mills.....	7	5	11	10	91.0	
Suburban Schools Totals.....	47	54	76	68	89.5	
<b>KINDERGARTENS</b>						
Chandler.....	32	34	45	40	89.3	{ Mabel B. Currier. { Eugenia Morey. { Grace M. Carr. { Edith M. Sturtevant, 1 term. { Jeannette M. Watson, 2 terms. { Elsie M. Dustin. { Katherine S. Winegar. { Marion Ryan. { Maude A. Avery.
Spring.....	27	35	36	32	88.0	
Straw.....	22	42	34	28	80.4	
Varney.....	43	28	44	38	85.8	
Kindergarten totals.....	124	139	159	138	86.8	
Aggregate totals for 1912-1913.....	3,853	3,326	5,711	5,309	93.0	
Aggregate totals for 1911-1912.....	3,544	3,495	5,910	5,469	92.5	

\* Exclusive of duplicate enrollment, no account being made of pupils received by promotion or transfer from other city schools.

## EVENING SCHOOLS.

*Summary of attendance upon the several grades of public evening schools for the year 1912-1913.*

SCHOOLS.	Whole number of different pupils.		Average membership.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
Franklin-street .....	.....	57	35	32	89.7
Lincoln-street.....	80	9	57	31	54.0
Rimmon.....	78	51	97	79	80.0
Spring-street .....	263	.....	114	84	73.7
Drawing schools { Mechanical.. } { Architectural }	55	.....	29	24	81.1
Totals, 1913.....	476	117	332	250	75.3
Totals, 1912.....	777	190	505	380	75.2

*Evening School Teachers.*

Honorie J. Crough, principal of Franklin-street school for girls.

Assistants.—Margaret G. Linen, Genieve B. Wilson, Carlena A. Savory, Gertrude B. Bachelder.

Ferdinand Farley, principal of Lincoln-street school, for both sexes.

Assistants.—Katherine McDonald, Thomas A. McCabe, Jessie P. Stevens.

Carroll S. King, principal of Rimmon school, for both sexes.

Assistants.—James J. Mahoney, John B. Donnelly, Arthur Blaine, Adelia Murphy, Frances Abbott, Gertrude Cronin, Sarah Lyons, Nora Sullivan.

E. B. Willand, principal of Spring-street school for boys.

Assistants.—Minnie Sullivan, Mary D. F. Young, Myra V. Moore, Harold C. Caine, Joseph F. Doyle, Arthur J. Tonery, Dean R. DeMerritt, Joseph Russell.

*Evening Drawing School Teachers.*

John M. Kendall and Henry W. Allen.

## GENERAL SUMMARY.

The following table presents the main features of interest pertaining to the attendance upon the public schools for the last fourteen years; a similar table may be found in the report for 1896.

YEARS.	Average number of schools.	Average number of teachers employed.*	Enrolled in public day schools.	Average membership.	Average daily attendance.	Percentage of daily attendance.	Average attendance evening schools.	Graduated from grammar schools.†	Passed grammar schools for high school.†	Entered high school.†	Graduated from high school.	Average number belonging to high school.
1900.....	126	135	5,462	4,388	3,998	91.8	179	225	214	152	72	380
1901.....	127	137	5,808	4,552	4,127	90.5	191	189	179	137	69	379
1902.....	129	142	6,123	4,876	4,480	91.9	250	221	211	159	62	390
1903.....	130	146	6,013	4,774	4,338	90.8	196	203	183	137	65	405
1904.....	133	149	5,920	4,889	4,483	91.7	197	237	214	169	80	401
1905.....	133	150	5,841	4,817	4,412	91.6	252	247	226	168	63	423
1906.....	135	152	5,703	4,907	4,531	92.3	246	261	220	161	78	455
1907.....	139	158	5,974	4,995	4,589	91.9	305	255	226	180	78	483
1908.....	141	162	5,944	5,163	4,795	92.9	315	255	226	173	103	529
1909.....	146	166	6,391	5,337	4,936	92.5	308	286	264	198	107	544
1910.....	154	174	6,521	5,541	5,100	92.0	413	280	247	220	107	589
1911.....	156	177	6,303	5,383	4,946	91.8	398	366	251	217	124	619
1912.....	161	190	7,039	5,910	5,469	92.5	380	291	264	197	108	646
1913.....	166	198	6,679	5,711	5,309	93.9	250	336	310	266	126	667

\* Including special teachers, principals, assistants, etc.

† And the A class in suburban schools.

‡ From grammar schools, parochial schools, and surrounding towns. (195 from grammar schools.)

VI. Work of Truant Officer.

DATE.	Absentees re-ported.	No. volunta-riely returned.	No. reported caused to at-tend.	No. moved out of city.	No. found sick and unable to attend.	No. otherwise unavailably detained.	No. not found.
1912.							
September .....	104	31	43	7	3	20	.....
October .....	85	3	62	3	11	5	1
November .....	240	85	70	31	22	32	.....
December .....	98	22	35	6	12	23	.....
1913.							
January .....	168	10	129	8	18	3	.....
February .....	115	18	75	9	8	4	1
March .....	67	12	44	5	3	2	1
April .....	120	10	89	6	10	5	.....
May .....	200	17	163	13	4	3	.....
June .....	96	3	84	7	2	.....	.....
Totals .....	1,293	211	794	95	93	97	3

VI. Work of Truant Officer.—*Concluded.*

DATE.	Truants not enrolled found on streets.	No. of school age found on streets in school hours.	No. of families visited.	No. of notices served.	No. temporarily confined at police station.	No. brought before the court.	Sentenced.	No. of employ-ment certifi-cates issued.	No. of employ-ment certifi-cates trans-ferred.
1912.									
September .....	9	315	163	.....	1	.....	.....	1,325	298
October .....	12	135	235	.....	.....	.....	.....	81	80
November .....	11	150	260	.....	.....	.....	.....	91	106
December .....	4	100	200	1	.....	1	.....	129	78
1913.									
January .....	9	145	200	1	3	1	1	120	93
February .....	8	233	163	1	.....	.....	1	68	97
March .....	3	90	105	.....	2	.....	.....	129	116
April .....	6	100	115	1	.....	.....	.....	99	119
May .....	3	250	265	.....	3	.....	.....	142	184
June .....	.....	150	200	2	2	.....	.....	295	135
Totals .....	65	1,668	1,906	6	11	2	2	2,479	1,306

## VII. Finances, 1913.

ITEMS OF ACCOUNT.	Appropriations.	Expenditures.
Books and stationery.....	\$50.00	\$44.64
Care of rooms.....	15,000.00	14,973.51
Contingent.....	5,000.00	8,533.20
Evening schools (common).....	3,000.00	2,352.00
Evening schools (drawing).....	300.00	203.66
Free text-books and apparatus.....	10,000.00	10,099.83
Fuel.....	16,000.00	16,663.71
Furniture and supplies.....	2,000.00	1,954.36
Manual training.....	400.00	394.80
Printing and advertising.....	700.00	567.51
Care of school clocks.....	350.00	262.50
Teachers' salaries.....	156,525.00	150,981.27
Repair of furniture.....	500.00	470.79
Vocational school.....	500.00	225.00
Piano, Maynard school.....	300.00	300.00
Cost of city schools.....	\$210,625.00	\$208,026.78

## COST OF CITY SCHOOLS.

*Salaries.*

Cost of city schools .....	\$208,026.78
Members of school board .....	275.00
Clerk of board .....	175.00
Superintendent of schools .....	3,000.00
Truant officers .....	2,295.83
	\$213,772.61

*Receipts.*

Literary fund .....	\$4,483.62
Tuition and free text books*.....	2,284.43
	6,768.05
Net amount raised by taxation.....	\$207,004.56

The city valuation for 1913 was \$71,747,937, and hence the rate of taxation for the year was \$207,004.56, divided by \$71,747,937, or .0028+. Last year the rate was .0026+. The cost per pupil was \$37.43.

VIII. High School Graduation.

PROGRAM.

"LA BURLESQUE"—(Overture) .....	<i>Suppé</i>
"SALUT D'AMOUR" .....	<i>Elgar</i>
"CHACONE" .....	<i>Durand</i>
"FESTIVAL MARCH" .....	<i>Mendelssohn</i>

HIGH SCHOOL ORCHESTRA.

(a) "LOVELY APPEAR"—(from "Redemption").....	<i>Gounod</i>
(b) "BARCAROLLE"—(from "Tales of Hoffman").....	<i>Offenbach</i>

GRADUATING CLASS.

SALUTATORY,

MARION SAWYER.

(a) REVERIE,	
(b) TARRENTELLE .....	<i>Vieuxtemps</i>

MISS FRANCES LOWENSTAM.

WM. R. McALLASTER, *Accompanist.*

CLASS HISTORY,

KYLE WESTOVER.

"WALTZ AND CHORUS"—(from "Faust").....	<i>Gounod</i>
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GRADUATING CLASS.

VALEDICTORY, "American Ideals,"

WILLIAM R. McALLASTER.

CLASS ODE .....

Words, *Dorothy Vincent*

Music, *Beatrice E. Lodge*

GRADUATING CLASS.

PRESENTATION OF DIPLOMAS,

HIS HONOR MAYOR CHARLES C. HAYES.

"HAIL, ALMA MATER".....

Words, *Alfred B. Lemon, '09*

Music, *Carl F. Robinson, '09*

## GRADUATING CLASS.

## LIST OF GRADUATES, 1913.

*Boys.*

Everett Beane	Jacob Kurtz
Hervey George Beaudry	Arthur W. Langer
Allan Bryan Bethune	Ralph Monroe Manter
James Ross Bethune	Earle Jay Marshall
Harold G. Blood	Charles J. Matthews
Clarence Milton Bready	William Riddle McAllaster
Wilfred Hawkins Brehaut	Max McConachie
Fred E. Bryant	Walter Dency Minigan
Clarence James Campbell	Howard Prince Noyes
David Cedar	Daniel W. O'Brien
M. Marston Chandler	Thomas F. O'Connor
Guy Emery Chapman	George Downes Parnell
Charles H. Colburn	Frank Alden Partridge
Norris W. Corey	L. Maurice Quirin
Harold A. Crosby	Royden Eugene Reed
Elmer Frank Cutts	Paul Curtis Richards
Ray W. Doane	Harold Chester Robinson
Louis P. Doucet	Henry David Robinson
Joseph Herbert Dunlap	Ned Harold Smith
Charles B. Duran, Jr.	George Snelling
Max Pick Eames,	Elmer Somers
Clay F. Emerson	Daniel Douglass Steele
Emdon Fritz, Jr.	Howard L. Steele
Maurice Gordon	Harold Andrew Sym
Howard Drake Gould	Bertrand E. Tremblay
Edgar Emilio Goulet	Chester Raymond Underhill
Lewis A. Hamer	Herman W. Watjen, Jr.
Harold Channing Hill	Kyle Westover
Clarence William Jellis	John Aldred White
David W. Johnson	Russell Leo Willis
	Louis Elmer Tarr (1909)

*Girls.*

Hazel Leibhardt Annis	Dorothy Mildred Chadbourne
Winnifred Bailey	Flora Lillian Charles
Gladys Wilhelmina Blanchard	Marian Mae Clark
Catherine Agnes Boyle	Grace Mildred Colby
Mildred May Boynton	Myra Belle Colby
Marion Brackett	Beulah Corey
Olive Burke	Rose Genevieve Crosby
Phyllis Burke	Charlotte Mary Davis
Catherine Ann Carroll	Edith Todd Dexter



Angie Myrtle Duncan	Anna Mary Mahoney
Marjorie Doris Dyke	Eva G. N. Mayhew
Sadie Ruth Feldman	Mary Ann McKenna
Helen Kathleen Gallagher	Ruby Josephine Mosher
Rosamond Knowlton Gilman	Mildred Blanche Murphy
Loretta Frances Goodwin	Arabell Parnell
Marie Lillian Goulet	Alice Liliane Precourt
Dorothy Griffin	Anna Maree Pritchard
Beatrice Rose Haughey	Lucy Martin Roache
Alice Lydia Hiland	Gladys Mildred Ryerson
Milda Augusta Hoffmann	Mary Emily Sanborn
Evelyn Ruth Isbister	Marion Sawyer
Ethel Mae Jellis	Corinne Margaret Scollard
Mable Florence Johnson	Mabel Edith Shaw
Florence Rose Kean	Fannie Slosberg
Mary Agnes Kendrigan	Edith May Smith
Evelyn Grace Lackie	Ruth Maria Tarbell
Lucille Marion Libby	Mehitable J. Taylor
Pauline Marjorie Lichtenstein	Helen Florence Tilton
Beatrice Eleanor Lodge	Marion Garnett Towle
Esther Adeline Lovely	Margaret Esther Tuttle
Frances Lowenstam	Dorothy Vincent
Margaret Theresa Lyons	Ida Mae Wright
	Muriel A. Wyman

## CLASS ODE.

Gained is the height for which we have striven!  
 Steep rose the mountain; o'erclouded the way;  
 Yet were the shadows of darkness oft riven  
 When, through the rifts, gleamed a comforting ray.  
     One struggle now is done!  
     One goal at last is won!  
 Fearless and hopeful, we start out anew!  
     Fair winds the path along,  
     As, with uplifted song,  
 Onward and upward our course we pursue.

To thee, Alma Mater, our best we have tendered;  
 Long hast thou guided our lives by thy sway.  
 In grateful return for the help thou hast rendered,  
 Bravely accept we all tasks on our way.  
     E'er to us thou wert kind!  
     May we thy lessons mind!  
 "Semper Paratus" our watchword shall be!  
     Shine as a starry light,  
     Steady and ever bright,  
 "Always Prepared"—we have learned it from thee!

—Dorothy Vincent, '13.

## IX. Winners of Clarke Prizes.

FOR EXCELLENCE IN ELOCUTION AT CONTEST, JANUARY, 1913.

- First prize, \$25, Frank Henry Shea.  
 Second prize, \$20, Ramona Elizabeth Fantom.  
 Third prize, \$10, Elizabeth Mae Colby.  
 Fourth prize, \$5, Eleanora Josephine Johnson.

## X. Organization. 1914.

## SCHOOL COMMITTEE.

CHARLES C. HAYES, <i>Mayor</i>	<i>Ex officio Chairman</i>
JAMES M. YUILL, 93 Middle street,	<i>President of Common Council, ex officio</i>
EDWARD B. WOODBURY,	<i>Vice-Chairman of the Board</i>
CHARLES H. MARTEL, 295 Pearl street,	<i>Clerk of the Board</i>
Ward 1. Patrick B. Maloney, 47 Water street.	
Ward 2. Allan M. Wilson, 293 Myrtle street.	
Ward 3. George M. Watson, 17 Oak street.	
Ward 4. William A. Phinney, 450 Manchester street.	
Ward 5. Francis J. Hurley, 263 Green street.	
Ward 6. Joseph M. McDonough, 279 Spruce street.	
Ward 7. Edward B. Woodbury, 73 Pleasant street.	
Ward 8. Frank A. Cadwell, 142 Douglas street.	
Ward 9. Euclide F. Geoffrion, 494 Hevey street.	
Ward 10. Maurice L. Bullard, Byron street.	

## SUPERINTENDENT OF PUBLIC INSTRUCTION.

CHARLES W. BICKFORD.

Residence, 1077 Union street. Office, City Hall building.  
 Telephone 1615.

Office Hours.—From 8 to 9 o'clock A. M., on school days, except Thursdays; Thursdays from 7.30 to 8.30 P. M.

## SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN,

253 Ash street.

Office Hours.—8. to 11.30 A. M. and 1.30 to 5 P. M. on school days; 8 to 12 M. Saturdays.

Office closed during vacations.

## TRUANT OFFICERS.

CURTIS W. DAVIS,  
849 Chestnut street.

HARRY J. WOODS,  
482 Central street.

## CLERK.

ALEXANDER J. DEMERS,  
213 Bell street.

To be found at Superintendent's office, City Hall building, daily, from 11.30 A. M. to 1 P. M.; also on Thursday evenings from 7.00 to 9.00.

## RULES OF ORDER.

The regular meetings of the Board shall be held on the first Friday evening of each month, at 7.30 P. M., and special meetings at the call of the clerk, whenever requested by the vice-chairman, or two members of the Board, in writing.

At regular meetings, business shall proceed in the following order, unless otherwise ordered by the Board:

1. Reading of the record of the previous meeting.
2. Petitions, applications and notices.
3. Report of the superintendent.
4. Reports of standing and sub-committees.
5. Reports of select committees.
6. Unfinished business.
7. New and miscellaneous business.

A majority of the members of the Board shall constitute a quorum; but a majority of the whole Board voting in the affirmative shall be necessary to elect or remove teachers, to fix salaries, to appropriate money, or to amend or suspend the rules.

The rules of parliamentary practice comprised in "Cushing's Rules of Proceeding and Debate in Deliberative Assemblies" shall govern in all cases in which they are not inconsistent with the "Rules and Regulations" of the Board.

## STANDING COMMITTEES.

*Finance.*—Mayor Hayes, Messrs. Yuill, Woodbury, Cadwell and Bullard.

*Text-Books.*—Messrs. Wilson, Woodbury and Watson.

*Music.*—Messrs. Cadwell, Hurley and Watson.

*Drawing.*—Messrs. Bullard, Cadwell and McDonough.

*Manual Training.*—Messrs. Wilson, Bullard and Phinney.

*Examination of Teachers.*—Messrs. McDonough, Cadwell and Wilson.  
*Fuel.*—Mr. Phinney, Mayor Hayes, Messrs. Yuill, Maloney and Geoffrion.  
*Repairs.*—Messrs. Hurley, Phinney and Maloney.  
*Attendance.*—Messrs. Geoffrion, Bullard and Phinney.  
*Health.*—Messrs. Watson, McDonough and Cadwell.

## SUB-COMMITTEES.

*High.*—Messrs. Watson, Bullard and McDonough.  
*Amoskeag.*—Messrs. Wilson, Geoffrion and Cadwell.  
*Ash-street and Webster's Mills.*—Messrs. Watson, Woodbury and Geoffrion.  
*Bakersville and Mosquito Pond.*—Messrs. Bullard, Phinney and Watson.  
*Brown.*—Messrs. Geoffrion, Watson and Woodbury.  
*Chandler.*—Messrs. Phinney, Cadwell and Maloney.  
*Franklin-street.*—Messrs. Woodbury, Maloney and Bullard.  
*Goffe's Falls and Highland.*—Messrs. Bullard, Maloney and Cadwell.  
*Hallsville and Harvey.*—Messrs. McDonough, Wilson and Phinney.  
*Lincoln-street and Youngsville.*—Messrs. Phinney, Hurley and Wilson.  
*Main-street.*—Messrs. Geoffrion, Cadwell and Bullard.  
*Maynard.*—Messrs. Hurley, Phinney and Watson.  
*Parker.*—Messrs. Cadwell, Wilson and McDonough.  
*Pearl-street.*—Messrs. Woodbury, Maloney and Phinney.  
*Rimmon.*—Messrs. Geoffrion, Watson and Woodbury.  
*Spring-street.*—Messrs. Maloney, Woodbury and Watson.  
*Straw.*—Messrs. Wilson, Geoffrion and Cadwell.  
*Varney.*—Messrs. Cadwell, McDonough and Watson.  
*Webster-street and Stark.*—Messrs. Wilson, Hurley and Bullard.  
*Wilson.*—Messrs. McDonough, Watson and Phinney.  
*Kindergartens.*—Messrs. Watson, Woodbury and Hurley.  
*Evening Schools.*—Messrs. Hurley, Bullard and Woodbury.

## MEETING OF FINANCE COMMITTEE

to approve bills occurs Monday evening preceding the first Wednesday after the 24th of each month, at 7.30 o'clock.

## TEACHERS' SALARY COUPONS

are to be returned to the clerk upon the dates designated by him. Payment will be made at City Treasurer's office Friday and Saturday of the following week.

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 List of Teachers.

(Giving the name, school, grade of school and residence of each teacher.)

HIGH SCHOOL.—BEECH STREET.

Master.—George H. Libby, 581 Chestnut street.

Submaster.—\*George I. Hopkins, 841 Beech street.

Assistants.—\*Harry N. McLaren, 527 East High street.

Charles F. Bates, 188 Sagamore street.

Winfred S. Ross, 499 Beech street.

Harold E. Cowan, Y. M. C. A.

Charles McDaniels, 480 Maple street.

Sherman Ramsdell, 480 Maple street.

\*Mary J. Wellington, The Delta.

\*Mary H. Dowd, 43 High street.

\*Elsie D. Fairbanks, 337 Walnut street.

\*Bertha A. Blanchet, 467 Hanover street.

\*Jane F. Currier, 488 Hanover street.

Annie M. Vose, 689 Union street.

Edith M. Pierce, Goffstown, N. H.

Helen I. Buck, 324 Myrtle street.

Cora J. Russell, 93 Myrtle street.

Anne G. Towle, 191 Ash street.

Bertha V. Healey, 304 Central street.

Mildred Fritz, 754 Chestnut street.

Natalie R. Jones, 571 Chestnut street.

Anna M. Brown, 128 Salmon street.

Katherin Barss, 128 Salmon street.

Anna F. Berry, 273 Walnut street.

Florence Dinsmore, 571 Chestnut street.

Josephine C. Daley, 534 Maple street.

Annie Marston, 41 High street.

Lillian Sleeper, 101 Pleasant street.

Beatrice Tasker, 77 Liberty street.

Librarian.—Iva M. Young, 575 Beech street.

Clerk.—Vona M. Mellen, 581 Chestnut street.

AMOSKEAG SCHOOL.

Principal.—Blanche L. Bachelder, Grades 8, 7, 6, 276 Orange street.

Grades 5, 4.—Edna L. Merrill, 375 Concord street.

Grades 3, 2.—Anna C. O'Donoghue, 22 Hazel street.

Grades 2, 1.—Mildred G. Morey, 710 Beech street.

ASH-STREET SCHOOL.

*Second Floor.*

Master.—Edgar D. Cass, 298 Prospect street.

Master's Assistant.—Amelia L. Graupner (Grade 8), 215 Walnut street.

Grade 7.—Emma L. McLaren, 319 East High street.

Grade 6.—Belle R. Daniels, 586 Beech street.

Grade 5.—Emma J. Cooper, 488 Maple street.

\*Heads of Departments: Mathematics, Science, Latin, English, History, French, Commercial.

*First Floor.*

- Grade 4.—Mary E. Bulman, 600 Beech street.  
 Grade 3.—Alice E. Good, 9 Arlington street.  
 Grades 3, 2.—Elizabeth Partridge (3d floor), 82 Pennacook street.  
 Grade 2.—May F. Nutt, 604 Beech street.  
 Grade 1.—Hulda C. Graupner, 215 Walnut street.

## BAKERSVILLE SCHOOL.

- Principal.—Elizabeth A. Burns (Grades 8, 7), 214 Calef road.  
 Principal's Assistant.—Leila A. Brooks, 34 Brown avenue.  
 Grade 7.—Jennie F. McGrath, 350 Auburn street.  
 Grade 6.—Kathryn D. McKeon, 279 East Spruce street.  
 Grades 5, 4.—Gertrude B. Bachelder, 128 Salmon street.  
 Grade 4.—Florence M. Jarvis, 447 Hanover street.  
 Grade 3.—Augusta S. Downs, 397 Merrimack street.  
 Grade 2.—Phoebe C. Riley, 73 Buzzell street.  
 Grade 1.—Francis C. Murphy, 33 Appleton street.

## BROWN SCHOOL.

*Second Floor.*

- Principal.—Blanche E. Hicken (Grades 8, 7), West Salmon street.  
 Grade 6.—Laura E. McKenna, 154 New Mast road.  
 Grades 3, 6.—Annie Russell, 72 Appleton street.

*First Floor.*

- Grade 5.—Catherine E. Haggerty, 16 High street.  
 Grades 4, 3.—Helen R. White, 70 Kelley street.  
 Grades 3, 2.—Irene M. Moore, 520 South Main street.  
 Grades 2, 1.—Sarah A. Hodgman, 42 George street.

## CHANDLER SCHOOL.

*First Floor.*

- Principal.—Alice C. Taggart (Grade 6), 46 Brooklyn avenue.  
 Grade 2.—Jennie R. McLaughlin, 646 Maple street.  
 Grade 1.—Helen N. Bly, 722 Beech street.

*Kindergarten.*

- Principal.—Mabel B. Currier, 225 Bridge street.  
 Assistant.—Eugenia Morey, 710 Beech street.

*Second Floor.*

- Grade 5.—Harriet S. Tuttle, 154 Lowell street.  
 Grade 4.—Ede B. Shand, 315 East High street.  
 Grade 3.—Amy K. Northrup, 454 Merrimack street.  
 Grade 2.—Delia B. Clark, 368 Merrimack street.

## FRANKLIN-STREET SCHOOL.

*Second Floor.*

Master.—Isaac Huse, 143 Mammoth road.

Master's Assistant.—Frances E. Barndollar (Grade 8), 1458 Elm street.

Grade 7.\*—Helen F. Lyons, 270 Lake avenue.

Substitute.—A. Eva O'Brien, 7 Ainsworth avenue.

Grade 6.—Daisy E. Flanders, 714 Beech street.

Grade 5.—Hazel M. Garmon, 517 Manchester street.

*First Floor.*

Grade 4.—Grace M. Whittemore, 11 Nashua street.

Grade 3.—Gwendolyn A. Woodbury, 19 Hosley street.

Grade 2.—Mae E. Hills, 331 Lowell street.

Grade 1.—Ida L. Montgomery, 306 McGregor street.

## GOFFE'S FALLS SCHOOL.

Principal.—Caroline E. Head (Grades 8, 7, 6), 571 Chestnut street.

Grades 5, 4.—Edith A. Murphy, 162 Winter street.

Grades 3, 2, 1.—Mildred F. Center, 823 Chestnut street.

## HALLSVILLE SCHOOL.

*Second Floor.*

Master.—William H. Huse, 97 Mammoth road.

Master's Assistant.—Millicent S. Morse (Grade 8), 963 Valley street.

Grade 7.—Olive A. Rowe, 118 Walnut street.

Grade 6.—Mary L. Mooar, 330 East High street.

Grade 6.—Agnes C. Bruton, 292 Grove street.

Grade 5.—Marjory H. McDougall, 19 Hosley street.

Grade 4.—Mildred H. Eager, 911 Union street.

*First Floor.*

Grade 4.—Nellie K. Bates, 298 Massabesic street.

Grade 3.—Marion L. Smith, 1034 Hayward street.

Grade 3.—Martha J. Kennedy, 457 Milton street.

Grade 2.—Vivian E. Mathews, 459 Manchester street.

Grade 1.—Alice B. Morrill, 296 Laurel street.

Grade 1.—Annie R. Corson, 1056 Hanover street.

## HIGHLAND SCHOOL.

Principal.—Annabel D. Wyman (Grades 8 to 5), 685 Hanover street.

Grades 6, 5, and 4.—Mildred W. Simons, 93 Prospect street.

Grades 3, 2 and 1.—Helen M. Welch, 949 Union street.

## LINCOLN-STREET SCHOOL.

*Second Floor.*

- Master.—Alvah H. M. Curtis, 329 Orange street.  
 Master's Assistant.—Gertrude Adams (Grade 8), 543 Lincoln street.  
 Grade 7.—Josephine E. Paige, 418 Amherst street.  
 Grade 6.—Lillian F. Crowther, 376 Manchester street.  
 Grade 5.—Ethelyn M. Stearns, 33 Hall street.

*First Floor.*

- Grade 4.—J. Elizabeth Cate, 502 Merrimack street.  
 Grade 3.—Anna B. McDonald, 78 Spring street.  
 Grade 2.—Theodora Richardson, 481 Lincoln street.  
 Grade 1.—Nettie S. Rennie, 439 Laurel street.

## LOWELL-STREET SCHOOL.

*Manual Training.*

- Principal.—Fred E. Browne, 19 South Spring street, Concord, N. H.  
 Assistants.—John Black, Jr., Y. M. C. A.  
                   Charles M. Curl, 279 Ash street.  
                   R. Willis Flanders, 328 Milford street.

## MAIN-STREET SCHOOL.

*Second Floor.*

- Principal.—Mary W. Mitchell (Grade 5), 341 Hanover street.  
 Grades 5, 4.—Hattie O. Willand, 16 Monroe street.  
 Grade 4.—M. Minnie Sturtevant, 1056 Hanover street.  
 Grades 4, 3.—Elizabeth F. Walsh, 166 North Main street.

*First Floor.*

- Grade 3.—Kate T. Clarke, 313 Granite street.  
 Grades 3, 2.—Mary H. O'Dowd, 697 Pine street.  
 Grades 2, 1.—Myrtle V. Slager, R. F. D. No. 6.  
 Grade 1.—Clara V. Clement, 104 Parker street.

## MAYNARD SCHOOL.

- Principal.—Nellie F. Dunnington (Grade 6), 367 Lake avenue.  
 Grade 5.—Ella M. Chapman, 36 Vinton street.  
 Grade 4.—Bessie R. H. Caine, 7 Old Falls road.  
 Grades 3, 2.—Mary A. Brennan, 487 Candia road.  
 Grades 2, 1.—Hazel R. Porter, 330 East Spruce street.  
 Grade 1.—Mary K. Connor, 417 Central street.  
 Grades 5, 4 (Special).—Florence A. Prescott, 612 Belmont street.  
 Special Class.—Cassie M. Colby, 802 South Beech street.  
 Assistant.—Emma J. Ela, 585 Beech street.



PARKER SCHOOL.

*First Floor.*

Principal.—Mary E. Moulton, 265 Milford street.  
 Principal's Assistant (Grades 8, 7).—Mary L. Ayer, 51 Erie street.  
 Grades 3, 2.—Agnes L. Montgomery, 306 McGregor street.  
 Grade 2.—Lorna E. Morrison, 11 Parker street.  
 Grade 1.—Maude E. Winegar, 200 Sagamore street.

*Second Floor.*

Grade 6.—Frances M. Landers, 1025 Valley street.  
 Grade 5.—Marion F. Partridge, 73 Sagamore street.  
 Grade 4.—Gertrude S. Mitchell, 7 South Main street.  
 Grade 3.—Eda M. Barr, 178 Milford street.

PFARL-STREET SCHOOL.

Principal.—Mary G. Tynan (Grades 5, 4), 235 Pearl street.  
 Grades 4, 3.—Nellie M. Smith, 1327 Hanover street.  
 Grades 3, 2.—Florence Abbott, 333 East High street.  
 Grades 2, 1.—Alice E. Walsh, 166 North Main street.

RIMMON SCHOOL.

*Second Floor.*

Principal.—Alice M. Pepin (Grade 4, Special), 270 Coolidge avenue.  
 Grades 4, 3.—Louise M. Bryson, 486 Granite street.

*First Floor.*

Grades 3, 2.—Mary S. White, 70 Kelly street.  
 Grade 1.—Gertrude A. Lowe, 477 Bridge street.

SPRING-STREET SCHOOL.

*Second Floor.*

Principal.—Annabel Emerson (Grade 4), R. F. D. No. 2.  
 Grade 3.—Lou E. Kean, 271 Laurel street.  
 Non-English.—Marguerite C. Donnelly, 36 Prince street.

*First Floor.*

Grade 2.—Sadie B. Davis, 81 Winter street.  
 Grade 1.—Sarah B. Dunbar, 538 Lake avenue.

*Kindergarten.*

Principal.—Jeannette Watson, 260 Harrison street.  
 Assistant (Substitute).—Cora W. Cummings, 426 Manchester street.

## STRAW SCHOOL.

*First Floor.*

Principal.—Alta C. Willand, 16 Monroe street.

Assistant.—Marjorie S. Woodbury (Grade 8), 73 Pleasant street.

Grade 7.—M. Eunice Willand, 16 Monroe street.

Grade 2.—Sarah H. Russell, 72 Appleton street.

Grade 1.—Edith M. Stebbins, 92 Walnut street.

*Second Floor.*

Grade 6.—Elizabeth J. McKelvie, 326 Laurel street.

Grade 5.—Laura M. Gould, Goffstown.

Grade 4.—Marjorie M. Holt, 412 Amherst street.

Grade 3.—Lauretta B. Sawtelle, 285 Myrtle street.

*Kindergarten.*

(Straw Mansion.)

Principal.—Elsie M. Dustin, 79 Pennacook street.

Assistant.—Katherine S. Winegar, 200 Sagamore street.

## VARNEY SCHOOL.

*Second Floor.*

Master.—George Winch, 804 Beech street.

Master's Assistant.—Jennie V. Williamson (Grade 8), 31 Carroll street.

Grade 7.—Esther M. Dickey, 38 Avon street.

*Kindergarten.*

Principal.—Marion Ryan, 432 Walnut street.

Assistant.—Maude A. Avery, 352 Laurel street.

*First Floor.*

Grade 6.—Helen M. Bullard, 286 Jewett street.

Grade 5.—Bertha L. Marden, 307 Walnut street.

Grade 4.—Mary E. Trinity, 50 Elm avenue.

Grade 3.—Jennie M. Landers, 1025 Valley street.

Grade 2.—Martha E. Lenz, 24 Charleston avenue.

Grade 1.—Annie E. Walsh, 166 North Main street.

## WEBSTER-STREET SCHOOL.

*Second Floor.*

Master.—John Gault, 700 Pine street.

Master's Assistant.—Maude Lamprey (Grade 8), 96 Blodget street.

Grade 7.—Lillian Whitney, 488 Central street.

Grade 6.—Jennie Russell, 72 Appleton street.

Grade 5.—Eva F. Tuson, 36 Appleton street.

*First Floor.*

- Grade 4.—Jean Gillan, 7 West Appleton street.  
 Grade 3.—Marcia M. Moore, 841 Union street.  
 Grade 2.—Agnes M. Woodbury, 73 Pleasant street.  
 Grade 1.—Sarah M. McKelvie, 326 Laurel street.

## WILSON SCHOOL.

*First Floor.*

- Principal.—Barbara B. Joy, 481 Hanover street.  
 Assistant.—Blanche L. Bryant (Grades 8, 7), 382 Central street.  
 Grade 2.—Bertha V. Franks, 96 West Merrimack street.  
 Grade 2.—Florence L. Abbott, 356 Laurel street.  
 Grade 1.—Avis A. Armstrong, 311 Lake avenue.

*Second Floor.*

- Grade 6.—Mary E. Walker, 431 Hanover street.  
 Grade 5.—Harriet H. Richardson, 481 Lincoln street.  
 Grade 4.—Florence Richardson, 481 Lincoln street.  
 Grade 3.—Elizabeth H. Callaghan, 1017 Hayward street.  
 Grades 1, 2.—Marjorie Drew, 336 Manchester street.

## YOUNGSVILLE SCHOOL.

- Principal.—Mary E. Stevens (Grade 5), 370 Amherst street.  
 Grades 4, 3.—Blanche L. Corning, 521 Lake avenue.  
 Grades 2, 1.—Sadie E. Hutchinson, 61 Jones street.

## UNGRADED SCHOOLS.

- Harvey.—Alta M. Badger, 600 South Beech street.  
 Mosquito Pond.—Charlotte Murphy, 162 Winter street.  
 Stark.—Vacancy.  
 Webster's Mills.—Edna A. Blood, 397 Merrimack street.

## SPECIAL TEACHERS.

- Drawing.—J. Warren Thyng, 92 Arlington street.  
 Lorraine E. Ryder, 92 Arlington street.  
 Music.—Walter H. Butterfield, 382 Walnut street.  
 Maude E. Brown, 18 Brook street.  
 Penmanship.—Allan E. Herrick, 91 Russell street.  
 Sewing.—Annie W. Patten, 402 Central street.

## SUBSTITUTES.

- Mabel H. Ashcroft, 474 Lake avenue.  
 Ruth I. Leckie, 96 Brook street.  
 A. Eva O'Brien, 7 Ainsworth avenue.  
 Catherine Duran, 19 Pennacook street.  
 Marion Driscoll, 296 Lake avenue.

Hazel P. Adams, 67 Riddle street.  
 Helen A. Welch, 70 Cleveland street.  
 I. Margaret Latham, 506 Belmont street.  
 Mildred Euphemia Glynn, 323 Cedar street.

## JANITORS.

*High School.*

Janitor and Schoolhouse Agent.

Charles F. Jack, 137 West Merrimack street.

Assistant Janitor.

Esquire Priestly, 137 West Merrimack street.

Engineer.

George H. Jack, 51 Ash street.

*Amoskeag School.*

Sherman L. Flanders, 51 Front street.

*Ash-Street School.*

Michael F. Moran, 426 Union street.

*Bakersville School.*

Edwin N. Baker, 10 Brown avenue.

*Brown School.*

Octave Bergeron, 38 Joliette street.

*Chandler School.*

John S. Avery, 404 Merrimack street.

*Franklin-Street School.*

Edward A. Powers, 283 Laurel street.

*Goffe's Falls School.*

Louis P. Person, 2743 Brown avenue.

*Hallsville School.*

William H. Newry, 377 Lake avenue.

*Highland School.*

Marshall N. Badger, 600 South Beech street.

*Lincoln-Street School.*

Hugh McVicar, 376 Orange street.

*Main-Street School.*

Philip J. Rogler, 4 Gates street.

*Maynard School.*

Harvey H. Johnson, 382 Merrimack street.

*Parker School.*

William F. Henderson, 153 Bowman street.

*Pearl-Street School.*

Fred F. Whitten, 352 Pearl street.

*Rimmon School.*

Urbain Gelinas, 430 Cartier street.

*Spring-Street and Lowell-Street Schools.*

Michael A. Talty, 433 Pine street.

*Straw School.*

William A. Tufts, 41 Appleton street.

*Varney School.*

Joseph H. Buffum, 36 Boynton street.

*Webster-Street School.*

William J. Powers, 235 Hanover street.

*Wilson School.*

Dennis Sullivan, 262 Green street.

*Youngsville School.*

Caleb D. Emerson, Candia Road.

**Evening Common Schools.**

OPEN IN SEPTEMBER.

Franklin-Street Schoolhouse.—School for girls.

Lincoln-Street Schoolhouse.—School for boys and girls.

Rimmon Schoolhouse.—Two schools, one for each sex.

Spring-Street Schoolhouse.—School for boys.

## Evening Drawing School.

OPEN FROM SEPTEMBER TO MARCH.

Lowell-Street School.—Machine-drawing classes and Architectural-drawing classes meet on Monday and Thursday evenings.

## List of Text-Books.

## ELEMENTARY SCHOOLS.

*Arithmetic*.—Walton & Holmes' Series; Seaver and Walton's Mental; Southworth's Problems in Arithmetic.

*Grammar*.—Metcalf and Rafter's Language Series, Books One and Two.

*Geography*.—Frye's First Steps and Grammar School.

*History*.—Channing's Short History of the United States.

*Music*.—Natural Music Books, Harmonic Course, Laurel Music Reader. *Physiology*.—Gulick Hygiene Series.

*Readers*.—Ward through the Fourth; Cyr and New Education through the Third; Stepping Stones to Literature through the Fourth; Child Life and Wheeler First and Second; Alger Primer; Graded Literature Books Three and Four; Pratt's Exploration and Discovery; Brooks' Third to Eighth; Holmes' Fourth; Evangeline; Vision of Sir Launfal; Courtship of Miles Standish; Lamb's Tales; Hiawatha; Guerber's Story of the Thirteen Colonies; Stories of King Arthur; Abraham Lincoln for Boys and Girls.

*Bookkeeping*.—Hall's Art of Keeping Accounts.

*Speller*.—Harrington's Graded.

*Drawing*.—J. Warren Thyng's system.

*Penmanship*.—Model System by Charles Schovaneck.

## HIGH SCHOOL.

*Commerce and Industry*.—Adams' Commercial Geography; Outline History of Commerce; Webster's General History of Commerce; Ely and Wicker's Elementary Principles of Physics; Mills' Modern Business Penmanship; Williams and Rogers' Modern Illustrative Book-keeping.

*English Language*.—Woolley's Handbook of Composition; Linn's Essentials of English Composition; Thomas's Study of the Paragraph; Hitchcock's Enlarged Practice Book; Kimball's The English Sentence; Specimens of Prose Composition; English Authors; Halleck's English Literature.

*French*.—Chardenal's Complete French Course; Grammars, Fraser & Squair's, and Bruce's French; Tuckerman's Reader of French Pronunciation; François and Giround's Simple French; Guerber's Contes et Legendes; Colomba, La Tulipe Noire, Le Pêcheur d'Islande, Mlle. de

la Seglière, Le Bourgeois Gentilhomme, Madame Thèrese, La Petite Fadette, La Fée des Grèves; Le Francais et La Patrie, Scenes de la Revolution Francaise; Dictionary, Heath's.

*German.*—Bernhard's Sprach und Lesebuch; Grammars, Kayser & Monteser, Fraser & Van der Smissen's; L'Arrabiata; Edelsteine; Neffe als Onkel; Immensee; Im Faterland; Der Fluch des Schönheit; Dippold's Scientific German Reader; Wilhelm Tell; Minna von Barnhelm; Hermann und Dorothea; Gustav Adolf; Hillern's Hoher als die Kirche; Four German Comedies; Gerstacker's Irrfahrten; Rosegger's Waldschulmeister; Heine's Harzreise; Freytag's Soll und Haben; Freytag's Die Journalisten; Marchen und Erzählungen, Book One; Lern-und Lese Buch.

*Greek.*—Grammar, Goodwin's; White's First Greek Book; Goodwin and White's Anabasis; Seymour's Iliad; Woodruff's New Prose Composition.

*History.*—Channing's Student's United States; English, Cheyney's; General, Myers'; Rise and Fall of Rome, Myers'; Grecian, Myers'; Modern Ages, Myers'; Middle Ages, Myers'.

*Latin.*—Essentials of Latin, Pearson's; Grammar, A Complete Grammar, Harkness; Potter's New Method of Cæsar; Ritchie's Fabulæ Faciles; Cæsar, Gummion & Hartley's; Cicero, A. & Greenough's; Virgil, Frieze's; Latin Prose Composition, Pearson's; Ovid, Peck's; Cornelius Nepos, Lindsay's.

*Mathematics.*—Arithmetic, Wentworth's, and Moore's New Commercial; Algebra, Wells's Essentials, and Wentworth's; Geometry, Hopkins's Plane, Wells's Solid; Trigonometry and Surveying, Wentworth's.

*Music.*—(Under special direction.) The Laurel Song Book.

*Sciences.*—Physical Geography, Tarr's; Physics, Higgins' Lessons, Wentworth & Hill's; One Thousand Problems in Physics, Snyder & Palmer; C. D. and T's Laboratory Manual of Physics; Chemistry, Hessler and Smith's; Botany, Gray's, Bergen's Foundation Studies, Coulter's Plant Relations; Mineralogy and Geology, Dana's Geological Story, Crosby's Tables for Determining Common Minerals; Astronomy, Young's Elementary; Zoölogy, Colton's.

*Shorthand and Typewriting.*—Greggs' Shorthand, Sentence Method Touch Typewriting, Miller's Shorthand Reading Book, Mills' Modern Business Penmanship.

*Drawing.*—(Under special direction.)

## Directions About Closing the Schools in Bad Weather and Practice of Fire Drills.

Extract from rules:

### CHAPTER V.

SECTION 1. *The bells of the city fire alarm* will signal to close the primary and middle schools when, in the judgment of the superin-

tendent, the severity of the weather or very bad traveling may seem to require it, as follows:

*Two strokes with fifteen seconds between them.*

The *times* of striking the bells for closing the schools are:

1. FOR NO FORENOON SESSION, AT 7.30 A. M.

2. FOR NO AFTERNOON SESSION, AT 11.30 A. M. OR 1.15 P. M.

Teachers shall keep their pupils informed in regard to the foregoing regulations, and suggest to them that they listen for signals at the times named, whenever the weather and traveling are very bad.

Whenever the signals for closing the primary and middle schools are sounded, those who desire to attend school will be given the opportunity. The sounding of the signals means simply that no record of attendance will be kept, that pupils are not required to attend, but that all who attend will be provided for, although the regular class work will be suspended.

SECT. 2. Principals are required to hold fire-drills at least twice a month and thereby constantly keep pupils in such practice that the schoolhouse can be promptly and safely freed of pupils as should be done in event of the burning of the building.

## XII. School Year. 1913-1914.

Fall term opened September 8, 1913, closed December 19, 1913. Vacation of two weeks.

Winter term of twelve weeks opens January 5, 1914, closes March 27, 1914. Vacation of two weeks.

Spring term opens April 13, 1914, closes June 26, 1914. Vacation of ten weeks.

Fall term opens September 8, 1914. Continues fifteen weeks, closes December 18, 1914.



**REPORT**  
**OF THE**  
**CHIEF ENGINEER OF THE FIRE DEPARTMENT.**



# REPORT OF THE CHIEF ENGINEER OF THE FIRE DEPARTMENT.

CHIEF ENGINEER'S OFFICE.

CENTRAL STATION, NO. 12 VINE STREET.

MANCHESTER, N. H. DECEMBER 31, 1913.

*To the Honorable Charles C. Hayes, Mayor, and Board of Aldermen of the City of Manchester, N. H.:*

In compliance with law and ordinances of the city, I herewith submit my thirty-fifth annual report of the fire department, it being the sixty-eighth of this city.

The department responded to one hundred and fifteen (115) bell alarms and four hundred and forty-one (441) still alarms, making a total of five hundred and fifty-six (556) for the year, exceeding last year by fifteen (15) alarms.

One third alarm was given August 20, from box 21, for the Manchester street-Merrimack street fire, calling out the entire department for what threatened at one time to be a "conflagration," it occurring among cheaply constructed and in some cases dilapidated wooden structures. At this fire 21 lines of hose, amounting to 12,600 feet were laid and 1,224 feet of ladders used.

One second alarm was given August 26 from box 15 for a barn fire in the rear of 131 Orange street. While this fire of itself was of small magnitude, its close proximity to large tenement blocks warranted "a second."

There have been one hundred and sixty-three (163) alarms for chimney fires, one hundred and thirty-seven (137) grass and brush fires, eighty-three (83) miscellaneous fires and twelve (12) false alarms. Of the fires in buildings one hundred and thirty-four (134) have been in wooden buildings, and twenty-four (24) in stone and brick buildings.

On December 4 a telephone message from Merrimack, N. H., asked for assistance at the burning of the table factory of Mr. David R. Jones. Engine 4 with hose wagon, horses and men went by freight train and Squad A with men "went over the road." The steamer took water from the Souhegan river, and played through twenty-three hundred (2,300) feet of hose for upwards of twelve hours without stopping.

In extinguishing the fires we have used two hundred and ninety-six (296) pony extinguishers, one hundred and ninety-one (191) chemical tanks, laid one hundred and twelve thousand nine hundred and fifty (112,950) feet of hose, raised four thousand four hundred and thirty (4,430) feet of ladders.

The aggregate losses at fires attended by this department, insurance, valuations, etc., as near as was obtainable, are as follows:

Value of buildings .....	\$253,025.00	
Value of contents .....	256,450.00	
		<u>\$509,475.00</u>
Insurance carried on buildings .....	\$180,200.00	
Insurance carried on contents .....	224,600.00	
		<u>\$404,800.00</u>
Damage to buildings .....	\$26,490.96	
Damage to contents .....	23,520.24	
		<u>\$50,011.20</u>
Insurance paid on buildings .....	\$21,915.96	
Insurance paid on contents .....	26,782.43	
		<u>48,698.39</u>
Net loss over and above insurance paid.....		\$1,312.81

#### THE MANUAL FORCE

at the present time consists of sixty-six (66) permanent and one hundred and twenty-one (121) "call" men, making a total of one hundred and eighty-seven (187) members, and are assigned as follows:

	Permanent	Call	Total
1 chief engineer .....	1		1
4 assistant engineers .....		4	4
Engine Company No. 1 .....	4	7	11
Engine Company No. 2 .....	4	7	11
Engine and Ladder Company No. 3 .....	5	15	20
Engine Company No. 4 .....	4	7	11
Engine and Ladder Company No. 5 .....	5	15	20
Engine and Ladder Company No. 6 .....	5	15	20
Engine and Ladder Company No. 7 .....	5	15	20
Hose Company No. 1 .....	2	6	8
Hose Company No. 2 .....	2	6	8
Hose Company No. 3 .....	2	6	8
Combination No. 2 .....	2	6	8
Aërial Truck No. 1 .....	3	9	12

Chemical No. 1 .....	3	2	5
Auto-Comb. Chemical and Hose Wagon...	8		8
Spare (Sub.) Members .....	6		6
Driver Supply Wagon .....		1	1
Chauffeur Chief's Automobile .....	1		1
Superintendent Fire-alarm Telegraph....	1		1
Operators Fire-alarm Telegraph .....	3		3
	<hr/>		
	66	121	187

In addition to the foregoing, whenever the new station is completed on South Main street, on the south side of the Squog river, for Truck 8, it will necessitate an additional force of eight (8) men, four (4) of whom should be permanent and the balance "call" men.

THE APPARATUS

consists of 7 steam fire engines, 11 hose wagons (two combination chemicals, one with ladders attached), 3 horse-drawn hook and ladder trucks, 1 aerial truck (carrying other ladders), 1 Robinson automobile truck, 1 Lafrance automobile truck (to go into service early in the year), 1 chemical engine, with two sixty-gallon tanks, 1 automobile combination wagon, with forty-gallon tank (Flying Squadron), 9 exercise wagons, 1 supply wagon, 2 spare one-horse hose carriages, 1 fire-alarm telegraph repair wagon, 1 chief's automobile, 1 chief's wagon, located as follows:

CENTRAL STATION: Two first size Amoskeag steamers, each with one-horse hose wagon attached, 1 three-horse hitch, 85-foot aerial truck, 1 automobile combination chemical and hose wagon, 1 two-horse hose wagon, 1 double (sixty gallons) tank chemical engine, 1 supply wagon, 1 exercise wagon, 1 chief's automobile, 1 chief's wagon, 1 repair wagon for fire-alarm telegraph.

NORTH MAIN-STREET STATION: One second size Amoskeag steamer (three-horse hitch), 1 two-horse combination chemical and hose wagon, 1 exercise wagon.

McGREGORVILLE STATION: One second size Amoskeag steamer, 1 two-horse hose wagon, 1 two-horse hook and ladder truck, 1 exercise wagon.

LAKE AVENUE STATION: One first size Amoskeag steamer, with three-horse hitch, 1 two-horse hose wagon, 1 motor driven hook and ladder truck, 1 exercise wagon, 1 one-horse hose carriage (in storage).

WEBSTER-STREET STATION: One third size Amoskeag steamer, 1 two-horse hose wagon, 1 two-horse hook and ladder truck, 1 exercise wagon.

MAPLE-STREET STATION: One two-horse hose wagon, 1 exercise wagon.

**SOUTH ELM-STREET STATION:** One two-horse combination hose wagon, carrying ladders, 1 exercise wagon.

**WILSON HILL STATION:** One two-horse combination chemical and hose wagon, 1 exercise wagon, 1 one-horse hose carriage (in storage). Motor truck No. 8 is also stored here and will go into service early in the year, when the new station on South Main street is completed.

**SOMERVILLE-STREET STATION:** One second size Amoskeag steamer (with three-horse hitch), 1 two-horse hose wagon, 1 hook and ladder truck, with a forty-gallon chemical tank and 200 feet chemical hose, 1 exercise wagon.

In addition to the foregoing there is 1 hose carriage in Amoskeag on Front street, 1 hose carriage corner Massabesic street and Mammoth road, 1 hose carriage, Goffe's Falls, each manned by volunteers, 5 sleds used as hose sleds in the winter.

Engine No. 2 has had a new boiler, its pumps and machinery thoroughly overhauled, and its hose wagon (combination) has had new wheels, band brakes and rubber tires, its chemical tanks repaired, and all are now in first-class condition.

Ladder No. 6 has had new wheels and axles, rubber tires, band brakes, and some new truss-ladders.

Engine No. 7 (which was old No. 3) is in the repair shop for a new boiler, its pumps and machinery to be repaired, and the engine to be repainted.

#### THE BUILDINGS.

The new part of the Central station, strictly fireproof in construction, was completed and ready for occupancy during the month of May.

The house for truck No. 8 on South Main street will be ready for occupancy early in the year.

The other buildings are in fair repair, but could be improved if the appropriations were more liberal.

#### THE HORSES.

There are now fifty-three (53) horses in the Department. One of the horses of hose No. 3, in responding to a still alarm on the evening of July 3, collided with an ice-cart, breaking one of its legs, and the horse had to be shot.

At an alarm from box 82, Saturday, December 20, one of the horses of the hose wagon of Engine and Ladder No. 5, while coming down Elm street, dropped dead.

Six (6) new horses have been bought during the year and seven (7) disposed of. Those now in service, with but few exceptions, are in good condition, and these will be exchanged whenever suitable ones are found to replace them.

THE FIRE-ALARM TELEGRAPH.

In reconstructing this important branch of the service we have nearly all of our wires in the compact part of the city under ground, having about eight (8) miles of underground cable and two (2) miles of aerial cable—thus affording much better protection to our wires than ever before.

Our Central-Office system consists of one 32-circuit charging board, one 16-circuit operating board, one 36-circuit protector board, one 12-circuit joker board, one 16-circuit automatic repeater, one 6-circuit tapper repeater, one automatic transformer, one manual transmitter, one automatic time stamp, two 6-pen Nonpareil registers, four 4-pen Nonpareil registers, one motor generator, seven hundred fifty (750) cells storage battery.

COST OF FIRE-ALARM SYSTEM AS AT PRESENT INSTALLED.

Fire-alarm apparatus .....	\$30,000.00
Fire-alarm cable .....	18,452.50
Overhead construction .....	1,333.54
Inside construction .....	654.69
Joker boards .....	70.00
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Total .....	\$50,510.73

FIRE-ALARM APPARATUS IN USE PREVIOUS TO THE INSTALLATION OF NEW SYSTEM IN 1913 AND IN USE IN CONJUNCTION WITH THE SAME.

100 fire-alarm boxes @ \$125.....	\$12,500.00
3 small tower strikers @ \$400.....	1,200.00
5 large tower strikers @ \$600.....	3,000.00
1 whistle machine @ \$475.....	475.00
2 tower bells .....	900.00
Individual tapper system .....	4,000.00
6 16" gongs @ \$125.....	750.00
6 visible indicators @ \$125.....	750.00
9 combination gong and indicators @ \$225.....	2,025.00
2 10" gongs @ \$30.....	60.00
6 small gongs and indicators @ \$145.....	870.00
Fire-alarm accessories in stations.....	820.00
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	\$27,350.00
New installation in 1912 and 1913.....	50,510.73
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Total valuation of fire-alarm system.....	\$77,860.73

## THE FIREMEN'S RELIEF ASSOCIATION.

Owing to the many accidents occurring to its members the expenses have been the largest of any year since its organization, and while the donations have been very liberal, still they have been only one half the amount paid for benefits. Its members desire to tender their grateful thanks to the generous donors for their contributions. The following is the financial statement for the year:

Balance on hand February 11, 1913.....	\$13,890.07
Received for membership dues.....	217.00
Dividends on bank deposits.....	490.08
Discount on bills.....	2.74
Donations:	
Jeremiah Hodge .....	55.00
Mrs. Minna Wagner.....	25.00
James F. Baldwin, superintendent U. S. B. & S. Co....	25.00
James A. Scully.....	10.00
James W. Hill Co.....	25.00
"A friend" (H.).....	10.00
Louis Hoffman, Merrimack.....	50.00
Town of Merrimack.....	100.00
David R. Jones, Merrimack.....	100.00
William McElroy .....	20.00
Solomon Sullivan .....	10.00
Mrs. George Hosser .....	25.00
Mrs. David Cross .....	25.00
Roger G. Sullivan .....	25.00
Harry G. Clough .....	50.00
F. E. Green, in memory of Miss Sarah J. Green.....	100.00
Merchants National Bank .....	100.00
Leslie M. Folsom .....	100.00
Peter Fleming .....	10.00
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	\$15,464.89
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By cash paid claims, hospital and doctors' bills as follows:

Charles Edgar, claim and doctor's bill.....	\$205.00
Louis Loiselle, claim, hospital and doctor's bill (bal.)	723.64
Capt. George A. Cann, claim, hospital and doctor's bill	391.15
Clarence A. Whitcomb, doctor's bill.....	5.50
E. F. Cutler, claim and doctor's bill.....	38.50
Joseph St. Germain, doctor's bill.....	2.50
John W. Gott, claim and doctor's bill.....	56.00
Edward Sargent, claim, hospital and doctor's bill....	204.00



Frank W. Tebbetts, claim and doctor's bill.....	67.50
John H. Coté, claim and doctor's bill.....	32.50
George Taylor, doctor's bill.....	2.00
John J. Kearns, claim and doctor's bill.....	19.00
Thomas W. Lane, Jr., doctor's bill.....	35.00
Alvin A. Drescher, doctor's bill.....	3.00
Mrs. M. D. Perkins, funeral benefit.....	50.00
Oscar P. Stone, secretary.....	25.00
John F. Seaward, treasurer.....	25.00
W. L. Parkhurst, typewriting amendments.....	1.15
Morgan & Reidel, printing.....	4.25
Total .....	<u>\$1,710.69</u>
Leaving a balance to new account.....	<u><u>\$13,754.20</u></u>

## CONCLUSION.

On the eighteenth of October last marked the first instance of replacing motor-driven for horse-drawn apparatus in this department, when the Robinson motor truck was installed in place of the three-horse-drawn Truck 3, at Lake Avenue station.

July 17, a forty-horse-power, four-cylinder "Rambler" automobile was put into commission as the chief's car, and for getting there quick is a great improvement over the horse. It covered 3,051.3 miles up to the close of the year. This makes four pieces of motor apparatus in the department at the present time, and, while I am of the opinion that it would be a good investment for additional motor-drawn apparatus, I do not think it a safe policy to entirely motorize this or any other department in this section of New England, as such apparatus is at present constructed. I would, however, recommend fitting some of our hose wagons to chasses the coming year, as with but few exceptions they are in too good condition to be thrown away.

I would recommend that an iron tank for gasoline be put under ground at Engine and Ladder No. 3, as I consider it hazardous to have it in cans in so public a place.

I would recommend the purchase of five thousand (5,000) feet, or more, of rubber-lined fabric hose at once, as our supply is very low.

I would recommend attaching turret pipes (or water-guns) to all of our hose wagons.

I would strongly recommend the purchase of a motor wagon for responding to brush fires—thus relieving our Flying Squadron from this duty, and depriving the city of the protection it should afford while absent on such duty, besides subjecting it to the rough usage it must receive while responding to alarms so remote from the city limits as it oftentimes occurs.

A wagon for such a purpose could be used to good advantage as a supply wagon, or repair wagon on the fire-alarm, and could be furnished for about twenty-six hundred dollars (\$2,600), and I think it would prove a saving investment to the city.

I would recommend a special appropriation yearly for putting more of our fire-alarm wires under ground until all are so placed.

Now that we have our own wires in the compact part of the city under ground, there is no excuse for not compelling all companies or individuals to place theirs there also. Overhead wires have always been a menace to life and property and should be removed as fast as possible.

In closing, I wish to tender my thanks to the deputy chiefs, the officers and members of this department for the willing and faithful manner with which they have performed their respective duties, and their hearty support at all times,—to His Honor Mayor Hayes and members of the Committee on Fire Department, and the City Councils for the interest manifested in the welfare of the department, and to Chief Healy and members of the police force for their efficient assistance in time of fire, and at all times whenever called upon. May the friendly feeling between the two departments ever continue.

Respectfully submitted,

THOMAS W. LANE,

*Chief of Department.*

#### Number and Location of Fire-Alarm Boxes and Keys.

A KEY IS ATTACHED TO EACH BOX (with few exceptions) and can be had by breaking the glass.

No. 3. Corner Elm and Valley streets. Keys at offices of gas-works, county jail, Manchester Coal & Ice Company's sheds, and the Hutchinson shop building.

No. 4. Corner Elm and Granite streets. KEYLESS.

No. 5. Corner West Merrimack and Elm streets. KEYLESS.

No. 6. City Hall, corner of Elm and Market streets. KEYLESS.

No. 7. Police station, corner of Manchester and Chestnut streets. KEYLESS.

No. 8. Corner Elm and Hollis streets. KEYLESS.

No. 9. Corner of Elm and Webster streets. Keys at residence of J. Freeman Clough, and station of Engine and Ladder No. 5.

No. 12. Corner of North and Pine streets. Keys at residence of Mrs. Walter A. Green and O. D. Knox.

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

No. 14. Corner of Prospect and Union streets. Keys at residences of Mrs. W. Ireland and D. J. Adams.

No. 15. Corner of Pearl and Chestnut streets. Keys at residence of Henry W. Shannon.

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

No. 17. Corner of Amherst and Beech streets. KEYLESS.

No. 18. Corner of Merrimack and Maple streets. KEYLESS.

No. 19. Corner of Lowell and Nashua streets. KEYLESS.

No. 21. Corner of Merrimack and Pine streets. Keys at E. R. Monette's drug store, A. L. Walker's office, and residence of James F. Gillis.

No. 23. Corner of Central and Beech streets. Keys at the residence of the late Eben T. James.

No. 24. Corner of Hall street and Lake avenue. KEYLESS.

No. 25. Corner Concord and Ashland streets. Keys at residences of George F. Lincoln, Mrs. A. D. Gooden, and James R. Straw.

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

No. 27. Corner of Belmont and Amherst streets. Keys at residences of E. S. Fletcher, Dr. Walter T. Crosby and Mrs. William Carr.

No. 28. Corner of Merrimack and Beacon streets. Keys at residences of A. L. Garmon and H. B. Fairbanks.

No. 29. Corner of Hall and East High streets.

No. 31. Corner of Canal and Hollis streets. American Locomotive Company'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 mills, Langdon watchroom and electric light station.

No. 34. Amoskeag Mills, Northern Division. Key at watchroom.

No. 35. Stark Mills. Key at watchroom.

No. 36. Corner Elm and Sagamore streets. KEYLESS.

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

No. 41. Amoskeag Mills, Central Division. Keys at watchroom.

No. 42. Amoskeag Mills, Southern Division. Key at watchroom.

No. 43. Amoskeag Mills, Southern Division. Key at watchroom.

No. 45. Corner Canal and West Auburn streets. Keys at office in building and at Freight depot.

No. 46. Corner of Elm and West Central streets. KEYLESS.

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

No. 52. Granite Square, Main street, West Manchester. KEYLESS.

No. 53. Corner of South Main and Mast streets. KEYLESS.

No. 54. Corner of A and South Main streets. Keys at residences of Lord sisters, Neil Fullerton, and grocery store opposite box.

No. 56. Mast street, opposite U. S. bobbin shop. Keys at Superintendent 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 residence of C. H. George and F. W. Towle's store.

No. 61. Hose No. 3, South Elm street. Keys at hose house.

No. 62. Manchester Wool & Leather Company's, Brown avenue. Keys at tannery, the Edwin Kennedy house and Hose 3.

No. 63. Corner Beech street and Titus avenue. Keys at residences of C. L. Wenberg and George H. Dunbar, Oscar F. Anderson and Elizabeth Gage.

No. 64. Corner Pine and Willow streets. Keys Cohas Shoe factory, Stevens Bros.' Marble Works, and residences of Nicholas Bolton and Joseph N. Auger.

No. 65. Corner of Calef road and Elmhurst avenue. Keys at residences of Harry Leonard, F. L. Auger, J. T. Sweeney, Cornelius Sullivan, John O'Brien and Martin Laughlin.

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

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

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

No. 74. Corner of Beech and Hayward streets. Key on box.

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

No. 82. Corner of Elm and Lowell streets. KEYLESS.

No. 91. Corner of Webster and Beech streets. Keys at Children's Home and residences of George E. McClintock, Solomon Johnson and M. E. Sanctuary.

No. 92. Corner of Union and Clarke streets. Keys at residences of Mrs. Julia B. Bradford, E. H. Nutting, and C. E. Page.

No. 93. Corner of Elm and Carpenter streets. Keys at residences of Mrs. A. H. Weston and Mrs. George D. Towne.

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

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

No. 114. Corner of Pearl and Ash streets. Keys at residences of John J. Bennett and Mrs. Harriet L. Healey and Ash-street school-house.

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

No. 116. Corner Salmon and Ash streets. Keys at Masonic Home.

No. 117. Corner of Sagamore and Russell streets.

No. 131. Emergency box, to be substituted when any box is out of repair.

No. 211. Corner of Oakland and Woodland avenues. Keys at residences of Oliva Lemieux, Albert Lasalle, Simeon Lavigne.

No. 212. Corner of Massabesic and Cypress streets. Keys at the office of the shoe factory and residences of Charles C. Chase, G. W. Dearborn, M. V. B. Garland, and the Walter Cody block.

No. 213. Beech street and Portsmouth Railroad. Keys at office of Derryfield Lumber Company.

No. 214. Corner of Wilson and Valley streets. Keys at office and watchroom of Elliott Manufacturing Company.

No. 215. Corner of Lincoln and Silver streets. Keys at offices of Hoyt and McElwain's shoe shops and workshop 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 and Mammoth roads. Keys at residences of L. M. Streeter, William Gadbois and Charles P. Still.

No. 218. Engine and Ladder Company No. 7, Somerville street. Keys at residences of Mrs. George Hall and George Kay, and at house of Engine and Ladder No. 7.

No. 219. Corner of Page street and Portsmouth Railroad. Keys at Eaton Heights shoe shop, and residences of Charles A. Merrill, Mrs. Elizabeth B. Rand, and Mrs. John P. Young.

No. 221. Corner of Taylor street and Holly avenue. Keys at residences of T. B. Stevens, 109 Taylor street, W. O. Corbin, 443 Holly avenue, and A. J. Prescott, 502 Holly avenue. (No key on box.)

No. 223. Corner of Mammoth and Island Pond roads. Keys at residences of John Porter, George W. Gilmore, and Lorenzo J. Young. (No key on box.)

No. 224. Corner of Belmont and Grove streets. Keys at residences of John A. Adams, Joseph Quirin and Mrs. H. G. Walker.

No. 241. Corner of Lake avenue and Canton streets.

No. 242. Merrimack and Wilson streets. Keys at Capt. C. R. Merrill's and Engine and Ladder Company No. 3.

No. 243. Corner Candia road and Sherburne street. Keys at residences of Fred L. Watts, Alex. Oliver, Andrew J. Murray and Mrs. S. L. Cummings. (No key on box.)

No. 244. Corner Hanover street and Mammoth road. Keys at residences of Mrs. Julia M. Penniman, G. H. Arthur, R. I. Stevens, H. Mannering, W. S. Sanborn, Frank S. Young and H. J. Higginbotham.

No. 261. Pearl and Ashland streets. Keys at schoolhouse and residences of C. E. Rose, S. W. Bascom and Charles W. Cheney.

No. 263. Corner Bridge street and Mammoth road. Keys at residences of Hiram D. Turner, Andrew G. Johnson, A. D. Sherer, Harvey T. Corey, and city farm. (No key on box.)

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

No. 313. Corner of Amory and North Main streets. KEYLESS.

No. 314. Corner Amoskeag and First streets, 'Skeag. Keys at Manchester Stocking Company and Riverside hose house.

No. 315. Old Brick store, 'Skeag. Keys at Riverside hose house and D. Jameson's residence.

No. 321. Corner of Notre Dame avenue and Wayne street. Keys at Holy Angels convent, the Brothers' school, and residences of E. H. Doherty and the parish priest.

No. 323. Corner of Putnam and Bartlett streets. Keys at P. J. Archambeault's bakery and residence of Mitchell Barry.

No. 324. Amory and Laval streets.

No. 325. Kelly and Cartier streets.

No. 326. Corner of Amory and Rimmon streets. Key at Engine and Ladder No. 6.

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

No. 512. Corner of Notre Dame avenue and Adams street. West Side.

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

No. 521. Corner of Parker and Winter streets.

No. 541. Corner Boynton and Allen streets. Keys at residences of Herbert S. Dow, Patrick J. Connor, Charles J. Tinker and Benjamin J. Mack. (No key on box.)

No. 542. Corner of Second and West Hancock streets. Keys at office of the Crafts shoe shop.

No. 543. Corner of Boynton street and Glenwood avenue. Keys at residences of John Schiller, Edouard Gendron, Onesime Demers, and Augustin Denis.

No. 571. Shirley street and Rockland avenue. Keys at residences of J. E. Fitzgerald, G. W. Bachelder, M. R. Groeppner, and G. W. Chase. (No key on box.)

No. 611. Corner of Hancock street and Boston & Maine Railroad. Keys at offices of True W. Jones' Brewery and Manchester Slaughtering and Rendering Works.

No. 711. Corner of Union and Grove streets.

No. 911. Corner of Union and Trenton streets. Keys at residences of Charles M. Floyd, W. B. Hunt, C. S. Boynton, Mrs. William R. Varick, and Bixby Bros.' greenhouse.

No. 912. Corner of North River road and West Clarke street.

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 Fire-Alarm Headquarters, denoted by one stroke on the fire-alarm; also, a test signal will be given at 8.30 P. M.

**Fire Department Telephone Calls.**

Flying Squadron, Central Station .....	
Engine No. 2 .....	
Engine and Ladder No. 3 .....	
Engine and Ladder No. 5 .....	
Engine and Ladder No. 6 .....	
Engine and Ladder No. 7 .....	
Hose No. 2 .....	3000
Hose No. 3 .....	
Combination No. 2 .....	
Chief Engineer Lane's office .....	
Chief Engineer Lane's house .....	
Charles H. French, Supt. of Fire-Alarm.....	
Charles R. Hammond, Chief's Chauffeur.....	
Deputy Chief Provost's store .....	1342
Deputy Chief Provost's house .....	1151-W
Deputy Chief Fitzsimmons' house .....	1359
Deputy Chief Merrill's house .....	787-2
Deputy Chief Seward's house .....	1889-M

**Instructions to Keyholders and Citizens.**

1. Any person discovering or receiving positive information of a fire, should go to the nearest alarm box, the key of which is in a round box on the right-hand side of the alarm box, except the keyless style of box. Keys are also in the hands of all regular police, and generally of persons at the corner or nearest house to the location of a box.

2. To give an alarm from a box with key: break glass, insert key, unlock and open door, pull hook down once (without jerking) and let go. Do not try to remove the key, as it is locked in by a trap lock, and can be removed only with a release key, which is carried by each of the engineers, and they will, as soon as convenient, release and return it.

3. To give an alarm from a keyless box: turn handle on door to the right as far as it will go, which will ring a bell on the inside of the door and unlock the door. This does not give the alarm; the hook inside must be pulled as in the foregoing paragraph.

4. All persons giving an alarm are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box and give the alarm. You will know by the clicking that the box is working and that the stations are receiving the alarm, and do not ring another alarm just because you do not hear the outside bells striking (see paragraph 8). Do not give a second alarm without orders from an engineer or officer in charge of fire.

5. Never give an alarm for a fire seen at a distance. Never touch a box, except to give an alarm of fire. Give an alarm for no other cause than an actual fire. Don't give an alarm for a chimney fire.

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

8. When a box is pulled the alarm is transmitted immediately to the stations on fast time. The outside bells and whistle are struck one-half minute later.

9. Alarms are transmitted upon all the "fast" alarm circuits, thus: Box 6, six blows, one second apart, repeated twice. Box 212, two blows, pause of  $2\frac{1}{2}$  seconds, one blow, same pause, two blows, 2—1—2 repeated twice. Alarms are transmitted upon all the "slow" alarm circuits, upon which are the tower bells and whistle, thus: Box 6, six blows,  $2\frac{1}{2}$  seconds apart, repeated twice. Box 212, two blows, pause of  $6\frac{1}{4}$  seconds, one blow, same pause, and two blows, 2—1—2, repeated twice.

#### SPECIAL CALLS ON FIRE-ALARM.

When more apparatus is wanted, without giving second and third alarms, the following special calls will be given:

2—1 for Engine 1.	3—5 for Truck 5.
2—2 for Engine 2.	3—6 for Truck 6.
2—3 for Engine 3.	3—7 for Truck 7.
2—4 for Engine 4.	3—8 for Truck 8.
2—5 for Engine 5.	4—1 for Hose 1.
2—6 for Engine 6.	4—2 for Hose 2.
2—7 for Engine 7.	4—3 for Hose 3.
1—1—1 for Aërial Truck.	4—4 for Combination 2.
3—3 for Truck 3.	

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

#### 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.



## OUT-OF-TOWN CALL.

For a fire out of the city or brush fire, 2—2—2, 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.

The 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 SIGNALS.

One blow at 12.30 noon. Two blows at 8.30 P. M.

## 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.

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**Engine Whistle Signals.**

The following code of signals will be observed by members of the department:

FOR CAPTAIN, or officer in command of company, one long whistle.

FOR COAL, two long whistles followed by as many short whistles as indicate the number of the engine.

To LIMBER UP, three long whistles.

**Entering a Building With a Line of Hose.**

All steamer and 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, due care being exercised as to whether their services are needed.

Extra care should be exercised by hosemen of steamer companies in using "shut-off nozzles, SHUTTING OFF TO BE SLOW AND GRADUAL WHEN STEAMER IS WORKING.

**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 a deputy chief engineer (or the captain in charge of his company), nor 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 "days 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.*

Substitutes running for and answering the names of any call man shall be entitled to the same pay, *pro rata* as the call man for whom they answer for the time they substitute, and the clerks of the several companies shall keep said substitutes' time and notify the regular call man of the amounts due from him and pay said amount to the substitute performing said service.

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

The hour of leaving will be 7 o'clock A. M., and members will not leave their stations 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 dates of their "days 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 while members are in town, they will be expected to report for duty on their days off.

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**List of Alarms and Fires Responded to during 1913.  
Loss and Insurance.**

STILL. Wednesday, January 1, 2.10 P. M. Chimney fire in four-story brick block, No. 22 Concord street, owned by Edward P. Desrochers, and occupied by Frank Dietch and others. Chemical engine responded. Used 1 pony extinguisher.

STILL. Friday, January 3, 4.45 P. M. Chimney fire in two-and-half-story four-tenement wooden block, No. 932 Clay street, owned and occupied by Michael Davin. Truck 7 responded. Used 1 pony extinguisher.

STILL. Friday, January 3, 6.30 P. M. Chimney fire in three-and-half-story six-tenement wooden block, No. 607 Prescott street, owned by John Beaudry, and occupied by Albert Beard and others. Truck 7 responded. Used 3 pony extinguishers.

STILL. Friday, January 3, 6.45 P. M. Chimney fire in two-story wooden dwelling, No. 668 Massabesic street, owned and occupied by Joseph Morin. Truck 7 responded. Used 1 pony extinguisher.

STILL. Friday, January 3, 7.15 P. M. Chimney fire in two-and-half-story wooden dwelling, No. 174 Cedar street, owned and occupied by Patrick Kelley. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, January 3, 8.25 P. M. Chimney fire in cottage house, No. 84 Kingston street, near Goffstown car line, owned and occupied by Louis Chartrand. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, January 4, 6.45 A. M. Chimney fire in two-and-half-story wooden tenement house, No. 26 Dover street, owned by Henry E. Burnham, and occupied by four families. Members of Engine 2 responded with wagon. Used 1 chemical tank.

STILL. Saturday, January 4, 1.45 P. M. Chimney fire in three-story wooden block, No. 17 Martin lane, owned by Gordon Woodbury, and occupied by twelve families. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Sunday, January 5, 9.00 A. M. Chimney fire in three-story wooden tenement block, No. 346 North Main street, owned by Max Leinsing, and occupied by him and others. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

Box 4. Monday, January 6, 10.17 P. M. Four-story brick block, No. 617 Elm street, owned by the Daniel Connor estate, and occupied by Joseph Dugre as a liquor saloon. Cause, overheated stove. Extinguished with chemicals. Box pulled by James S. Long, call fireman of Engine and Ladder 7. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3. Value of building, \$20,000; damage, \$300; insurance, \$15,000; insurance paid, \$300. Value of contents, \$3,500; damage, \$250; insurance, \$2,500; insurance paid, \$250.

Box 21. Monday, January 6, 10.43 P. M. Two-story wooden dwelling, rear of No. 122 Central street, owned by Mrs. Emma Merrill of Londonderry, N. H., and occupied by Thomas Welch. Cause, breaking of kerosene lamp thrown by Welch, who was so severely burned about the face and hands that he died a few hours later. Box pulled by Robert Orr. Companies responding: Engines 1, 2, 4; Hose 1, 2; Combination 2; Squad A; Trucks 3, 5. Value of building, \$5,000; damage, \$190; insurance, \$2,000; insurance paid, \$190. Value of contents, \$200; damage, \$50; no insurance.

STILL. Tuesday, January 7, 8.25 P. M. Chimney fire in two-and-half-story wooden dwelling, No. 373 Bartlett street, owned by William Martin, and occupied by two families. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Wednesday, January 8, 7.00 P. M. Chimney fire in two-and-half-story wooden dwelling, No. 26 Wayne street, owned by E. L.

Gresley, and occupied by two families. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Thursday, January 9, 7.35 A. M. Three-story brick tenement block, No. 62 Mechanic street, owned by the Stark Mills, and occupied by Floranie Lavallee. Cause, overheated chimney ignited partition. Squad A responded. No services required.

STILL. Thursday, January 9, 10.27 A. M. Two-story wooden dwelling house, No. 602 Hall street, owned by Fannie Moulton, and occupied by E. E. Greer. Cause, thawing water pipes. Squad A responded. Used 1 pony extinguisher.

Box 71. Thursday, January 9, 7.56 P. M. Chimney fire in three-story wooden tenement building, No. 136 Spruce street, owned by M. Floro Cassis, and occupied by Nisas Columbus. Box pulled by a little girl. Companies responding: Engines 1, 3, 4, Chemical; Hose 1, 3; Squad A; Trucks 1, 3. Used 1 pony and 1 chemical tank.

STILL. Sunday, January 12, 7.25 A. M. Four-story brick block, No. 41 Manchester street, owned by Joseph P. Chatel, and occupied by Delia Garvers, as a lodging house. Henry Walker, a transient roomer, was found dead in room on upper floor, and bed nearly consumed, and had the appearance of being caused by smoking cigarettes in bed. Squad A responded. Used 1 chemical tank.

STILL. Sunday, January 12, 2.17 P. M. Chimney fire in two-story wooden tenement house, No. 55 Kidder street, owned by the Amoskeag Manufacturing Company, and occupied by Edward Quirk. Squad A responded. Used 1 pony extinguisher.

Box 52. Sunday, January 12, 5.55 P. M. Three-and-half-story wooden tenement and mercantile block, Nos. 18-20 North Main street, owned by Frank P. Johnson, and occupied by J. Fournier (in whose tenement fire started) and others. Cause, cigarette. Extinguished with chemicals. Box pulled by J. Fournier. Companies responding: Engines 2, 6; Hose 1; Squad A; Trucks 1, 6. Value of building, \$4,000; damage, \$75; insurance, \$4,000; insurance paid, \$75. Value of contents, \$300; damage, \$15; no insurance.

STILL. Monday, January 13, 7.10 A. M. Chimney fire in dwelling house on Hooksett road, owned and occupied by Albert Bascomb. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, January 14, 10.40 A. M. City dump on Log street, West Side, on land of the West Side Lumber Co. Members of Engine 2 responded with wagon. Used 1 chemical tank.

Box 71. Sunday, January 19, 12.54 A. M. An unoccupied cottage, No. 140 East Spruce street, owned by Rachel Perolman. Cause, overheated stove, which was being "rushed" to "dry out" the tenement. Box pulled by T. Hebert. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3. Value of building, \$1,500; damage, \$200; insurance, \$1,000; insurance paid, \$200.

STILL. Monday, January 20, 12.50 P. M. Four-story brick block, the

Eagle House, No. 498 Chestnut street, owned by T. Pariseau, and room where fire occurred occupied by Joseph Cleval. Cause, snapping match set fire to a couch. Damage slight. Squad A responded. Used 1 chemical tank.

STILL. Monday, January 20, 1.05 P. M. Chimney fire in four-story wooden tenement house, No. 194 Merrimack street, owned by the Manchester Realty Co., and occupied by J. B. Hebert. Squad A responded with wagon. Used 1 pony extinguisher.

STILL. Tuesday, January 28, 11.43 A. M. Chimney fire in dwelling house, No. 97 Baker street, owned and occupied by Mrs. M. J. Johnson. Hose 3 responded. Used 2 pony extinguishers, 30 feet of ladders and 75 feet of garden hose.

STILL. Friday, January 31, 5.30 P. M. Chimney fire in three-story wooden block, No. 56 McGregor street, owned by Frank P. Johnson, and occupied by several families. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Saturday, February 1, 12.15 A. M. Chimney fire in three-story wooden tenement block, No. 243 Wilson street, owned by George Blanchet, and occupied by six families. Truck 7 responded. Used 2 pony extinguishers.

STILL. Saturday, February 1, 2.30 P. M. Chimney fire in two-and-half story wooden dwelling, No. 94 McGregor street, owned by E. M. James, and occupied by Mrs. Fred Gelinis. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Saturday, February 1, 4.01 P. M. Chimney fire in two-story wooden dwelling, No. 24 Birch street, owned by Mary Langin, and occupied by Celina Broder. Squad A responded. Used 2 pony extinguishers.

STILL. Saturday, February 1, 5.08 P. M. Chimney fire in two-and-half story wooden dwelling, No. 23 Myrtle street, owned by Horace Holmes, and occupied by John Fitzpatrick. Squad A responded. Used 1 chemical tank.

STILL. Saturday, February 1, 5.40 P. M. Chimney fire in two-and-half story wooden tenement house, No. 64 Winter street, owned by Mrs. J. B. Pettengili, and occupied by four families. Members of Engine 2 responded with wagon. Used 1 chemical tank.

STILL. Saturday, February 1, 6.12 P. M. Chimney fire in dwelling house, rear No. 60 Plummer street, owned by James G. Hayward, and occupied by Roland Phillips. Hose 3 responded.

STILL. Sunday, February 2, 3.00 A. M. Chimney fire in three-story wooden block, No. 206 North Main street, owned by Eugene Dubois, and occupied by Majorique Gelinis and others. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

STILL. Sunday, February 2, 12.15 P. M. Chimney fire in two-story wooden dwelling, No. 377 Myrtle street, owned and occupied by D. J. Clifford. Squad A responded. Used 2 ponies and 1 chemical tank.

Value of building, \$2,000; damage, \$26.48; insurance, \$1,200; insurance paid, \$26.48. No damage to contents.

STILL. Sunday, February 2, 4.40 P. M. Grass fire on North River road, on land owned by Dr. L. Melville French. Cause, sparks from Boston & Maine locomotive. Members of Engine and Ladder 5 responded with wagon. Used 4 pony extinguishers.

Box 21. Sunday, February 2, 8.38 P. M. Chimney fire in three-story wooden dwelling house, No. 62 Laurel street, owned by Mrs. Mary Kane, and occupied by Eugene McLeod. Box pulled by citizen. Companies responding: Engines 1, 3, 4, Chemical; Hose 1; Squad A; Trucks 1, 3.

STILL. Monday, February 3, 9.30 A. M. Waste-box in rear of tenement block, No. 496 Chestnut street, owned by T. Pariseau, and occupied by Joseph Ceval. Cause, hot ashes. Squad A responded. Used 1 chemical tank.

STILL. Monday, February 3, 5.07 P. M. Four-story brick block, No. 298 Pine street, owned by Mrs. Etta Topping, and occupied by Charles George and others. Cause, cigarette. Damage slight. Squad A responded. Used pail of water.

STILL. Monday, February 3, 6.05 P. M. Chimney fire in two-and-half-story wooden tenement block, No. 446 Second street, owned by John Molloy, and occupied by him and others. Members of Engine 2 responded with wagon. Used 1 chemical tank.

STILL. Tuesday, February 4, 10.07 P. M. Cottage house, No. 444 Central street, owned and occupied by Oscar Silver. Slight fire in closet, caused by a cigarette. Damage slight. Members of Engine and Ladder 3 responded with wagon. Used 1 pony extinguisher.

STILL. Wednesday, February 5, 12.25 P. M. Chimney fire in two-story wooden dwelling, No. 711 Hanover street, owned and occupied by Harry Mannering. Squad A responded. Used 1 pony extinguisher.

Box 45. Wednesday, February 5, 9.15 P. M. One-story wooden building, No. 59 West Cedar street, owned by J. H. Parmerton, and occupied by E. J. Brown & Co., as a wholesale grocery store. Cause, unknown. Box pulled by G. D. Woodbury. Companies responding: Engines 1, 2, Chemical; Hose 1, 3; Squad A; Truck 1. Value of building, \$2,000; damage, \$110; insurance, \$1,500; insurance paid, \$110. Value of contents, \$700; damage, \$219.10; insurance, \$700; insurance paid, \$219.10.

STILL. Thursday, February 6, 8.11 A. M. Chimney fire in two-story wooden dwelling, No. 312 Goffstown road, owned and occupied by Nat Hammond. Squad A responded. Used 2 pony extinguishers.

Box 217. Thursday, February 6, 3.49 P. M. Cottage house, No. 52 Oakland avenue, owned and occupied by Jesse L. Hill. Cause, thawing water pipes. Box pulled by citizen. Companies responding: Engines 3, 7; Hose 2; Combination 2; Squad A; Trucks 3, 7. Value of building, \$3,000; damage, \$406; insurance, \$2,000; insurance paid, \$406. Damage to contents, slight.

STILL. Thursday, February 6, 8.35 P. M. Chimney fire in two-story wooden tenement block, No. 47 Church street, owned by Tom W. Robinson, and occupied by J. B. Morin and others. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, February 7, 8.59 P. M. Chimney fire in two-story wooden dwelling, No. 182 Laurel street, owned by E. G. Flanders, and occupied by John Whiting. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, February 8, 6.30 A. M. Chimney fire in three-story wooden tenement house, No. 661 Somerville street, owned and occupied by Francois Dupuis. Truck 7 responded. Used 2 pony extinguishers.

STILL. Saturday, February 8, 2.55 P. M. Chimney fire in three-and-half-story wooden tenement block, No. 520 North Main street, owned by Mrs. J. B. Chamberland, and occupied by her and others. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

STILL. Sunday, February 9, 9.45 A. M. Chimney fire in three-and-half-story wooden tenement block, No. 141 Hanover street, owned by Stutman & Silber, and occupied by Frank Therrien and others. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, February 9, 2.58 P. M. Three-story wooden tenement block, No. 326 Pine street, owned by J. E. Burgess, and occupied by Kazimiecz & Waszcek. Slight fire in bed. Extinguished before arrival of Squad A.

Box 15. Sunday, February 9, 4.01 P. M. Chimney fire in two-and-half-story wooden tenement building, No. 73 Orange street, owned by Frank J. Griffin, and occupied by Minnie Morand. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical; Hose 1, 2; Squad A; Trucks 1, 5.

STILL. Sunday, February 9, 4.08 P. M. Four-story brick block, No. 78 West Bridge street, owned by the American Duck Co., and occupied by Mrs. Lillian Waight. Cause, coals dropping from stove set fire to floor, doing but little damage. Chemical Engine and Hose 1 responded. Used 2 pony extinguishers.

STILL. Sunday, February 9, 5.14 P. M. Chimney fire in two-and-half-story wooden dwelling, No. 396 Cedar street, owned by Nina Nichols, and occupied by Lawrence Hurley. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, February 10, 12.10 P. M. Chimney fire in two-and-half-story wooden tenement block, No. 24 (rear) Wayne street, owned by E. L. Gresley, and occupied by J. B. Dionne and others. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

STILL. Monday, February 10, 3.35 P. M. Chimney fire at No. 21 Washington block (60 Pearl street), owned by Charles C. Hayes, and

occupied by Louis Martel. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, February 10, 4.15 P. M. Chimney fire in four-story brick block, No. 21 Pearl street, owned by Daniel Readey, and occupied by McQuesten & Lewis, grocers. Squad A responded. Used 1 chemical tank.

STILL. Monday, February 10, 4.30 P. M. Chimney fire in two-and-half story wooden block, No. 20 North Main street, owned by Frank P. Johnson, and occupied by several families. Sheathing and floor slightly damaged. Members of Engine 2 responded with wagon. Used 1 chemical tank.

STILL. Monday, February 10, 5.25 P. M. Chimney fire in three-story wooden block, No. 641 Elm street, owned by Eugene Lefebvre, and occupied by John T. Levasseur. Squad A responded. No services required.

Box 53. Monday, February 10, 6.45 P. M. Three-story wooden factory on Mast street, owned and occupied by the U. S. Bobbin & Shuttle Co. Cause, unknown. Box pulled by a police officer. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 6. Value of building, \$8,000; damage, \$200; blanket insurance; insurance paid, \$200. Value of contents, \$10,000; damage, \$2,017.42; blanket insurance; insurance paid, \$2,017.42.

STILL. Thursday, February 13, 11.30 A. M. One-story wooden building, No. 39 Amherst street, owned by Dowd Bros., and occupied by John Olesniewicz as a liquor saloon. Cause, cigarette. Squad A responded. Used 1 pony extinguisher. Value of building, \$500; damage, \$10; insurance, \$500; insurance paid, \$10. No damage to contents.

Box 61. Thursday, February 13, 1.33 P. M. Cottage house on Elmhurst avenue, east of Calef road, owned and occupied by William Andrews. Cause, defective chimney. Box pulled by citizen. Companies responding: Engines 7, Chemical; Hose 1, 3; Squad A; Truck 7. Value of building, \$1,600; damage, \$325; insurance, \$1,500; insurance paid, \$325. Value of contents, \$500; damage, \$75; no insurance.

STILL. Thursday, February 13, 3.45 P. M. Chimney fire in three-story wooden tenement block, No. 16 Clark avenue (off Pearl street), owned by Higgins & Dennett, and occupied by Frank Perreault. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, February 13, 3.55 P. M. Cottage house, No. 444 Hall street, owned and occupied by L. W. Paige. Cause, waste paper in furnace caused sparks to set fire to roof. Members of Engine and Ladder 3 responded with wagon. Laid 400 feet of hose from hydrant.

STILL. Thursday, February 13, 6.38 P. M. Boston & Maine locomotive No. 3604 at passenger station. Cause, "back-draft." Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Thursday, February 13, 7.30 P. M. Chimney fire in cottage



house, No. 623 Clay street, owned by Mrs. ——— Dustin, and occupied by J. F. Butler. Truck 7 responded. Used 2 pony extinguishers and 40 feet of ladders.

STILL. Thursday, February 13, 11.07 P. M. Three-story wooden building, No. 402 Auburn street, owned by Ann Earle, and occupied by James Conlon. Cause, smoking stove. Squad A responded.

STILL. Friday, February 14, 10.19 A. M. Chimney fire in two-and-half-story wooden dwelling house, No. 112 Ray street, owned by Mrs. D. W. Atwood, and occupied by G. A. Dewey. Members of Engine and Ladder 5 responded with wagon. Used 3 pony extinguishers.

STILL. Saturday, February 15, 4.25 P. M. An awning on three-story wooden block, No. 1195 Elm street, owned by Mrs. Julia B. Bradford. Cause, unknown. Squad A responded. No services required.

STILL. Saturday, February 15, 9.45 P. M. An automobile on Myrtle street, near Elm, owned by Henry L. Provost. Cause, leak in gas pipe. Squad A responded. Used 2 pony extinguishers and 1 Pyrene gun.

STILL. Monday, February 17, 7.05 P. M. Chimney fire in four-story wooden block, No. 1223 Elm street, owned by the Hugh Ramsey heirs, and occupied by Charles Dubé. Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Monday, February 17, 9.50 P. M. Chimney fire in three-story wooden tenement block, No. 13 Barr street, owned by Fred G. Stark, and occupied by John Connor and others. Members of Engine 2 responded with wagon. Used 1 chemical tank.

STILL. Tuesday, February 18, 6.40 A. M. Chimney fire in cottage house, No. 23 Dutton street, owned by E. A. Fournier, and occupied by Julius Oakleaf. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, February 18, 6.10 P. M. Chimney fire in cottage house, No. 153 Turner street, owned and occupied by Fred Fichtinger. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Tuesday, February 18, 8.50 P. M. Chimney fire in cottage house, No. 374 East Spruce street, owned by the George Goodwin heirs. Members of Engine and Ladder 3 responded with wagon. Used 2 pony extinguishers.

STILL. Thursday, February 20, 5.25 P. M. Chimney fire in two-story wooden dwelling house, No. 101 McDuffie street, owned by F. A. Platts, and occupied by two families. Members of Engine 2 responded with wagon. Used 1 chemical tank.

STILL. Friday, February 21, 5.30 A. M. Boston & Maine freight car on siding at Taylor street. Slight fire caused by oil heater. Members of Engine and Ladder 3 responded with wagon. Laid 450 feet of hose from hydrant.

STILL. Saturday, February 22, 10.03 A. M. The Home of St. Martha, a three-story wooden building, No. 434 Union street, owned by the

Sisters of Mercy. Cause, hot ashes in ash pan of furnace heated the wood work. No fire. Squad A responded.

STILL. Sunday, February 23, 4.35 P. M. Chimney fire in three-story wooden tenement block, No. 64 Concord street, owned by the Capt. S. W. Parsons heirs, and occupied by Edouard St. Cyr and others. Squad A responded. Used 1 chemical tank.

STILL. Sunday, February 23, 9.20 P. M. Chimney fire in two-story wooden tenement block, No. 265 South Main street, owned by Irving French of Bedford, and occupied by Arthur Lavigne and others. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Monday, February 24, 6.15 P. M. Chimney fire in two-story wooden dwelling, No. 954 Valley street, owned and occupied by August Groux. Truck 7 responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Monday, February 24, 7.25 P. M. Chimney fire in cottage house, No. 363 Wilson street, owned and occupied by Joseph Bourassa. Truck 7 responded. Used 1 pony extinguisher.

STILL. Tuesday, February 25, 2.45 P. M. Cottage house, No. 144 Hall street, owned and occupied by Howard B. Cushing. Cause, curtains in bathroom in contact with gas flame. Truck 7 responded. Used 1 pony extinguisher.

Box 71. Tuesday, February 25, 6.46 P. M. Three-story wooden tenement house, No. 136 Lake avenue, owned by E. Bilodeau, and occupied by Kasabin Bros. Cause, thawing water pipes. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose, 1, 3; Squad A; Trucks 1, 3.

STILL. Tuesday, February 25, 9.33 P. M. Two-and-half-story wooden dwelling, No. 548 Cartier street, owned by Esdras Blais, and occupied by H. M. Cochrane and others. Cause, oilstove "smudge." Members of Engine and Ladder 6 responded with wagon. No services required. No damage to building. Value of contents, \$700; damage, \$30; insurance, \$700; insurance paid, \$30.

STILL. Wednesday, February 26, 2.10 A. M. Woodshed in rear of Elliott Silk mill, corner of Valley and Wilson streets, owned and occupied by the Elliott Manufacturing Co. Cause, spontaneous combustion of soft coal. Squad A responded. Laid 400 feet of hose from hydrant.

STILL. Wednesday, February 26, 12.05 P. M. Cottage house, No. 427 Central street, owned by Smith Dodge, and occupied by Jonas Harvey. Cause, bursting of water-front in stove. Members of Engine and Ladder 3 responded with wagon. No services required. Value of building, \$1,500; damage, \$25; insurance, \$1,000; insurance paid, \$25.

Box 64. Wednesday, February 26, 5.22 P. M. Chimney fire in two-story wooden tenement house, No. 17 Plummer street, owned by Mrs. Emma Merrill of Londonderry, and occupied by Rose Pelletier and M.

McGuinness. Box pulled by a boy. Companies responding: Engines 1, 7, Chemical; Hose 3; Squad A; Truck 7.

STILL. Wednesday, February 26, 6.18 P. M. Two-story brick dwelling, corner of North Main and Conant streets, owned by St. Andrew's Episcopal church, in process of construction. Cause, unknown. Members of Engine 2 responded. Use 2 pony extinguishers.

STILL. Wednesday, February 26, 7.05 P. M. Chimney fire in three-story wooden tenement block, No. 21 Concord street, owned by the American Duck Co., and occupied by Henry Bisson. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, February 27, 4.55 P. M. Cottage house and barn in Auburn, about five miles from City Hall, owned and occupied by Laurent Roy of this city. Squad A responded on telephone call.

STILL. Friday, February 28, 6.15 P. M. Chimney fire in three-story wooden dwelling house, No. 16 Jane street, owned and occupied by Dennis M. Enwright. Hose 2 responded. Used 1 pony extinguisher.

STILL. Friday, February 28, 6.33 P. M. Small barn, corner of Hancock and Hamilton streets, owned and occupied by Elmer H. Totman. Slight fire caused by coat hanging too near stove, in an "office." Hose 3 responded. Laid 400 feet of hose from hydrant.

STILL. Saturday, March 1, 7.55 A. M. Chimney fire in cottage house on Head street (no number), owned and occupied by Josef Cerweny. Members of Engine 2 responded with wagon. Used 2 pony extinguishers.

STILL. Sunday, March 2, 1.55 P. M. Chimney fire in two-story brick dwelling house, No. 642 South Main street, owned by Richard Howarth, and occupied by E. W. Edwards. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Sunday, March 2, 4.35 P. M. Chimney fire in three-story wooden dwelling house, No. 90 Longwood avenue, owned by Emma Pellerin, and occupied by William Dubois. Squad A responded. Used 2 pony extinguishers.

STILL. Sunday, March 2, 5.30 P. M. Chimney fire in cottage house, No. 79 Putnam street, owned and occupied by Thomas Costello. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

Box 213. Sunday, March 2, 5.52 P. M. The grandstand at the Manchester Driving park, owned by P. Harrington's Sons. Cause, unknown. Box pulled by George Simoneau. Companies responding: Engines 3, 7, Chemical; Hose 3; Combination 2; Squad A; Trucks 3, 7. value of grandstand, \$1,400; damage, \$1,400; insurance, \$1,000; insurance paid, \$1,000.

STILL. Sunday, March 2, 6.37 P. M. Chimney fire in three-story wooden tenement block, rear of No. 171 Manchester street, owned by James Lightstone, and occupied by three families. Hose 1 responded. Used 1 pony extinguisher.

STILL. Sunday, March 2, 6.40 P. M. Chimney fire in three-story brick block, No. 14 South Main street, owned by Willis B. Kendall, and occupied as stores, offices and tenements. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Sunday, March 2, 7.40 P. M. Chimney fire in four-story brick block, No. 64 Merrimack street, owned by the heirs of John C. Young. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, March 3, 2.50 A. M. Rekindling of the remains of the grandstand at the Manchester Driving park. Hose 3 responded. Laid 200 feet of hose from hydrant. On duty one hour.

Box 214. Tuesday, March 4, 1.36 A. M. Cottage house, No. 363 Wilson street, owned and occupied by Joseph Bourassa. Cause, defective chimney. Box pulled by citizen. Companies responding: Engines 3, 7; Hose 3; Combination 2; Squad A; Trucks 3, 7. Value of building, \$3,000; damage, \$20.80; insurance, \$2,200; insurance paid, \$20.80. No damage to contents.

STILL. Tuesday, March 4, 3.40 P. M. Chimney fire in cottage house, No. 167 Elm street, owned and occupied by Polezcarpe Lessard. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, March 5, 6.45 P. M. Chimney fire in two-story wooden tenement house, No. 232 Cartier street, owned by Joseph Boucher, and occupied by him and others. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

STILL. Monday, March 10, 8.30 A. M. Four-story wooden tenement and mercantile block, No. 431 North Main street, owned by George Blanchet, and occupied by several firms and tenants. Cause, overheated stove in clothing store of Geoffrion & Cullerot. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

STILL. Wednesday, March 12, 7.30 A. M. Chimney fire in cottage house, No. 280 Taylor street, owned by Mrs. — Freeman, and occupied by Frank P. Ham. Truck 7 responded. Used 1 pony extinguisher.

STILL. Friday, March 14, 9.15 A. M. Two-and-half-story wooden dwelling, No. 400 Union street, owned by David Cohen, and occupied by Clifford Pierce. Fire in bed and closet from some unknown cause. Squad A responded. Used 1 chemical tank.

Box 7. Friday, March 14, 10.46 P. M. One-story wooden building, No. 412 Chestnut street, owned by the Elliot Hospital, leased by Joseph R. LaFlamme, and occupied by Caron & Waight, as the Oneeda laundry. Cause, overheated stove. Box pulled by Deputy Chief of Police John F. Cassidy. Companies responding: Engines 1, 3. Chemical; Hose 1; Squad A; Trucks 1, 3. Value of building, \$4,000; damage, \$700; insurance, \$3,500; insurance paid, \$630. Value of contents, \$2,000; damage, \$2,000; insurance, \$500; insurance paid, \$500.

STILL. Friday, March 14, 11.55 P. M. Squad A called to scene of above fire on account of "bottled" smoke. No services required.

Box 72. Sunday, March 16, 7.37 P. M. False alarm. Companies responding: Engines 1, 3, Chemical; Hose 2; Combination 2; Squad A; Truck 3.

Box 511. Monday, March 17, 6.55 P. M. Chimney fire in dwelling house, No. 47 Green street, owned by Thinie Schricker, and occupied by Fred H. Stevens and George Provencher. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 6.

Box 16. Wednesday, March 19, 3.31 P. M. Two-story wooden dwelling house, No. 60 Walnut street, owned and occupied by Martin Fitzgerald. Cause, burning leaves. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical; Hose 1, 2; Squad A; Trucks 1, 5.

STILL. Wednesday, March 19, 4.53 P. M. Chimney fire in wooden dwelling house, No. 22 Union street, owned and occupied by the heirs of C. A. O'Connor. Hose 3 responded.

STILL. Thursday, March 20, 6.30 P. M. Chimney fire in two-and-half-story wooden dwelling house, No. 19 School street, owned and occupied by Dr. Mary S. Danforth. Squad A and members of Engine 2 responded with wagon. Used 2 pony extinguishers and 1 chemical tank.

Box 321. Friday, March 21, 11.59 P. M. False alarm. Companies responding: Engines 2, 6; Squad A; Trucks 1, 6.

STILL. Saturday, March 22, 5.40 P. M. Three-story wooden building, corner of Beech and Somerville streets, owned by the B. H. Piper Building Co., and occupied by the B. H. Piper Co., manufacturers of spokes, bats, axe handles, etc. Cause, sparks in shavings bin. Squad A responded. Used 1 chemical tank and laid 500 feet of hose from hydrant.

STILL. Sunday, March 23, 12.15 A. M. Brush fire on Oak Hill (Derbyfield park, owned by the city of Manchester). Combination 2 responded.

STILL. Sunday, March 23, 10.15 A. M. Chimney fire in three-story wooden dwelling, No. 243 Auburn street, owned by the William Kennedy heirs, and occupied by James Kennedy. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, March 23, 10.40 A. M. Chimney fire in three-story wooden tenement block, No. 457 North Main street, owned by Leggett & Adams, and occupied by J. Doucet and others. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Sunday, March 23, 2.05 P. M. Four-story wooden building, No. 135 Massabesic street, owned by A. Emerson, and occupied by Henry Bowman and others. Cause, gasoline explosion. Members of Engine and Ladder 3 responded with wagon. Used 1 pony extinguisher.

STILL. Sunday, March 23, 4.30 P. M. Grass fire on Milford street, on land owned by the George W. Riddle heirs. Members of Engine 2 responded with wagon.

STILL. Monday, March 24, 9.15 A. M. Chimney fire in two-story

wooden dwelling, No. 97 Hall street, owned and occupied by John Sullivan. Truck 7 responded. Used 1 pony extinguisher.

Box 64. Tuesday, March 25, 7.55 A. M. Two-story wooden tenement house, No. 17 Plummer street, owned by Mrs. Emma N. Merrill, and occupied by James Leonard and others. Slight fire in closet on second floor from some unknown cause. Box pulled by citizen. Companies responding: Engines 1, 7, Chemical; Hose 3; Squad A; Truck 7. Value of building, \$1,500; damage, \$20; insurance, \$1,500; insurance paid, \$20. No damage to contents.

STILL. Thursday, March 27, 8.30 P. M. Cottage house, No. 223 Lowell street, owned by Mrs. William Corey, and occupied by W. F. Goodwin. Cause, surplus smoke from new fire in furnace. Hose 2 responded.

STILL. Saturday, March 29, 7.05 P. M. Chimney fire in four-story brick block, No. 92 Mechanic street, owned by the American Duck Co., and occupied by Edmond Martel. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, March 30, 12.45 P. M. Brush fire in Amoskeag Village, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Sunday, March 30, 12.45 P. M. Grass fire at the corner of Hall and Harvard streets. Truck 7 responded.

STILL. Monday, March 31, 1.30 P. M. Two-and-half-story wooden dwelling house, No. 184 Wilson street, owned by Peter Groux, and occupied by Stanislas E. Gagnon. Cause, burning charcoal in cellar. Truck 7 responded. No services required.

STILL. Tuesday, April 1, 7.40 P. M. Chimney fire in two-and-half-story wooden dwelling house, No. 47 Green street, owned by H. Schacter, and occupied by George Provencher. Members of Engine 2 responded with wagon. Used 2 pony extinguishers.

STILL. Wednesday, April 2, 7.10 A. M. A wooden leather-dust shed, corner of Lincoln and Silver streets, owned and occupied by the F. M. Hoyt Shoe Co. Cause, spontaneous combustion. Truck 7 responded.

STILL. Wednesday, April 2, 11.10 A. M. Three-story brick building, No. 64 Hanover street, owned by the estates of Hill, Gay and Wells, and occupied by the John B. Clarke Co., as the *Mirror* Office. Cause, overheated stove. Squad A responded.

STILL. Wednesday, April 2, 12.55 P. M. Chimney fire in two-and-half-story wooden dwelling, No. 298 Cartier street, owned and occupied by Modeste Coté. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Thursday, April 3, 10.53 A. M. Burning brush in street, corner of Clarke and Ray streets. Members of Engine and Ladder 5 responded with wagon.

STILL. Thursday, April 3, 11.15 A. M. Three-story wooden tenement block, No. 54 Birch street, owned by the McGregorville Investment Co., and occupied by Joseph Pomerleau and others. Bed fire from some

unknown cause. Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

Box 21. Thursday, April 3, 2.15 P. M. Three-story brick house, No. 110 (rear) Central street, owned by Anthoni Rozmus. Fire started on rear piazza of an empty tenement (undergoing repairs) from spontaneous combustion. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 1, 3, 4, Chemical; Hose 1; Squad A; Trucks 1, 3. Value of building, \$3,000; damage, \$50; insurance, \$3,000; insurance paid, \$50. No damage to contents.

Box 9. Thursday, April 3, 2.19 P. M. Grass fire on Webster street, between Elm street and North River road, on land owned by Walter M. Parker. Box pulled by citizen. Companies responding: Engines 2, 5, Chemical; Hose 2; Combination 2; Truck 5.

STILL. Friday, April 4, 12.00 NOON. Chimney fire in cottage house, No. 146 Central street, owned and occupied by Edmond Bourque. Squad A responded. Used 2 pony extinguishers.

STILL. Saturday, April 5, 10.15 A. M. Three-story wooden tenement house, No. 577 Rimmon street, owned by Joseph Marchand, and occupied by him and others. Cause, explosion of stove blacking. Members of Engine and Ladder 6 responded with wagon. No services required.

STILL. Saturday, April 5, 6.15 P. M. Chimney fire in four-story brick block, corner of Elm and Lowell streets, owned by James A. Scully, and occupied by T. J. Foley, as the Old City Hotel. Squad A and Truck 1 responded. Used 1 chemical tank and 50 feet of ladders.

Box 71. Sunday, April 6, 9.05 A. M. Three-story wooden dwelling house, No. 146 East Spruce street, owned by Rachel Perolman, and occupied by Abraham Perolman. Cause, clothes hanging too near stove. Extinguished before arrival of apparatus. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Sunday, April 6, 1.15 P. M. Chimney fire in cottage house, No. 224 East Spruce street, owned and occupied by Louise Silverberg. Squad A responded. No services required.

STILL. Sunday, April 6, 1.30 P. M. Grass fire at No. 14 Elm street on land owned by Mrs. Emily J. Welch. Hose 3 responded.

STILL. Sunday, April 6, 3.14 P. M. Three-story brick building, No. 938 Elm street, owned by the John J. Bell estate, of Exeter, N. H., and occupied by the Manchester Hardware Co. Cause, waste paper in front of basement window under grating. Extinguished by Capt. C. R. Merrill of Hose 3.

STILL. Tuesday, April 8, 8.23 A. M. Chimney fire in cottage house, No. 107 Myrtle street, owned and occupied by the Misses Maria F. and Mary M. Kidder. Squad A responded. Used 1 pony extinguisher.

Box 73. Tuesday, April 8, 9.30 A. M. Chimney fire in two-and-half-story wooden tenement house, No. 305 Cedar street, owned by C. D. Reynolds, and occupied by Peter Mahoney. Box pulled by Ellen

Mahoney. Companies responding: Engines 1, 3, Chemical; Hose 2; Squad A; Truck 3.

STILL. Tuesday, April 8, 10.05 A. M. Chimney fire in two-story wooden dwelling house, No. 177 Winter street, owned by Mrs. Mary Gavin, and occupied by F. M. Daly. Members of Engine 2 responded with wagon. Used 2 pony extinguishers.

Box 214. Tuesday, April 8, 1.27 P. M. Three-story wooden tenement block, No. 206 Wilson street, owned by Henri Goyette, and occupied by Alphonse Bretten. Cause, overturning of oilstove. Damage slight. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 3, 7; Hose 2, 3; Combination 2; Squad A; Trucks 3, 7. Value of building, \$7,000; damage, \$100; insurance, \$6,500; insurance paid, \$100.

STILL. Wednesday, April 9, 1.36 A. M. Grass fire at No. 1019 Union street, on land owned by Mrs. J. H. Mendell. Members of Engine and Ladder 5 responded with wagon. Used 1 pony extinguisher.

STILL. Wednesday, April 9, 11.45 A. M. Grass fire, on Hayward street, on a vacant lot owned by the Amoskeag Manufacturing Co. Truck 7 responded. Used 2 pony extinguishers.

STILL. Thursday, April 10, 3.04 P. M. Brush fire in rear of Vinton street, on land owned by R. P. Stevens. Truck 7 responded. Used 2 pony extinguishers.

STILL. Thursday, April 10, 4.15 P. M. Chimney fire in three-story wooden tenement block, No. 56 Amory street, owned by Frank C. Miville, and occupied by N. Morin and others. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Saturday, April 12, 12.20 P. M. Cottage house, No. 397 Amherst street, owned by Henry Moore, and occupied by Joseph Lucier. Cause, smoking stove. Squad A responded.

STILL. Sunday, April 13, 6.45 P. M. Three-story wooden tenement block, No. 461 Beech street, owned by M. J. Healy, and occupied by Joseph Houle. Cause, damper in furnace closed. Squad A responded.

Box 511. Sunday, April 13, 8.05 P. M. Chimney fire in dwelling house, No. 356 Douglas street, owned by Ann Buckley, and occupied by Harry McLaughlin. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 6.

STILL. Thursday, April 17, 12.37 P. M. Grass fire, on Elm street, below the Gas Works, on land owned by the Amoskeag Manufacturing Co. Hose 3 responded.

STILL. Thursday, April 17, 10.20 P. M. Chimney fire in four-story brick block, No. 74 West Central street, owned and occupied by E. J. Morrissey, as the Paragon Hotel. Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Friday, April 18, 1.00 P. M. Grass and brush fire in rear of No. 356 Bartlett street, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.



STILL. Friday, April 18, 1.25 P. M. Brush fire on New Mast road, on land owned by Wilfrid Bernard. Squad A responded. Used 2 pony extinguishers.

STILL. Friday, April 18, 8.10 P. M. Four-story brick mercantile block, No. 489 Elm street, owned by the estate of Otis Barton, and occupied by the Barton Co. Cause, taking flashlight photos. No. fire. Squad A responded.

STILL. Saturday, April 19, 2.20 P. M. Waste box in yard in rear of No. 34 Vine street, owned by the American Duck Co. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, April 20, 5.15 P. M. Brush fire on Sullivan street extension, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder 6 responded with wagon.

STILL. Monday, April 21, 11.10 A. M. Brush fire in rear of No. 1230 Hanover street (Queen City Floral Co.), on land owned by Samuel H. Mead. Squad A responded.

Box 62. Tuesday, April 22, 10.08 A. M. Brush fire in South Manchester, between Brown avenue and the Boston & Maine Railroad track, on land owned by several parties. Box pulled by a boy. Companies responding: Engines 1, 7, Chemical; Hose 1, 3; Squad A; Truck 7.

STILL. Tuesday, April 22, 10.20 A. M. Brush fire on Coolidge avenue extension, on land owned by the Amoskeag Mfg. Co. Members of Members of Engine and Ladder 6 responded with wagon.

STILL. Tuesday, April 22, 1.45 P. M. Cottage house and barn, No. 460 Manchester street, owned and occupied by William G. Garmon. Blanket in wagon ignited from some unknown cause. Members of Engine and Ladder 3 responded with wagon.

STILL. Wednesday, April 23, 6.30 A. M. Chimney fire in three-story wooden tenement block, No. 166 Lake avenue, owned by B. W. Blodgett, and occupied by Joseph Landry. Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Wednesday, April 23, 11.55 P. M. Three-story brick block, No. 1007 Elm street, owned by Halbert N. Bond, and occupied by Mrs. J. D. Lafond. Cause, cigar stub dropped through grating over basement window. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, April 24, 6.3 A. M. Small barn at No. 207 Willow street, owned by Eastman Bros. Cause, unknown. Squad A responded. Used 2 pony extinguishers and 1 chemical tank.

STILL. Thursday, April 24, 1.00 P. M. Brush fire on Bald Hill road. Squad A responded.

STILL. Thursday, April 24, 2.00 P. M. Brush fire on Bridge Street extension, on land owned by the Wilbur Land Co. Combination 2 responded. Used 2 pony extinguishers.

STILL. Thursday, April 24, 4.00 P. M. Rekindling of brush fire on Bald Hill road. Squad A responded.

STILL. Thursday, April 24, 7.05 P. M. Three-story wooden block, No. 8 Pearl street, owned by the heirs of A. D. Burgess, and occupied by B. Bulas as a tailor shop. Cause, gas flatiron left burning. Squad A responded. Used 1 chemical\* tank.

STILL. Friday, April 25, 11.00 A. M. Brush fire on Bald Hill road, on land owned by the Elias Hedding estate. Squad A responded.

STILL. Friday, April 25, 6.30 P. M. Brush fire on Mammoth road, near Bald Hill road, on land owned by William K. Stockdale. Combination 2 responded.

STILL. Friday, April 25, 7.05 P. M. Three-story wooden tenement house, No. 148 Manchester street, owned by Isaac Resnick, and occupied by Albena Bennett. Cause, overheated stove. Squad A responded. No services required.

STILL. Saturday, April 26, 1.30 P. M. Brush fire on Harrison street, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Saturday, April 26, 2.30 P. M. Brush fire on Smyth road, on land owned by Mrs. Marion C. Smyth. Squad A responded.

STILL. Saturday, April 26, 2.50 P. M. Three-story brick building, No. 64 (rear) Merrimack street, owned by the heirs of John C. Young, and occupied by several families. Cause, garbage box. Chemical Engine responded. Used 1 pony extinguisher.

STILL. Saturday, April 26, 5.15 P. M. Brush fire on Hooksett road, on land owned by the Amoskeag Manufacturing Co. and others. Members of Engine and Ladder 5 responded with wagon. Used 2 pony extinguishers.

STILL. Sunday, April 27, 2.05 P. M. Brush fire on Smyth road, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Tuesday, April 29, 10.00 P. M. Chimney fire in two-story dwelling house, No. 115 (rear) Central street, owned by Kate Cullity, and occupied by Maggie Leonard. Squad A responded. Used 1 chemical tank.

STILL. Wednesday, April 30, 11.15 A. M. Brush fire on Willow street, on land owned by Frank Gosselin. Squad A responded.

STILL. Wednesday, April 30, 11.30 A. M. Brush fire on Valley street, on land owned by the Amoskeag Manufacturing Co. Truck 7 responded.

STILL. Wednesday, April 30, 4.35 P. M. Brush fire on Sullivan street extension, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Wednesday, April 30, 7.15 P. M. Brush fire on North River road, on land owned by Connolly & Riley. Cause, sparks from a Boston & Maine locomotive. Squad A responded.

STILL. Thursday, May 1, 8.38 A. M. Chimney fire in two-story wooden dwelling house, No. 63 Carpenter street, owned and occupied

by Norwin S. Bean. Members of Engine and Ladder 5 responded with wagon.

STILL. Friday, May 2, 4.30 P. M. Chimney fire in three-story brick block, No. 8 Leggett court, owned by Leggett & Adams, and occupied by several families. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

STILL. Friday, May 2, 7.45 P. M. Grass fire corner of Nelson street and Portsmouth Railroad, on land owned by C. M. Platts. Members of Engine and Ladder 3 responded with wagon. No services required.

STILL. Saturday, May 3, 11.15 A. M. Brush fire in rear of Textile Field, west of Rock Rimmon, on land owned by the Amoskeag Mfg. Co. Members of Engine and Ladder 6 responded with wagon.

Box. 213. Saturday, May 3, 11.45 A. M. Small hen coop at No. 353 Shasta street, owned by Daniel Healy. Cause, unknown. Box pulled by Daniel Healy, Jr. Companies responding: Engines 3, 7, Chemical; Hose 2, 3; Squad A; Trucks 3, 7. Value of building, \$50; damage, \$10; no insurance.

STILL. Saturday, May 3, 1.30 P. M. Four-story brick block, No. 893 Elm street, owned by Littlefield & Edgerly, and occupied by John J. Holland, as a drug store. Cause, "dead air" in chimney. Chemical Engine responded.

STILL. Saturday, May 3, 1.45 P. M. Three-story wooden dwelling, No. 195 Hanover street, owned by Silber & Tatelman, and occupied by Dennis Lane. Cause, smoky stove. Squad A responded.

STILL. Saturday, May 3, 2.45 P. M. Four-story brick block, No. 887 Elm street, owned by Littlefield & Edgerly, and occupied by K. Bernstein. Cause, "dead air" in chimney. Squad A responded.

STILL. Saturday, May 3, 6.35 P. M. Brush fire on Donald street, in rear of the Robie Concrete Works, on land owned by the Kennard heirs. Members of Engine 2 responded with wagon. Used 1 pony extinguisher and 2 chemical tanks.

STILL. Sunday, May 4, 12.45 P. M. Brush fire on Mill Dam road, on land owned by the Manchester Water Works. Squad A responded.

STILL. Sunday, May 4, 6.55 P. M. Two-story wooden building, No. 125 Hanover street, owned by G. F. Boshier, and occupied by John Bruno. Cause, rats and matches. Squad A and Truck 1 responded. Used 1 chemical tank and 55 feet of ladders.

STILL. Sunday, May 4, 10.40 P. M. New bank building in process of construction by the R. H. Howes Construction Co., corner of Elm and Hanover streets, owned by the Amoskeag Savings Bank. Cause, pile of coke. Squad A responded. Used 1 chemical tank.

Box 4. Tuesday, May 6, 5.04 P. M. Rubbish box in rear of No. 34 Cedar street, at the Holy Rosary school, owned by Bishop George A. Guertin. No services required. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Wednesday, May 7, 9.58 A. M. A smoky stove at the resi-

dence of William L. Comire, No. 22 Lingard street. Hose 3 responded.

Box 711. Wednesday, May 7, 11.42 A. M. Two-and-half-story wooden dwelling house, No. 178 Green street, owned and occupied by Katie Toafe. Slight fire on roof. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 1, 7, Chemical; Hose 3; Squad A; Truck 7.

Box. 324. Wednesday, May 7, 5.38 P. M. Grass fire on Kearsarge street, near Railroad street, on land owned by Joseph Dery. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 6.

STILL. Wednesday, May 7, 7.10 P. M. Three-story wooden dwelling house, No. 712 Beech street, owned by Anna McKenna, and occupied by L. M. Pratt. Cause, meat burning on stove. Squad A responded.

STILL. Thursday, May 8, 1.15 P. M. Brush fire at Pleasant View park, east of Pine Grove Cemetery, on land owned by Mrs. Fred Sweet. Squad A responded.

STILL. Thursday, May 8, 1.30 P. M. Brush fire at No. 80 South Beech street, on land owned by Mrs. — McDonald. Truck 7 responded.

STILL. Thursday, May 8, 3.15 M. P. Rekindling of brush fire at Pleasant View park: Squad A responded.

STILL. Friday, May 9, 8.30 A. M. Chimney fire in three-story wooden dwelling house, No. 653 Dix street, owned by Chas. D. Trudel, and occupied by Emma Gosselin. Truck 7 responded. Used garden hose, 1 pony extinguisher and 16 feet of ladders.

STILL. Friday, May 9, 5.32 P. M. Brush and leaves on Maple street, near Willow, on land owned by Arthur H. Hale. Hose 3 responded.

STILL. Saturday, May 10, 4.15 P. M. Chimney fire in two-story wooden dwelling house, No. 502 North Main street, owned and occupied by Thomas Donnelly. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

Box 8. Sunday, May 11, 10.14 A. M. An ash-chute in rear of three-story brick building, No. 1408 Elm street, owned by Norwin S. Bean. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical; Hose 1, 2; Squad A; Trucks 1, 5.

STILL. Sunday, May 11, 1.15 P. M. Dust-box attached to four-story brick shoe shop, owned by the F. M. Hoyt Shoe Co., at the corner of Lincoln and Silver streets. Truck 7 responded.

STILL. Sunday, May 11, 3.35 P. M. Brush fire on South Beech street on land owned by St. Augustine's Church. Squad A responded.

STILL. Sunday, May 11, 4.10 P. M. Brush fire on Boynton street, on land owned by the Kennard heirs. Members of Engine 2 responded with wagon. Used 1 pony extinguisher and 1 chemical tank.

STILL. Sunday, May 11, 7.50 P. M. Small hen-coop at No. 253 West Hancock street, owned by Charles Clement. Cause, oil stove exploded. Members of Engine 2 responded with wagon. No services required.

STILL. Monday, May 12, 2.30 P. M. Brush fire west of Rock Rimmon, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder 6 responded.

Box 513. Monday, May 12, 3.00 P. M. Grass fire on Rochelle avenue and Carroll street, on land owned by the heirs of George W. Riddle. Box pulled by a woman. Companies responding: Engines 2, 6; Squad A; Truck 6.

STILL. Tuesday, May 13, 1.49 P. M. Leaves raked up in rows, on Maple street near Willow, on land owned by Arthur H. Hale. Cause, set by boys. Hose 3 responded.

STILL. Wednesday, May 14, 11.10 A. M. Two-story wooden barn, No. 1015 Chestnut street, owned and occupied by Mrs. W. R. Varick. Cause, unknown. Hose wagon of Engine 5 and Squad A responded. Used 1 chemical tank and laid 250 feet of hose from hydrant. Value of building, \$2,000; damage, \$12.86; insurance, \$1,500; insurance paid, \$12.86. Value of contents, \$200; damage, \$11; insurance, \$200; insurance paid, \$11.

STILL. Wednesday, May 14, 11.50 A. M. Chimney fire in three-story wooden tenement block, No. 5 Barr street, owned by Fred G. Stark, and occupied by eight families. Members of Engine 2 responded with wagon. Used 1 pony extinguisher and 1 chemical tank.

STILL. Wednesday, May 14, 12.55 P. M. Brush fire on Sagamore street, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Wednesday, May 14, 1.43 P. M. Waste-box in a shed in rear of No. 119 Merrimack street, owned by Ida Luby, and occupied by Antsu Snibski. Chemical Engine responded. Used 1 chemical tank.

2—2—2. Wednesday, May 14, 2.11 P. M. Forest fire on Goffstown road, on land owned by William H. Maxwell. Squad A and delegation from Engine and Ladder 5 responded. On duty 1 hour and 50 minutes.

STILL. Thursday, May 15, 8.30 A. M. Brush fire in Derryfield park, set by boys. Squad A responded.

STILL. Thursday, May 15, 12.45 P. M. Rekindling of brush fire in Derryfield park. Squad A responded.

STILL. Thursday, May 15, 2.00 P. M. Brush fire on Kelley and Morgan streets, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder 6 responded.

Box. 21. Thursday, May 15, 2.25 P. M. Small woodshed in rear of No. 198 Central street, owned and occupied by John E. Burns. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1; Squad A; Trucks 1, 3. Value of building, \$150; damage, \$11.85; insurance, \$100; insurance paid, \$11.85.

STILL. Thursday, May 15, 4.35 P. M. Brush fire at the Amoskeag Ledge, property of the Amoskeag Manufacturing Co. Squad A responded.

Box 4. Friday, May 16, 10.28 A. M. Three-story wooden tenement block, No. 493 Elm street, owned by the Manchester Realty Co., (M. C. Blanchard, agent), and occupied by several families. Cause, burning paper in boiler-room in basement. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

Box 321. Saturday, May 17, 3.25 P. M. Notre Dame Hospital, corner of Notre Dame avenue and Wayne street. Cause, explosion of gasoline, which was being used to clean furniture. Extinguished before arrival of apparatus. Damage slight. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Trucks 1, 6. Sponded with wagon. Used 1 pony extinguisher.

Box 17. Saturday, May 17, 5.38 P. M. Two-story barn at No. 453 Maple street, owned and occupied by J. J. Moreau. Cause, spontaneous combustion. Fire communicated to the house through a partition. Box pulled by James P. Brown. Companies responding: Engines 1, 3, Chemical; Hose 1, 2; Squad A; Trucks 1, 3. Value of buildings, \$3,500; damage, \$1,000; insurance, \$3,000; insurance paid, \$950. Value of contents, \$2,000; damage, \$400; insurance, \$2,000; insurance paid, \$400.

STILL. Saturday, May 17, 10.55 P. M. Chimney fire in three-story wooden tenement block, No. 32 Church street, owned and occupied by Peter Keishlinger. Squad A responded. Used 1 chemical tank.

STILL. Monday, May 19, 11.40 A. M. Chimney fire in cottage house, No. 329 Douglas street, owned by the estate of John Dyson, and occupied by Mrs. Julia A. Remington. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Monday, May 19, 12.00 noon. Brush fire on Omega street, on land owned by the Amoskeag Manufacturing Co., set by a boy named Callahan, eight years of age. Squad A responded.

STILL. Tuesday, May 20, 7.45 A. M. Two-and-half-story wooden tenement building, No. 238 West Hancock street, owned by F. H. Mussé, and occupied by Denis Shine and others. Fire in bed caused by children playing with matches. Extinguished with pail of water. Members of Engine 2 responded with wagon.

STILL. Wednesday, May 21, 11.45 A. M. Brush fire on Arah street, on land owned by the estate of C. C. Babbitt. Squad A responded.

STILL. Thursday, May 22, 5.30 A. M. Electric street car, at the corner of Elm and Amherst streets, owned by the Manchester Street Railway. Cause, hot box. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, May 22, 2.50 P. M. Three-story wooden tenement block, No. 81 Douglas street, owned by the Amoskeag Manufacturing Co., and occupied by Patrick Grady. Mattress ignited from some unknown cause. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Saturday, May 24, 2.30 P. M. Chimney fire in two-story wooden dwelling, No. 547 Union street, owned and occupied by C. H. Brown. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, May 26, 10.20 A. M. Four-story wooden tenement block, No. 38 Marion street, owned by Sam J. LaFlamme, and occupied by Octave Guillemette. Cause, woodpile in cellar. Extinguished with pail of water by Squad A.

STILL. Monday, May 26, 2.50 P. M. Two-story wooden stable, No. 390 Granite street, owned and occupied by Stanley Ceihon. Small fire in pile of rubbish at foot of stairs. Extinguished with two pails of water by members of Engine 2.

STILL. Friday, May 30, 3.28 P. M. Grass fire in rear of No. 222 North River road, on land owned by Harry G. Clough. Members of Engine and Ladder 5 responded with wagon. Used 1 pony extinguisher.

STILL. Sunday, June 1, 8.15 A. M. Three-story wooden tenement house, No. 31 Bridge street, owned by Samuel Katz, and occupied by Wunzeniec Lula. Cause, cigar stub thrown on roof. Squad A responded. No services required.

STILL. Sunday, June 1, 2.47 P. M. Brush fire on Bald Hill road, on land owned by the Annis heirs. Squad A responded.

STILL. Tuesday, June 3, 2.25 P. M. Chimney fire in two-story wooden dwelling, No. 125 Amherst street, owned and occupied by Kate Lynch. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, June 3, 2.30 P. M. Ash-box, at No. 8 Pearl avenue (rear of No. 35 Pearl street), owned by the Nason Hall estate. Cause, hot ashes. Extinguished with pail of water by Squad A.

STILL. Tuesday, June 3, 5.35 P. M. Grass fire on North River road, on land owned by Harry G. Clough, caused by sparks from a Boston & Maine locomotive. Squad A responded.

STILL. Wednesday, June 4, 1.30 P. M. Grass fire near Calef road and Lawrence branch of the Boston & Maine Railroad, on land owned by the Emerson heirs, caused by sparks from a Boston & Maine locomotive. Hose 3 responded.

STILL. Wednesday, June 4, 8.31 P. M. Chimney fire in four-story brick block, No. 15 Bridge street, owned by Patrick Kearns, and occupied by Phedime Coté. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, June 4, 10.15 P. M. Gasoline burning in Elm street, at the corner of Pearl. Squad A responded.

Box 513. Thursday, June 5, 5.46 P. M. One-story cement-block building on Rochelle avenue near Milford street, owned and occupied by the Manchester Cement Block and Concrete Co. Cause, unknown. Box pulled by citizen. Companies responding: Engines 2, 6; Squad A; Truck 6. Value of building, \$1,000; damage, \$100; no insurance. Value of contents, \$500; damage, \$15; no insurance.

STILL. Friday, June 6, 3.51 P. M. Cord-wood on the old Fair Grounds, on Willow street, owned by the Harrington Bros. Cause, sparks from a Boston & Maine locomotive. Squad A responded.

STILL. Saturday, June 7, 12.20 P. M. Grass and cord-wood on the old Fair Grounds on Willow street, owned by the Harrington Bros. Cause, sparks from a Boston & Maine locomotive. About 3 cords of wood destroyed. Hose 3 responded.

STILL. Monday, June 9, 7.05 A. M. Chimney fire in cottage house, No. 103 Second street, owned and occupied by Pierre Duval. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Monday, June 9, 11.18 A. M. Chimney fire in two-story wooden dwelling house, on Cohas avenue owned and occupied by Frank W. Marden. Squad A responded. Used 1 chemical tank.

STILL. Tuesday, June 10, 1.20 P. M. Cord-wood on Ward street, owned by A. N. Guay. Cause, unknown. Damage slight. Squad A responded. Used 2 pony extinguishers.

Box 4. Tuesday, June 10, 6.55 P. M. Three-story wooden tenement block, Nos. 29-31 Spruce street, owned by Frank P. Johnson, and occupied by Simis Xaritos and others. Cause, defective chimney. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical; Hose 1, 3; Squad A; Trucks 1, 3. Value of building, \$3,000; damage, \$300; insurance, \$2,000; insurance paid, \$200. No damage to contents.

STILL. Wednesday, June 11, 8.15 A. M. Chimney fire in cottage house, No. 22 Webster street, owned by Joseph R. LaFlamme, and occupied by Fred Pickwick. Members of Engine and Ladder 5 responded with wagon. Used 1 pony extinguisher.

STILL. Wednesday, June 11, 6.50 P. M. Chimney fire in two-story wooden dwelling house, No. 407 Manchester street, Hadley & Burgess Agents, and occupied by Ralph Baker. Squad A responded. Used 1 pony extinguisher.

Box 73. Wednesday, June 11, 10.18 P. M. Three-story wooden tenement house, No. 299 Cedar street, owned by I. Stoll, and occupied by Gedeon Turcotte. Cause, lamp exploded in cellar. All out on arrival of apparatus. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 2; Squad A; Truck 3.

STILL. Friday, June 13, 10.40 A. M. Chimney fire in cottage house, No. 8 Warren street, owned by Ira Baxter, and occupied by L. E. Beauchemin. Hose 2 responded. Used 1 pony extinguisher.

Box 6. Friday, June 13, 1.40 P. M. New ten-story building, corner of Elm and Hanover streets, in process of construction, owned by the Amoskeag Savings Bank. Cause, hot rivet dropped on tarred paper. No damage. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical; Hose 2; Squad A; Trucks 1, 5.

STILL. Friday, June 13, 3.03 P. M. Another hot rivet dropped in the new bank building. Squad A responded.



STILL. Friday, June 13, 3.15 P. M. Grass fire at No. 342 Bridge street on land owned by Mrs. George F. Elliot. Squad A responded.

STILL. Friday, June 13, 3.16 P. M. Brush fire on South Beech street, on land adjoining the Lawrence Branch of the Boston & Maine Railroad, owned by St. Augustine Cemetery and Frank Webster. Cause, sparks from a Boston & Maine locomotive. Hose 3 responded.

Box 321. Friday, June 13, 4.22 P. M. Notre Dame Hospital, corner of Notre Dame avenue and Wayne street. Cause, burning rags in kitchen. Services of department not needed. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Trucks 1, 6.

STILL. Friday, June 13, 5.15 P. M. Brush fire in rear of Amoskeag Textile Club grounds and west of Rock Rimmon, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder 6 responded.

STILL. Saturday, June 14, 10.48 A. M. Grass fire at No. 222 North River road, on land owned by Harry G. Clough. Members of Engine and Ladder 5 responded with wagon. Used 1 pony extinguisher.

STILL. Saturday, June 14, 3.23 P. M. Forest fire on Derry road, on land owned by Isaac Huse. Squad A responded. Used 2 pony extinguishers.

STILL. Saturday, June 14, 3.36 P. M. Pile of rubbish at the corner of Elm and Readey streets, on land owned by the estate of Josiah Carpenter. Members of Engine and Ladder 5 responded with wagon. Used 1 pony extinguisher.

STILL. Saturday, June 14, 8.48 P. M. An automobile at Hadlock's garage, No. 18 Bridge street, owned by George Caron. Cause, unknown. Damage, \$10; no insurance. Squad A responded.

STILL. Sunday, June 15, 2.10 P. M. Brush fire on Bald Hill road, on land owned by Joyce, Moss and others. Cause, burning piles of brush. Squad A responded. On duty two and one half hours.

STILL. Sunday, June 15, 5.35 P. M. Four-story brick block, No. 23 Pearl street, owned by Daniel Readey, and occupied by Arthur Houle and others. Cause, burning paper in back of stove. All out on arrival of Squad A.

STILL. Tuesday, June 17, 2.11 P. M. Brush fire on Bald Hill road, on land owned by Mrs. — Brown. Squad A responded.

STILL. Tuesday, June 17, 6.15 P. M. Chimney fire in dwelling house, No. 278 Lowell street, owned and occupied by M. J. Linehan. Combination 2 responded. Used 1 pony extinguisher.

STILL. Wednesday, June 18, 2.35 P. M. Brush fire on North Union street, on land owned by Daniel Allen. Cause, Allen burning brush without a permit to do so. Squad A responded.

STILL. Thursday, June 19, 7.10 P. M. Three-story wooden block, No. 1143 Elm street, owned by A. W. Moor, and occupied by Laurent Roy, as a café. Cause, pail of lard on stove caught fire. Squad A responded. Used 1 chemical tank.

STILL. Thursday, June 19, 8.26 P. M. Three-story wooden dwelling house in rear of No. 130 Merrimack street, owned and occupied by Rosa Ratner. Cause, broken lamp in closet. Squad A responded. Used 2 pony extinguishers.

Box 3. Friday, June 20, 9.45 A. M. Two-story wooden box factory, corner of Valley and Pine streets, owned and occupied by Fellows & Son. Cause, hot box. Box pulled by citizen. Companies responding: Engines 4, 7, Chemical; Hose 1, 3; Squad A; Trucks 1, 7. Value of building, \$6,000; damage, \$25; insurance, \$5,000; insurance paid, \$25. Value of contents, \$10,000; damage, \$97.30; insurance, \$8,000; insurance paid, \$97.30.

STILL. Friday, June 20, 3.30 P. M. Three-story wooden building, No. 159 Douglas street, owned by Henry Volkman, and occupied by him and others for stores and tenements. Cause, explosion of bottle of stove polish. Extinguished with pail of water by members of Engine 2.

Box 4. Saturday, June 21, 7.22 A. M. Two-story wooden tenement building, No. 65 (rear) Lake avenue, owned by Jas. J. Byrne, and occupied by several Greeks. Fire started in a closet, from some unknown cause, and extended to partition. Extinguished with chemicals. Box pulled by Theodore Huot. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3. Value of building, \$1,500; damage, \$100; insurance, \$1,200; insurance paid, \$100. No damage to contents.

STILL. Sunday, June 22, 12.45 P. M. Chimney fire in cottage house, No. 621 Somerville street, owned by George L. Southwick, and occupied by A. L. Burdick. Truck 7 responded.

STILL. Sunday, June 22, 2.15 P. M. Ash-chute connected to three-story brick block, No. 23 Pearl street, owned by Daniel Readey, and occupied by Joseph Laplante. Squad A responded.

STILL. Monday, June 23, 8.30 P. M. Chimney fire in two-and-half-story wooden tenement house, No. 19 Parker street, owned by W. H. Ansell, and occupied by Mrs. Henry Harmon and others. Members of Engine 2 responded with wagon.

STILL. Tuesday, June 24, 8.56 P. M. Three-story wooden tenement block, No. 160 Lake avenue, owned by B. W. Blodgett, and occupied by Edmond Root and others. Cause, cigarette thrown on roof. Squad A and Truck 1 responded.

STILL. Wednesday, June 25, 6.12 P. M. Chimney fire in three-story wooden building, No. 354 Pine street, owned and occupied by the Dustwax Manufacturing Co. Squad A responded. No services required.

Box 71. Wednesday, June 25, 7.21 P. M. Three-and-half-story wooden dwelling house, No. 181 Cedar street, owned by Hyman Heifetz, and occupied by George Georgiopoulos. Slight fire among rags in closet. Cause, unknown. Box pulled by E. Todis. Companies

responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Saturday, June 28, 1.45 A. M. Two-story wooden tenement block, No. 25 Amherst street, owned by Mrs. Wm. R. Burleigh, and occupied by O. Slupecki. Rubbish on roof. Cause, unknown. Extinguished with pail of water by Squad A.

STILL. Saturday, June 28, 1.05 P. M. Brush fire on Martin's Ferry road, on land owned by George A. Campbell. Squad A responded with eleven men. On duty one hour. Used 1 pony extinguisher.

STILL. Saturday, June 28, 2.59 P. M. On account of inattention to the fire referred to above, as left by the members of this department, it rekindled and spread to the field adjoining the farm house. Squad A responded. On duty two hours. Used 2 pony extinguishers.

STILL. Saturday, June 28, 5.00 P. M. Pile of railroad ties on the Portsmouth Branch of the Boston & Maine Railroad, at the Willow street crossing. Cause, sparks from a locomotive. Hose 3 responded.

Box 542. Sunday, June 29, 10.34 A. M. Cottage house, No. 724 Second street, owned and occupied by Carl Schellenberg. Cause, heating varnish on stove. Box pulled by citizen. Companies responding: Engines 2, 6; Squad A; Truck 6. Value of building, \$2,500; damage, \$50; insurance, \$2,500; insurance paid, \$50. Value of contents, \$800; damage, \$10; insurance, \$500; insurance paid, \$10.

STILL. Sunday, June 29, 2.00 P. M. Grass fire at the corner of Mammoth road and Bridge street, on land owned by Bishop George A. Guertin. Combination 2 responded.

STILL. Tuesday, July 1, 7.15 A. M. Board fence, corner of Notre Dame avenue and Wilton street, owned by Joseph Lariviere. Extinguished with a few pails of water by members of Engine 2.

STILL. Tuesday, July 1, 4.47 P. M. Forest fire at "Pine Lodge" in Auburn. Squad A responded with delegation from Central station.

Box 71. Wednesday, July 2, 8.07 A. M. Two-and-half-story wooden tenement house, No. 126 Lake avenue, owned by Samuel Katz, and occupied by Samuel Morrisette. Slight fire in bed. Cause, unknown. Extinguished before arrival of apparatus. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Wednesday, July 2, 1.45 P. M. Waste-box in rear of No. 29 Spruce street. Extinguished with pail of water by Squad A.

STILL. Thursday, July 3, 12.10 A. M. Three-story brick building, corner of Douglas and West streets, owned by the estate of Edward Wagner. Cause, smoke from baker's oven. Members of Engine 2 responded with wagon.

STILL. Thursday, July 3, 10.58 A. M. Four-story wooden block, No. 66 School street, owned by H. W. Loxton, and occupied by eight families. Cause, meat burning on stove. Members of Engine 2 responded with wagon.

STILL. Thursday, July 3, 12.35 P. M. Brush fire at Franklyn Park,

near Hanover street, on land owned by Frank and John Bolden. Squad A responded.

STILL. Thursday, July 3, 4.45 P. M. Brush fire on Bridge street extension, on land owned by the Manchester Coal and Ice Co. Squad A responded.

STILL. Thursday, July 3, 8.20 P. M. Three-story wooden block, corner of Brown avenue and Hancock street, owned by the heirs of Daniel Connor, and occupied by several families. Slight fire on roof, caused by fireworks. Hose 3 responded. Used 1 pony extinguisher.

Box 4. Thursday, July 3, 9.41 P. M. Two-and-half-story wooden tenement building, No. 40 Cedar street, owned by Maurice J. Connor, and occupied by G. S. Bogamin. Cause, fireworks. Damage, \$5; fully insured. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose, 1, 3; Squad A; Trucks 1, 3.

Box 71. Thursday, July 3, 10.42 P. M. Three-and-half-story wooden tenement block, No. 112 Lake avenue, owned by Henry I. Haselton, and occupied by Lazar C. Stoia, grocer, and others. Cause, fireworks. Damage, \$5; fully insured. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Friday, July 4, 1.15 A. M. Bonfire on corner of Union and Green streets, also another on Grove street, just east of Union. Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Friday, July 4, 2.40 A. M. Bonfire on Park common, set by boys. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, July 4, 9.10 A. M. One-story woodshed in rear of No. 68 Orange street, owned by the John C. Young estate. Squad A and Truck 1 responded. Used a pail of water.

STILL. Friday, July 4, 1.15 P. M. Grass fire on Notre Dame avenue, on land owned by St. Patrick's parish. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Friday, July 4, 1.32 P. M. Cottage house, No. 601 Hall street, owned by Sarah J. Carr, and occupied by John Carlin. Fire under piazza, caused by fireworks. Squad A responded. Value of building, \$2,100; damage, \$14.08; insurance, \$1,500; insurance paid, \$14.08.

STILL. Friday, July 4, 2.05 P. M. Ash barrel in rear of No. 122 Lake avenue, owned by Peter Burns. Squad A responded.

STILL. Friday, July 4, 3.21 P. M. Brush fire on Willow street, in the Harvey district. Squad A responded.

STILL. Friday, July 4, 3.35 P. M. Cottage house, corner of Mast and Harriett streets, owned by Edmond Pinard, and occupied by E. R. Gagnon. Extinguished with garden hose by members of Engine 2.

Box 242. Friday, July 4, 4.27 P. M. Two-story wooden dwelling house, No. 383 Manchester street, owned by John L. Batchelder, and occupied by Mrs. Ellen A. Clay. Fire on roof, caused by fireworks. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical; Hose 2; Combination 2; Squad A; Truck 3. Value of building, \$1,200; damage, \$10; insurance, \$900; insurance paid, \$5.

Box 21. Friday, July 4, 8.37 P. M. Three-story wooden tenement block, No. 161 Central street, owned by the Barry heirs, of Boston, Mass., and occupied by William Howe and others. Fire on roof, caused by fireworks. Box pulled by Frank Monnelley. Companies responding: Engines, 3, 4, Chemical; Hose 2; Combination 2; Squad A; Trucks 1, 3. Value of building, \$3,600; damage, \$14.65; insurance, \$3,600; insurance paid, \$14.65.

STILL. Friday, July 4, 10.15 P. M. Brush fire in Derryfield park, caused by fireworks. Combination 2 and delegation from Engine and Ladder 3 responded.

Box 521. Friday, July 4, 10.33 P. M. Two-story barn and storehouse, Nos. 30-34 Wallace street, owned and occupied by the People's Wet Wash Laundry Co. Slight fire on roof, caused by fireworks. No damage. Box pulled by citizen. Companies responding: Engines 2, 6; Squad A; Truck 6.

STILL. Sunday, July 6, 1.35 P. M. Telegraph poles, on Turner street, at the foot of Walker street, on land owned by the Amoskeag Manufacturing Co., and occupied by the New England Telephone & Telegraph Co. Members of Engine 2 responded with wagon. Used 1 pony extinguisher and laid 150 feet of hose from hydrant.

Box 14. Sunday, July 6, 6.56 P. M. Two-story barn in rear of No. 92 Prospect street, owned by Mrs. Henrietta Barnett of Penacook, N. H., and occupied by Stephanie Daigneault and Alfred Laplante. Cause, gas-lighter. Box pulled by citizen. Companies responding: Engines 4, 5, Chemical; Hose 2; Squad A; Truck 5.

Value of building .....		\$3,800.00
Damage to building .....		950.00
Insurance on building .....		2,500.00
Insurance paid .....		909.00
Value of contents .....	Daigneault.	Laplante.
	\$1,500.00	\$1,200.00
Damage to contents .....	200.00	687.91
Insurance on contents .....	None	750.00
Insurance paid .....	None	500.00

Box 211. Monday, July 7, 12.30 A. M. The remains of a house and barn, No. 232 Cody street, which was partially destroyed by fire on April 30, 1911, and had not been rebuilt, now owned by Platts Brothers. Cause, supposed to be tramps. Box pulled by citizen. Companies responding: Engine 7; Combination 2; Squad A; Truck 7.

STILL. Thursday, July 10, 12.32 P. M. Chimney fire in two-story wooden tenement house, No. 69 Mill street (Amoskeag), owned by the Amoskeag Manufacturing Co., and occupied by Thomas Fahey. Squad A responded. Laid 100 feet of hose from hydrant.

STILL. Friday, July 11, 9.41 A. M. Three-story wooden building, No. 38 Bridge street, owned by Dan Daoust, and occupied by Sam Finman,

as a notion and fancy goods store. Squad A responded. Used 1 chemical tank.

STILL. Friday, July 11, 3.40 P. M. Two-story wooden tenement house, No. 351 Douglas street, owned by the heirs of F. E. McKean, and occupied by Joseph Picard. Cause, defective chimney. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Saturday, July 12, 2.15 P. M. Brush fire on Kelley and Morgan streets, on land owned by Thos. D. Paris. Members of Engine and Ladder 6 responded.

STILL. Saturday, July 12, 4.25 P. M. Brush and grass fire at the old driving park on Willow street. Hose 3 responded.

STILL. Saturday, July 12, 5.15 P. M. City dump on Putnam street. Members of Engine and Ladder 6 responded with wagon.

STILL. Sunday, July 13, 5.41 P. M. Fence on north end of Pine Grove Cemetery, on Calef road. All out on arrival of Hose 3.

STILL. Tuesday, July 15, 11.35 A. M. Grass and spruce hedge, corner of Elm and West North streets, on land owned by Mrs. Marion C. Smyth. Squad A and hose wagon of Engine and Ladder 5 responded.

STILL. Tuesday, July 15, 3.00 P. M. Brush fire on Bald Hill road, on land owned by Mrs. Ella Fogg. Combination 2 responded.

STILL. Saturday, July 19, 11.40 A. M. Small henhouse at No. 34 Abbott street (Glenwood), owned by Wilfrid Gendron. Cause, boys. All out on arrival of members of Engine 2.

STILL. Sunday, July 20, 12.55 P. M. Four-story wooden tenement block, No. 14 Third street, owned by H. W. Loxton, and occupied by several families. Slight fire in a chest, extinguished with a pail of water by members of Engine 2.

STILL. Sunday, July 20, 1.20 P. M. Grass fire at the corner of Elm and Clarke streets, on land owned by Chas. B. Manning. Squad A and members of Engine and Ladder 5 responded. Used 2 pony extinguishers.

STILL. Sunday, July 20, 1.35 P. M. Brush fire on Goffstown road, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Sunday, July 20, 3.01 P. M. Brush fire in Derryfield park. Squad A responded.

STILL. Sunday, July 20, 5.35 P. M. Brush fire on Derry road, south of Mosquito pond, on land owned by J. Dana French. Squad A responded.

STILL. Sunday, July 20, 9.45 P. M. Rekindling of brush fire on Derry road. Squad A responded.

Box 16. Monday, July 21, 7.45 A. M. Three-story wooden tenement block, No. 156 Bridge street, owned by Cavanaugh & Shea, and occupied by James Kenney and others. Cause, couch. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical; Hose 1, 2; Squad A; Trucks 1, 5.

STILL. Monday, July 21, 11.07 A. M. Rekindling of brush fire on Derry road. Squad A responded. On duty seven hours.

STILL. Monday, July 21, 12.10 P. M. Grass fire on a vacant lot on Somerville street. Truck 7 responded.

2—2—2. Monday, July 21, 3.10 P. M. Forest fire on Derry road, at Mosquito pond, got beyond control of delegation sent this forenoon. Detail of about forty men, from several companies, sent. On duty three hours.

STILL. Tuesday, July 22, 9.15 A. M. Grass fire on Valley street, on land owned by the Drew Machinery Co. Truck 7 responded.

STILL. Tuesday, July 22, 10.15 A. M. Continuation of forest fire at Mosquito pond. Squad A responded.

2—2—2. Tuesday, July 22, 11.52 A. M. For additional help at the forest fire at Mosquito pond. Sent delegation of about forty men from several companies. On duty six hours.

STILL. Tuesday, July 22, 1.24 P. M. Grass fire on Baker street, on land owned by Timothy McKenna. Cause, sparks from a Boston & Maine locomotive. Hose 3 responded. Used 2 pony extinguishers.

STILL. Tuesday, July 22, 1.37 P. M. Grass fire near the Portsmouth Branch of the Boston & Maine Railroad, between Willow and Union streets. Cause, sparks from shifter. Hose 3 responded. Laid 100 feet of hose from hydrant.

STILL. Wednesday, July 23, 1.15 P. M. Grass and railroad ties on the right of way of the Lawrence and Portsmouth Branches of the Boston & Maine Railroad. Hose 3 responded. Used 1 pony extinguisher.

STILL. Wednesday, July 23, 9.26 P. M. An automobile, *en route*, on Proctor road, owned by Cloutier & Provost. Cause, back-fired. Squad A responded. Used 1 pony extinguisher and 1 chemical tank. Value of automobile, \$900; damage, \$500; insurance, \$500; insurance paid, \$500.

STILL. Saturday, July 26, 9.10 A. M. Chimney fire in four-story brick block, No. 1292 Elm street, owned by Edwin Kennedy and others, and occupied by several families. Squad A responded. Used 1 chemical tank.

STILL. Saturday, July 26, 12.51 P. M. Brush fire on about ten acres of "scrub land" on Mill road and Lawrench Branch of the Boston & Maine Railroad. Squad A and Hose 3 responded. Used 1 pony extinguisher.

STILL. Saturday, July 26, 1.40 P. M. For additional aid at foregoing brush fire on Mill road, on land owned by James Thompson of Hooksett. Members of Engine and Ladder 7 responded.

STILL. Saturday, July 26, 3.58 P. M. Brush fire on the Bedford Plains, in Bedford, on land owned by Fred Ray and others. Squad A responded as far as the Bedford line. Services not required.

STILL. Saturday, July 26, 8.55 P. M. Three-story wooden tenement

house, No. 520 Maple street, owned by the estate of Charles Carpenter of Chichester. Cause, kerosene lamp tipped over. Hose 2 responded. Services not required.

STILL. Sunday, July 27, 12.11 P. M. Brush fire between Calef road and Willow street, on land owned by the C. C. Webster estate and Mrs. L. M. Flanders. Squad A and Hase 3 responded.

2—2—2. Sunday, July 27, 1.37 P. M. Brush fire on South Beech street. Delegation from several companies responded.

STILL. Sunday, July 27, 2.10 P. M. Grass fire on Hanover street and Bell avenue. Combination 2 responded.

STILL. Sunday, July 27, 2.45 P. M. Brush fire at the Amoskeag ledge, north of Derryfield park. Squad A responded.

STILL. Sunday, July 27, 3.10 P. M. Brush fire on Mammoth road, on land owned by the Amoskeag Manufacturing Co. Combination 2 responded. Used 10 pony extinguishers.

Box 213. Sunday, July 27, 4.18 P. M. Grass fire on Willow and Maple streets, on land owned by A. H. Hale. Box pulled by citizen. Companies responding: Engines 3, 7, Chemical; Hose 2. 3; Squad A; Trucks 3, 7.

STILL. Sunday, July 27, 7.03 P. M. Brush fire on Mammoth road, on land owned by Andrew Sandine. Squad A responded.

STILL. Sunday, July 27, 9.47 P. M. Chimney fire in cottage house, No. 92 Orange street, owned by Abbott Gile, and occupied by George Chartrain. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, July 28, 10.15 A. M. Rekindling of yesterday's brush fire on Mammoth road, on land owned by Andrew Sandine. Squad A responded.

STILL. Monday, July 28, 5.50 P. M. Chimney fire in cottage house, No. 92 Orange street, owned by Abbott Gile, and occupied by George Chartrain. Squad A responded.

STILL. Wednesday, July 30, 9.20 P. M. Wooden dwelling house, No. 120 Central street, owned by John Rosemus, and occupied by John Gobis. Cause, mattress fire. Squad A responded. No services.

STILL. Thursday, July 31, 8.20 A. M. Chimney fire in cottage house, No. 347 Maple street, owned and occupied by Mrs. S. A. Richardson. Members of Engine and Ladder 3 responded.

Box. 213. Thursday, July 31, 8.38 A. M. Cottage house, No. 324 Shasta street, owned and occupied by G. Desrosiers. Cause, defective chimney. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 3, 7, Chemical; Hose 2. 3; Squad A; Trucks 3, 7. Value of building, \$750; damage, \$35; insurance, \$500; insurance paid, \$35. No damage to contents.

STILL. Thursday, July 31, 9.57 A. M. Junk dealer burning insulation off copper wire, near Oak Hill reservoir. Squad A responded.

STILL. Thursday, July 31, 11.50 A. M. Four-story brick shoe shop on J. Hall road, owned and occupied by the W. H. McElwain Co. Cause,



ignition of dust in blowpipe. Squad A responded. Used 1 pony extinguisher.

Box 4. Thursday, July 31, 2.57 P. M. Two-and-half-story wooden dwelling house, No. 57 (rear) Central street, owned and occupied by Rouvalis Brothers. Cause, sparks on roof. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3. Value of building, \$2,500; damage, \$50; insurance, \$1,000; insurance paid, \$50.

STILL. Thursday, July 31, 6.00 P. M. Chimney fire in dwelling house, No. 305 Bridge street, occupied by J. T. Hermagan. Hose 2 responded. Used 1 pony extinguisher.

STILL. Friday, August 1, 2.30 P. M.. Three-story wooden tenement block, No. 41 Clinton street, owned by Gedeon Lariviere, and occupied by ten families. Slight fire in closet from some unknown cause. Members of Engine 2 responded with wagon. Used 1 chemical tank.

STILL. Saturday, August 2, 9.17 A. M. Chimney fire in cottage house, No. 131 Parker street, owned and occupied by Daniel Murphy. Members of Engine 2 responded with wagon. Used 2 pony extinguishers.

Box 214. Saturday, August 2, 5.56 P. M. A small office building in city yard, corner of Valley and Maple streets, owned and occupied by the city of Manchester. Cause, unknown. Box pulled by citizen. Companies responding: Engines 3, 7; Hose 2, 3; Combination 2; Squad A; Trucks 3, 7. Value of building, \$75; damage, \$25; no insurance. No damage to contents.

STILL. Sunday, August 3, 5.13 P. M. Brush fire on Goffstown road, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

Box 9. Monday, August 4, 5.46 A. M. Two-story dwelling house, No. 788 Chestnut street, owned by Jacob J. Abbott, and occupied by E. B. Guess, who had his furniture crated for shipment to St. Louis, Mo. Fire originated in cellar from some unknown cause. Box pulled by B. C. Cann, driver of Truck 5. Companies responding: Engines 4, 5, Chemical; Hose 1; Squad A; Truck 5. Value of building, \$3,500; damage, \$300; insurance, \$3,000; insurance paid, \$300. Value of contents, \$2,000; damage, \$588.67; insurance, \$2,000; insurance paid, \$588.67.

STILL. Wednesday, August 6, 2.30 P. M.. Ash box attached to three-story wooden building, No. 145 (rear) Manchester street, owned by John Bateley. Squad A responded. Used 1 pony extinguisher.

Box 321. Thursday, August 7, 7.50 A. M. Three-story wooden tenement building, No. 323 Dubuque street, owned by Mrs. G. R. Godin, and occupied by O. Laframboise. Fire in closet from some unknown cause. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Trucks 1, 6.

Box 71. Friday, August 8, 10.10 A. M. Two-and-half-story wooden tenement building, No. 146 East Spruce street, owned by Rachel Perol-

man, and occupied by Mrs. Rosa Hoffman. Fire in bed from some unknown cause. Extinguished with chemicals. Box pulled by a boy. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3. Value of building, \$3,000; damage, \$20; insurance, \$1,000; insurance paid, \$20. Value of contents, \$500; damage, \$20; insurance, \$500; insurance paid, \$20.

STILL. Saturday, August 9, 4.45 P. M.. Four-story brick block, No. 15 Amherst street, owned by the Chas. D. Towne heirs, and occupied as a barber shop by E. Chassé. Cause, breaking of bottle of hair tonic and contents coming in contact with gas flame. Squad A responded. Used 1 pony extinguisher.

Box 71. Saturday, August 9, 5.05 P. M. Three-story wooden tenement block, No. 255 Pine street, owned by the Hassan Roustem Co., and occupied by several families. Slight fire on roof, caused by sparks from chimney. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

Box 313. Saturday, August 9, 11.55 P. M. Three-story wooden block, No. 34 Marion street, owned by E. L. Gresley, and occupied as a bake-shop by John Gossler. Heavy smoke from chimney caused some person to think there was a fire. Box pulled by citizen. Companies responding: Engines 2, 4, 6; Hose 1; Squad A; Trucks 1, 6.

STILL. Monday, August 11, 2.53 P. M. False alarm, caused by an unadjusted thermostat in the Cohas shoe shop, on Willow street. Hose 3 responded.

STILL. Tuesday, August 12, 1.56 P. M. Grass fire on Baker and Willow streets, on land owned by T. McKenna, caused by sparks from a Boston & Maine locomotive. Hose 3 responded.

STILL. Wednesday, August 13, 9.05 A. M. Four-story brick block, No. 182 Chestnut street, owned by I. Resnick, and occupied by Arthuras Arasus. Slight fire in bed. Squad A responded. Used 1 pony extinguisher.

Box 4. Wednesday, August 13, 10.00 P. M. Small one-story barn in rear of No. 507 Elm street, owned by E. M. Slayton, and occupied by Kostas Paupis. Cause, cigarette stub. Extinguished with chemicals. Damage slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

Box 5. Saturday, August 16, 10.32 A. M. One-and-half-story wooden building, No. 38 Merrimack street, owned by the K. of P. Associates, and occupied by Nap. Richard for bicycle repairing, etc. Cause, kettle of grease boiling over on a gasoline stove. Extinguished before arrival of apparatus. Box pulled by citizen. Companies responding: Engines 1, 3, 4, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Saturday, August 16, 11.45 A. M. A smokey stove in dwelling house, No. 39 Lingard street, owned by Samuel B. Hayes, and occupied by Oscar Theim. Hose 3 responded.

STILL. Saturday, August 16, 5.40 P. M. Grass fire in a meadow on

the Londonderry and Corning roads, on land owned by John S. Lovering. Squad A responded.

STILL. Sunday, August 17, 10.50 A. M. False alarm, caused by an unadjusted thermostat in the Geo. R. Jones Shoe Co., corner of Second and West Hancock streets. Members of Engine 2 responded with wagon.

Box 512. Sunday, August 17, 11.12 A. M. Chimney fire in three-story wooden dwelling house, No. 4 Gates street, owned by Philip Rogler, and occupied by Samuel Heasmin. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 6.

STILL. Sunday, August 17, 12.27 P. M. Brush fire on Calef road and Mystic street, on land owned by the Home Land Co. Cause, burning brush without sufficient help to control same. Hose 3 responded. Used 2 pony extinguishers.

STILL. Sunday, August 17, 2.17 P. M. Brush fire on Calef road, opposite north end of Pine Grove Cemetery, on land owned by the Home Land Co. Hose 3 responded. Used 2 pony extinguishers.

STILL. Monday, August 18, 1.05 P. M. Brush fire on Bedford road, at the West Side Rifle Range. Squad A responded. Used 2 pony extinguishers.

STILL. Monday, August 18, 5.55 P. M. One-story wooden building, No. 305 Elm street, owned and occupied by Charles A. Bailey as granite works. Cause, "short circuit" of electric wires. Damage to motor, \$100; no insurance. Squad A responded. Used 1 chemical tank.

STILL. Tuesday, August 19, 5.50 A. M. Brush fire in rear of No. 96 Mystic street, on land owned by the Home Land Co. Hose 3 responded. Used 2 pony extinguishers and laid 900 feet of hose from hydrant. On duty four hours.

STILL. Tuesday, August 19, 6.13 A. M. Kettle of boiling tar on roof of Central Plant of the W. H. McElwain Co., in South Manchester. Squad A responded.

STILL. Tuesday, August 19, 3.00 P. M. Brush fire west of Rock Rimmon, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder 6 responded.

Box 54. Wednesday, August 20, 12.30 A. M. One-story wooden building, No. 456 South Main street, owned by H. C. Snell, and occupied by him and H. L. Dobbins as a grocery and candy store. Cause, unknown. Box pulled by Martin Van Tanzier. Companies responding: Engines 2, 6; Squad A; Truck 6. Value of building, \$1,000; damage, \$265; insurance, \$600; insurance paid, \$265. Value of contents, \$3,500; damage, \$2,200; insurance, \$3,100; insurance paid, \$2,200.

STILL. Wednesday, August 20, 11.25 A. M. Brush fire on Coolidge avenue, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder 6 responded.

STILL. Wednesday, August 20, 11.27 A. M. Brush fire on Mill road,

near Pine Island park, on land owned by the Manchester Street Railway. Hose 3 and Squad A responded. On duty three and one half hours.

2—2—2. Wednesday, August 20, 11.40 A. M. Brush fire on Mammoth road, east of Derryfield park. Combination 2 and delegations from Engine 4 and other companies responded.

STILL. Wednesday, August 20, 11.50 A. M. Brush fire on Campbell street, near Hooksett road. Members of Engine and Ladder 5 responded.

GENERAL ALARM. Wednesday, August 20, box 21, 12.09, 12.12 and 12.21 P. M. A fire of a very threatening nature started in rear of two-story wooden building, No. 213 Manchester street, owned and occupied by the Finney Upholstery and Window Cleaning Co., from some unknown cause, and obtained such headway before the alarm was given, that, upon the arrival of the apparatus, several buildings on both east and west sides of the Finney building were wholly enveloped in flames. The second and third alarms were immediately given, calling out the entire Department, and also the Coolidge Hose Wagon of the Amoskeag Mills, their steamer being in the repair shop. On the east the fire communicated with the buildings, No. 217 Manchester street, owned by Mrs. Emily G. Dyer, and occupied by the New Hampshire Rug Co.; Nos. 219-221, owned by Joseph Dorchowski, and occupied by several families; Nos. 223-225, owned by Mrs. G. D. Sanborn, and occupied by several families; while on the west it communicated with an unoccupied one-story building, owned by C. W. Gray; No. 201, the old brass foundry, owned by the heirs of D. B. Varney, and occupied by J. D. Healy, metal worker, C. R. Sawyer, garage and repair shop, and Young Brothers, storage of ladders; No. 195, owned by Levi Dodge, and occupied by L. M. George as a blacksmith shop. Crossing the back street, the old Merrimack-street church, owned by the St. Hedwidge Polish Catholic parish, was entirely destroyed; adjoining this on the west the convent of the same society was considerably burned on one side and roof, and also damaged by water; No. 156 Merrimack street, owned by the estate of Edward Wagner, and occupied by the Jacob and Sullivan families; Nos. 186-188, owned by Wladyslaw Ciesla, and occupied by several families; Nos. 192-196-198, owned by the Manchester Realty Co., and other buildings damaged by flying cinders and sparks. First alarm pulled by citizen, second and third by order of engineers. Companies responding: Engines 1, 2, 3, 4, 5, 6, 7. Chemical; Hose 1, 2, 3; Combination 2; Trucks 1, 3, 5, 6, 7; Hose Wagon of the T. J. Coolidge Steamer Co. of the Amoskeag Mills. Value of buildings, \$35,100; damage, \$13,255.74; insurance, \$26,650; insurance paid, \$9,905.74. Value of contents, \$15,700; damage, \$7,468; insurance, \$5,750; insurance paid, \$3,918.

STILL. Wednesday, August 20, 3.30 P. M. Brush fire on Arah street, on land owned by John Campbell. Squad A responded.

STILL. Wednesday, August 20, 6.10 P. M. Rekindling of ruins of St. Hedwidge church on Merrimack street. Squad A responded. Used 1 chemical tank, and laid 400 feet of hose from hydrant.

STILL. Wednesday, August 20, 7.30 P. M. Rekindling of brush fire on Arah street. Squad A responded.

STILL. Wednesday, August 20, 9.35 P. M. An old tree at the corner of Merrimack and Beech streets, which was set afire by one of the steamers while working at this afternoon's fire. Squad A responded. Used 1 chemical tank.

STILL. Thursday, August 21, 12.07 P. M. Brush fire on Arah street, on land owned by John Campbell. Squad A responded.

STILL. Thursday, August 21, 1.30 P. M. Grass fire on Mammoth road, on land owned by the Gulf Refining Co. Squad A responded.

STILL. Thursday, August 21, 3.13 P. M. Smouldering embers in two-story wooden garage of C. R. Sawyer, No. 201 Manchester street. Squad A responded. Used water from faucet.

STILL. Thursday, August 21, 7.30 P. M. Ash box at the Eureka shoe shop on Silver street, owned by the W. H. McElwain Co. Cause, hot ashes. Truck 7 responded. Used 2 pony extinguishers.

STILL. Friday, August 22, 10.25 A. M. Brush fire on Mammoth road, near "Manchester Center," on land owned by Isaac Huse. Squad A responded.

STILL. Friday, August 22, 10.40 A. M. Grass fire on bank beside the Portsmouth and Lawrence Branches of the Boston & Maine Railroad. Cause, sparks from a locomotive. Hose 3 responded.

STILL. Friday, August 22, 11.20 A. M. Two-story wooden tenement house, No. 454 Chestnut street, owned by the heirs of S. W. Parsons, and occupied by several families. Cause, rubbish in cellar. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, August 22, 11.20 A. M. Two-story wooden tenement house, No. 454 Chestnut street, owned by the heirs of S. W. Parsons, and occupied by several families. Cause, rubbish in cellar. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, August 22, 3.03 P. M. Fire in pile of sawdust, in dump, near the Cobas shoe shop on Willow street, on land owned by the Cobas Building Association. Hose 3 responded. Used 2 pony extinguishers and laid 200 feet of hose from hydrant.

STILL. Friday, August 22, 4.47 P. M. Rekindling of yesterday's brush fire on Arah street. Squad A responded.

STILL. Saturday, August 23, 6.32 P. M. Brush fire on Dunbarton road, on land owned by Ed. Farmer. Squad A responded. Used 2 pony extinguishers.

Box 21. Sunday, August 24, 2.04 P. M. Two-story wooden tenement house, No. 115 Central street, owned by Kate Cullity, and occupied by Maggie Leonard and A. D. Danielson. Cause, unknown. Box pulled by Police Officer Sweeney. Companies responding: Engines

1, 3, Chemical; Hose 1; Squad A; Trucks 1, 3. Value of building, \$2,500; damage, \$1,000; insurance, \$1,000; insurance paid, \$876. Value of contents, \$1,200; damage, \$225; insurance, \$700; insurance paid, \$210.

STILL. Sunday, August 24, 2.30 P. M. Grass fire on Amherst and Highland streets, on land owned by John H. Andrews. Combination 2 responded. Used 2 pony extinguishers.

Box 213. Sunday, August 24, 4.39 P. M. Loose hay in rear of barn, corner of Lincoln and Vinton streets, owned by Ammi Squire. All out before arrival of apparatus. Box pulled by citizen. Companies responding: Engines 3, 7, Chemical; Hose 2, 3; Squad A; Trucks 3, 7.

STILL. Monday, August 25, 4.12 P. M. Brush fire on Bald Hill road. Squad A responded.

Box 71. Monday, August 25, 7.44 P. M. Two-and-half-story wooden dwelling house, No. 146 East Spruce street, owned by Abraham Perolman, and occupied by Sam Ratner. Rags in closet caught fire from some unknown cause. Box pulled by Benjamin Hoffman. Companies responding: Engines 3, 4, Chemical; Hose 1; Squad A; Trucks 1, 3.

Box 15. Tuesday, August 26, 12.31 A. M.; second alarm, 12.39 A. M. Barn, in rear of No. 131 Orange street, owned by Annie Desrochers, and occupied by Benjamin Beliveau. Cause, unknown. First alarm pulled by Patrick Brady; second, by order of engineers. Companies responding: Engines 1, 3, 4, 5, Chemical; Hose 1, 2; Combination 2; Squad A; Trucks 1, 3, 5. Value of building, \$500; damage, \$400; insurance, \$100; insurance paid, \$100. Value of contents, \$350; damage, \$50; no insurance.

STILL. Tuesday, August 26, 1.32 P. M. Small pile of wood on South Beech street, near the Lawrence Branch of the Boston & Maine Railroad. Hose 3 responded. Used 2 pony extinguishers.

STILL. Tuesday, August 26, 3.32 P. M. One-story wooden building, Nos. 516-534 Elm street, owned by Freeman Higgins & Son, and occupied by the Shirley P. Dodge Co. Cause, overheating of furnace used for heating tires. Squad A responded. Used 1 chemical tank.

STILL. Thursday, August 28, 12.35 P. M. Brush fire on Orchard avenue, on land owned by Mrs. — Dustin. Truck 7 responded. Used 1 pony extinguisher.

STILL. Thursday, August 28, 2.14 P. M. Brush fire on Island Pond road, on land owned by Burke Bros. Cause, burning brush without sufficient help to properly care for it. Squad A responded.

STILL. Friday, August 29, 5.28 P. M. Chimney fire in four-story wooden block, No. 12 Pearl avenue, owned by the estate of Emily Smith, and occupied by L. E. Gilbert. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, August 31, 2.21 A. M. Ash-box in rear of No. 1208 Elm street. Cause, hot ashes. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, September 3, 1.04 P. M. Small boiler house at No. 58 Nashua street, owned by Wm. E. Felch, and occupied by Elmer Bowie. Cause, "back draft" in firebox of boiler. Mrs. Bowie burned about the hands in extinguishing burning clothes on her son who was severely burned. Hose 2 and Squad A responded. Used 1 pony extinguisher.

Box 4. Wednesday, September 3, 10.20 P. M. Four-story brick block, No. 599 Elm street, owned by the estate of Daniel Connor, and occupied by several families. Cause, lace curtain, in tenement occupied by D. Gelinas, in contact with gas flame. No damage, except to the curtain, which was all out on arrival of apparatus. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Thursday, September 4, 5.45 P. M. Chimney fire in three-story wooden house, No. 66 Somerville street, owned and occupied by John Dufraim. Truck 7 responded. Used 2 pony extinguishers and garden hose.

STILL. Thursday, September 4, 7.48 P. M. Chimney fire in one-story wooden building, No. 516 Elm street, owned by Freeman Higgins, and occupied by the S. P. Dodge Co. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, September 9, 9.10 A. M. Four-story brick block, No. 1306 Elm street, owned by Peter Kennedy, and occupied by Chadwick and Cashin, as the Hotel Webster. Cause, poorly constructed cooking range. Squad A responded.

Box 53. Tuesday, September 9, 9.53 A. M. Cottage house, No. 187 Mast street, owned by the U. S. Bobbin & Shuttle Co., and occupied by Charles H. Crandall. Cause, sparks from chimney ignited roof, doing very little damage. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 6.

STILL. Tuesday, September 9, 11.15 A. M. Grass fire on Baker street, west of Elm, on land owned by the estate of Waterman Smith. Hose 3 responded.

STILL. Tuesday, September 9, 11.51 A. M. Four-story brick block, No. 1306 Elm street, occupied by Chadwick and Cashin. Cause, poorly constructed cooking range, which ignited floor. Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Wednesday, September 10, 3.30 P. M. Brush fire on South Beech street, on land owned by Frank Webster and Mrs. Fred Colby, caused by sparks from a Boston & Maine locomotive. Hose 3 responded.

STILL. Sunday, September 14, 10.55 A. M. Four-story brick block, No. 55 Hanover street, owned by Frank P. Johnson, and occupied by Fred L. Wallace. Cause, overheated furnace. Squad A responded. No services required.

Box 325. Monday, September 15, 8.00 P. M. Two-and-half-story wooden dwelling house, No. 575 Dubuque street, owned by Josephine Lemerise, and occupied by her and Hector Trudel. A bed in Trudel's tenement caught fire from some unknown cause. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical; Hose 1; Squad A; Truck 6.

STILL. Tuesday, September 16, 7.00 P. M. Chimney fire in three-story brick tenement block, No. 56 Mechanic street, owned by the Stark Mills, and occupied by Florence Lavallee. Squad A responded.

STILL. Wednesday, September 17, 2.10 P. M. Rubbish in cellar of one-story wooden building, No. 47 Massabesic street, owned by T. F. Landregan, and occupied by Maynard, the Barber. Members of Engine and Ladder 3 responded with wagon. Used 2 pony extinguishers and garden hose.

Box 16. Thursday, September 18, 8.38 A. M. Four-story wooden block, No. 156 Bridge street, owned by Cavanaugh and Shea, and occupied by C. A. Savory. Cause, little child playing with matches set fire to clothes in closet. Box pulled by citizen. Companies responding: Engines 4, 5, Chemical; Hose 1, 2; Squad A; Trucks 1, 5. Value of contents, \$100; damage, \$20; no insurance.

STILL. Thursday, September 18, 8.55 A. M. Four-story brick block, No. 1061 Elm street, owned by the estates of Weston and Fitts, and occupied by sundry parties. Cause, "dead air" in chimney. Hose 1 responded. No services required.

STILL. Thursday, September 18, 5.40 P. M. Two-and-half-story wooden tenement block, No. 24 Dover street, owned by Henry E. Burnham, and occupied by several families. Cause, oil stove. Members of Engine 2 responded with wagon. No services required.

STILL. Sunday, September 21, 7.45 A. M. Chimney fire in cottage house, No. 581 Hanover street, owned and occupied by Frank Buswell. Combination 2 responded. Used 2 pony extinguishers.

Box 7. Monday, September 22, 3.09 A. M. Four-story brick block, Nos. 39-41 Manchester street, owned by Joseph P. Chatel, and occupied by Mrs. Exilia Pelletier, as a lodging house. Cause, rats and matches in partition. Box pulled by Police Sergeant John J. Lynch. Companies responding: Engines 1, 3, Chemical; Hose 1; Squad A; Trucks 1, 3. Value of building, \$20,000; damage, \$144; insurance, \$9,000; insurance paid, \$144. Value of contents, \$1,400; damage, \$50; insurance, \$1,400; insurance paid, \$50.

STILL. Wednesday, September 24, 2.23 A. M. Four-story brick block, No. 180 Chestnut street, owned by N. J. Nussikas Co., and occupied by James Griffin. Cause, overheated stove. Squad A responded. No services required.

Box 62. Friday, September 26, 11.38 P. M. False alarm. Companies responding: Engines 4, 7, Chemical; Hose 3; Squad A; Truck 7.

STILL. Saturday, September 27, 10.37 A. M. Chimney fire in three-



story brick block, No. 79 Bridge street, owned by Frank Provost, and occupied by John Downey. Squad A responded. Used 1 chemical tank.

STILL. Saturday, September 27, 8.12 P. M. Chimney fire in cottage house, No. 32 Webster street, owned and occupied by Mrs. James M. Moore. Members of Engine and Ladder 5 responded.

Box 62. Saturday, September 27, 11.00 P. M. False alarm. Companies responding: Engines 1, 7, Chemical; Hose 3; Squad A; Truck 7.

Box 312. Sunday, September 28, 11.35 P. M. A shed in the rear of No. 406 North Main street, owned by Napoleon Perreault, and occupied by Joseph Therrien. Small amount of kindling wood burned. Cause, unknown. Box pulled by citizen. Companies responding: Engines 2, 4, 6; Hose 1; Squad A; Trucks 1, 6. Value of building, \$9,000; damage, \$40; insurance, \$5,500; insurance paid, \$40. No damage to contents.

STILL. Tuesday, September 30, 2.56 P. M. False alarm, caused by "crossed wires" on the automatic alarm system at the Cohas shoe shop, on Willow street. Hose 3 responded.

STILL. Thursday, October 2, 6.02 P. M. Four-story brick block, No. 292 Pine street, owned by Mrs. Etta Topping, and occupied by Savage Bros. Cause, escaping steam. No fire. Squad A responded.

STILL. Saturday, October 4, 11.00 A. M. Chimney fire in two-story wooden dwelling house, No. 31 Mill street, owned by the Amoskeag Manufacturing Co., and occupied by Henry Garrett. Squad A responded. Used 1 chemical tank.

STILL. Sunday, October 5, 11.42 A. M. Chimney fire in two-story wooden dwelling house, No. 22 Lingard street, owned and occupied by William L. Comire. Hose 3 responded. Used garden hose and 45 feet of ladders.

STILL. Monday, October 6, 8.15 A. M. Chimney fire in three-story wooden block, No. 189 Belmont street, owned by Frank La Flamme, and occupied by him and four other families. Truck 7 responded. No services required.

Box 131 (for 17). Wednesday, October 8, 5.56 P. M. False alarm. Companies responding: Engines 3, 4, Chemical; Hose 1, 2; Squad A; Trucks 1, 3.

Box 71. Wednesday, October 8, 7.07 P. M. Wooden tenement house, No. 112 East Spruce street, owned and occupied by Greeks. Cause, loose paper about chimney. Box pulled by a Greek. Companies responding: Engines 3, 4, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

Box 57. Thursday, October 9, 5.52 P. M. Two-story wooden house in process of construction, No. 358 New Mast road, owned by John C. Gallagher. Cause, spontaneous combustion. Box pulled by citizen. Companies responding: Engine 2; Hose 1; Squad A; Truck 6. Value of building, \$2,400; damage, \$212; insurance, \$2,000; insurance paid, \$212.

STILL. Monday, October 13, 9.02 P. M. Four-story brick block, No. 635 Elm street, owned by the estate of Daniel Connor, and occupied by Cloutier & Provost as a liquor saloon. Cause, beer pump became overheated for want of oil. Squad A responded.

STILL. Wednesday, October 15, 12.10 A. M. Chimney fire in three-story wooden block, No. 7 Barr street, owned by Fred G. Stark, and occupied by eight families. Members of Engine 3 responded with wagon. Used 1 pony extinguisher.

STILL. Wednesday, October 15, 8.45 A. M. Chimney fire in three-story wooden dwelling house, No. 260 Coolidge avenue, owned by Eugene Quirin, and occupied by Camille Zing and others. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Thursday, October 16, 2.30 P. M. Two-story wooden building, No. 923 Elm street, owned by Louise M. Quint, and occupied by Davidson & Tinklebrand. Cause, "back-draft" in chimney. Squad A responded.

Box 324. Friday, October 17, 1.15 A. M. Three-story wooden tenement block, No. 370 Amory street, owned by Paul St. Louis, and occupied by Joseph Coté, Mrs. Gloria Bellaire, Mrs. Zepher Leclerc, Ernest Normandin and Gustav Mathieu. Fire started in basement among some "stored" household goods from some unknown cause. Box pulled by citizen. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 6. Value of building, \$3,500; damage, \$367.50; insurance, \$3,000; insurance paid, \$367.50. Value of contents, \$500; damage, \$75; no insurance.

STILL. Sunday, October 19, 11.07 A. M. Chimney fire in two-story wooden dwelling house, on Platts avenue, owned and occupied by Cyrus A. Kimball. Squad A responded. Used 1 chemical tank.

STILL. Tuesday, October 21, 4.35 P. M. Two-and-half-story wooden block, No. 27 Bridge street, owned by Tom W. Robinson, and occupied by Cyrille Lessard, as a barber shop, and others. Cause, gas heater too near partition. Extinguished before the arrival of the Chemical Engine.

STILL. Tuesday, October 21, 7.40 P. M. Four-story brick shoe shop, corner of J. Hall road and Portsmouth Railroad, occupied by the W. H. McElwain Co. Cause, fire in blow pipe. Truck 3 responded. Used 2 pony extinguishers.

STILL. Wednesday, October 22, 5.33 P. M. Chimney fire in three-story wooden block, No. 537 Chestnut street, owned by E. M. Chase, and occupied by Charles McGowan. Squad A responded. Used 2 pony extinguishers and 1 chemical tank.

STILL. Wednesday, October 22, 5.45 P. M. Electric car, at the corner of Elm and Webster streets, owned by the Manchester Street Railway. Members of Engine and Ladder 5 responded with wagon. Used 1 pony extinguisher.

STILL. Friday, October 24, 9.35 A. M. Three-story brick block, No. 83 Langdon street, owned by the Amoskeag Manufacturing Co., and occupied by Lizzie Thompson. Slight fire in closet. Extinguished before the arrival of Squad A.

STILL. Friday, October 24, 1.50 P. M. Chimney fire in four-story brick block, No. 41 Manchester street, owned and occupied by Joseph P. Chatel. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, October 27, 9.20 A. M. Box of rubbish in rear of No. 116 Merrimack street, owned by Michael Kalinowski. Squad A responded. Used 1 chemical tank.

Box 4. Friday, October 31, 8.41 P. M. Ash-chute in rear of tenement block, No. 609 Elm street, owned by the estate of Daniel Connor. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Saturday, November 1, 10.40 A. M. Three-story wooden dwelling house, No. 128 Orange street, owned and occupied by Charles Montgomery. Partition fire, caused by a defective flue. Squad A responded. Used 1 chemical tank.

STILL. Saturday, November 1, 3.35 P. M. Brush fire on Boynton street, near Erie, on land owned by the Kennard heirs. Members of Engine 2 responded.

STILL. Sunday, November 2, 8.45 A. M. Chimney fire in three-story wooden building, No. 37 Laurel street, owned by Harry Hall, and occupied by Harry Provost. Squad A responded. Used 1 chemical tank.

STILL. Sunday, November 2, 11.26 A. M. Four-story brick block, No. 47 Manchester street, owned and occupied by Noah H. Guay. Cause, "back-draft" in chimney. Squad A responded.

STILL. Sunday, November 2, 7.00 P. M. Chimney fire in three-story wooden tenement block. No. 261 Bridge street, owned by the heirs of J. B. McCrillis. Squad A responded. Used 1 chemical tank.

Box 57. Tuesday, November 4, 12.36 P. M. Chimney fire in cottage house, No. 40 D street, owned by Isenberg & Specter, and occupied by Charles A. Picard. Box pulled by citizen. Companies responding: Engine 2; Hose 1; Squad A; Truck 6.

STILL. Wednesday, November 5, 10.10 A. M. Chimney fire at Nos. 1-2 Washington blocks, 58-60 Pearl street, in three-story wooden building, owned by Charles C. Hayes, and occupied by Andrew Seiptowski and others. Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

Box 82. Wednesday, November 5, 3.47 P. M. Three-and-half-story wooden tenement block, Nos. 1261-1263 Elm street, owned by William McElroy, and occupied by Didier Bretten, Lumina Carignan, Joseph Coté and George Doucet. Cause, child playing with matches. Box pulled by Arthur Teague. Companies responding: Engines 1, 4, 5, Chemical; Hose 1, 2; Squad A; Trucks 1, 5. Value of building, \$25,000;

damage, \$481; insurance, \$17,000; insurance paid, \$481. Value of contents, \$810; damage, \$50; no insurance.

STILL. Wednesday, November 5, 10.50 P. M. Cottage house, No. 24 Chase avenue, owned by I. Resnick, and occupied by Solomon Sheschet. Cause, overheated chimney. Truck 3 responded. Used 2 pony extinguishers.

STILL. Thursday, November 6, 6.30 A. M. A "sawdust spittoon" in pool room, corner of Canton street and Portsmouth Railroad. Members of Engine and Ladder 3 responded. No services required.

STILL. Thursday, November 6, 8.45 A. M. Ash barrel in rear of No. 462 Granite street. Members of Engine 2 responded with wagon.

STILL. Thursday, November 6, 4.30 P. M. Chimney fire in three-story wooden tenement block, No. 96 Douglas street, owned by the Amoskeag Manufacturing Co., and occupied by John Cox. Members of Engine 2 responded with wagon. Used 1 pony extinguisher.

STILL. Thursday, November 6, 4.50 P. M. Three-story wooden tenement block, No. 171 Union street, owned by J. E. Drew, and occupied by several families. Cause, "back-draft" in chimney. Squad A responded.

STILL. Friday, November 7, 1.45 P. M. Cottage house, No. 200 Central street, owned by Frank Gilford, and occupied by Omer St. Peters. Cause, "back-draft" in chimney. Squad A responded.

STILL. Friday, November 7, 7.07 P. M. Arbor-vitae hedge around the lot, No. 184 Myrtle street, owned by Anna Gay. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, November 8, 7.15 P. M. Chimney fire in two-and-half-story woden tenement house, No. 857 Valley street, owned by the Tilton Seminary, and occupied by Oscar Emerson. Truck 7 responded. No services required.

STILL. Saturday, November 8, 9.30 P. M. One-story wooden building, No. 411 Holly avenue, owned and occupied by Charles H. Brunelle. Cause, rats and matches. Truck 7 responded. Used 2 pony extinguishers.

STILL. Sunday, November 9, 3.12 P. M. Chimney fire in two-and-half-story brick dwelling house, No. 65 West Merrimack street, owned by the Amoskeag Manufacturing Co., and occupied by Hanson R. Armstrong. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, November 10, 11.35 A. M. Chimney fire in cottage house, No. 427 Holly avenue, owned and occupied by E. W. Hartford. Truck 7 responded. Used 2 pony extinguishers and 36 feet of ladders.

Box 4. Monday, November 10, 3.45 P. M. Four-story wooden block, No. 29 Spruce street, owned by Frank P. Johnson, and occupied as a tailor shop by Gima Brothers. Cause, defective chimney. Box pulled by George Lapond. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Wednesday, November 12, 10.16 A. M. Smoky chimney in

two-story dwelling. No. 275 Hanover street, owned and occupied by Fred L. Wallace. Squad A responded.

STILL. Thursday, November 13, 5.48 A. M. One-story ell of wooden tenement house, No. 3035 Brown avenue (Goffe's Falls), owned by the Devonshire Mills, and occupied by Joseph Weiss. Cause, unknown. Squad A responded, but a stream from a hydrant at the mills extinguished the fire before their arrival. Value of building, \$2,000; damage, \$129; insurance, \$2,000; insurance paid, \$129. Value of contents, \$300; damage, \$137.50; insurance, \$500; insurance paid, \$137.50.

Box 4. Friday, November 14, 8.37 A. M. One-story wooden building, No. 50 Granite street, owned by the William H. Hale estate, and occupied by J. E. Forest as a motorcycle garage. Cause, lighting fire with kerosene; and in doing so Forest was slightly burned about the hands. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1, 3; Squad A; Trucks 1, 3. Very slight damage to building. Value of contents, \$1,000; damage, \$25; no insurance.

Box 51. Saturday, November 15, 3.28 A. M. One-and-half-story wooden building, corner of Cleveland and Third streets, owned and occupied by Weigler & Hoffman as a sausage factory. Cause, defective smokehouse. Box pulled by Police Officer Manning. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 1, 6. Value of building, \$1,300; damage, \$750; insurance, \$800; insurance paid, \$750. Value of contents, \$2,100; damage, \$1,255; insurance, \$2,000; insurance paid, \$1,255.

STILL. Saturday, November 15, 11.00 A. M. Chimney fire in two-tenement wooden house, No. 510 Wilson street, owned by F. H. Callan, and occupied by Mrs. T. W. Knight. Members of Engine and Ladder 3 responded. Used 2 pony extinguishers.

STILL. Sunday, November 16, 11.00 A. M. Chimney fire in two-story wooden tenement block, No. 328 Hevey street, owned by Adelard Lambert, and occupied by him and others. Members of Engine and Ladder 6 responded. Used 2 pony extinguishers.

STILL. Monday, November 17, 5.39 P. M. Chimney fire in four-story brick block, No. 732 Elm street, owned by the heirs of Oliver B. Green, and occupied by R. B. Reynolds as Hotel Reynolds. Squad A responded. Used 1 chemical tank.

Box 215. Monday, November 17, 9.11 P. M. Four-story brick shoe shop, corner of Lincoln and Silver streets, owned and occupied by the F. M. Hoyt Shoe Co. Cause, electric flatiron left with current on, in the cutting room. Automatic sprinklers opened and caused most of the damage by water. Box pulled by John Moul. Companies responding: Engines 3, 7; Hose 2, 3; Combination 2; Squad A; Trucks 3, 7. No damage to building. Value of contents, \$160,000; damage, \$3,103.19; insurance, \$160,000; insurance paid, \$3,103.19.

STILL. Tuesday, November 18, 11.15 A. M. Smoky chimney in two-and-half-story wooden building, Nos. 118-120 South Main street, owned

by E. C. Brigham, and occupied by F. M. Massé & Co. Members of Engine 2 responded with wagon. No services required.

STILL. Tuesday, November 18, 12.22 P. M. Portable lunch-wagon at the corner of Elm and Bridge streets, owned and occupied by Harry G. Lord. Cause, gasoline leaking on floor. Squad A responded. Used 1 chemical tank.

STILL. Wednesday, November 19, 7.30 P. M. City dump on South Main street, near the Bedford line. Members of Engine 2 responded with wagon. Laid 350 feet of hose from hydrant.

STILL. Wednesday, November 19, 8.00 P. M. Chimney fire in two-story wooden dwelling house, No. 385 Cartier street, owned by John Cronan, and occupied by two families. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

Box 325. Wednesday, November 19, 10.25 P. M. False alarm. Companies responding: Engines 2, 6; Hose 1; Squad A; Truck 6.

Box 6. Thursday, November 20, 11.33 P. M. One-story woodshed in rear of No. 112 Stark street, owned by the Amoskeag Manufacturing Co., and occupied by Irving Barclay. Cause, unknown. Extinguished with chemicals. Box pulled by Police Officer Rourke. Companies responding: Engines 1, 4, Chemical; Hose 1, 2; Squad A; Trucks 1, 5. Value of building, \$600; damage, \$50; insurance, \$600; insurance paid, \$50. Value of contents, \$50; damage, \$30; no insurance.

STILL. Friday, November 21, 12.35 A. M. One-story woodshed in rear of No. 57 Stark street, owned by the American Duck Co., and occupied by John Souika. Cause, unknown. Chemical Engine and Squad A responded. Used 2 chemical tanks. Value of building, \$9,400; damage, \$50; insurance, \$5,350; insurance paid, \$50. Slight damage to contents.

Box 3. Saturday, November 22, 2.29 P. M. One-story wooden box factory, corner of Valley and Pine streets, owned and occupied by Fellows & Son. Cause, hot bearing. Box pulled by Harvey Cloutier. Companies responding: Engines 1, 7, Chemical; Hose 1, 3; Squad A; Trucks 1, 7. No damage to building. Damage to contents, \$300; fully covered by insurance.

STILL. Saturday, November 22, 7.55 P. M. Barrel of rubbish at No. 28 Notre Dame avenue, on the premises of Gedeon Lariviere. Members of Engine 2 responded. Used 1 pony extinguisher.

STILL. Sunday, November 23, 12.15 P. M. Three-story brick block, No. 14 South Main street, owned by Willis B. Kendall, and occupied by Levi Martin and others. Cause, pot of burning meat filled block with smoke. Members of Engine 2 responded with wagon. No services required.

STILL. Sunday, November 23, 2.56 P. M. Grass fire on Goffstown road, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Sunday, November 23, 3.21 P. M. Brush fire between South

Beech street and Calef road, south of Gold street, on land owned by Thompson and Deschenes. Hose 3 responded.

STILL. Monday, November 24, 12.15 A. M. Four-story brick block, No. 101 Amherst street, owned by Dan and John McKenna, and occupied by Georgianna Moulton and others. Fire started in partition in water closet from some unknown cause. Damage slight. Squad A responded.

STILL. Tuesday, November 25, 5.45 P. M. Chimney fire in two-and-half-story wooden tenement block, No. 106 McGregor street, owned by Edward M. James, and occupied by Chris Schricker and others. Members of Engine and Ladder 6 responded with wagon. Used 3 pony extinguishers.

Box 71. Tuesday, November 25, 7.12 P. M. Three-story wooden tenement block, No. 237 Cedar street, owned by George Pappas, and occupied by Apostalas Beordas. Cause, overturning of lamp. Damage slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical; Hose 1; Squad A; Trucks 1, 3. No services required.

STILL. Tuesday, November 25, 7.55 P. M. Cottage house, No. 82 Concord street, owned by William Eastman, and occupied by Joseph Gavenda. Cause, rags in closet. Squad A responded. No services required.

STILL. Wednesday, November 26, 7.10 P. M. Chimney fire in two-story wooden house, No. 43 Winter street, owned by H. R. Armstrong, and occupied by two families. Members of Engine 2 responded with wagon. Used 2 pony extinguishers.

STILL. Thursday, November 27, 9.15 P. M. Two-story wooden dwelling house, No. 498 Cartier street, owned by J. B. Conlon, and occupied by A. Charland and others. Cause, overheated stove funnel. Members of Engine and Ladder 6 responded with wagon.

STILL. Thursday, December 4, 9.39 P. M. Cottage house, corner of Fairview avenue and Mast road, Goffstown. Squad A and members of Engine 2 responded.

STILL. Thursday, December 4, 11.15 P. M. Wooden table factory and lumber yard at Merrimack, N. H., owned and occupied by David R. Jones. Engine 4, with hose wagon and horses, responded by special train, and Squad A responded "over the road." Used 1 chemical tank and laid 2,300 feet of hose from steamer, which worked continually without a "skip or break" for nearly twelve hours, delivering a good heavy stream.

STILL. Friday, December 5, 11.50 A. M. Chimney fire in cottage house, No. 187 Boutwell street, owned by O. C. Lambert, and occupied by Samuel Morin. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

STILL. Friday, December 5, 12.08 P. M. One-story wooden section house, near the Willow-street crossing on the Portsmouth Branch of the Boston & Maine Railroad. Cause, overheated chimney. Hose 3 responded. Used 1 pony extinguisher.

Box 321. Friday, December 5, 11.06 P. M. False alarm pulled by Amedee Bergeron, who was "caught in the act" by Deputy Chief Fitzsimmons, and in Police Court the next morning pleaded guilty and was fined \$10 and costs of \$4.64. Companies responding: Engines 2, 6; Hose 1; Squad A; Trucks 1, 6.

STILL. Monday, December 8, 5.43 P. M. Chimney fire in two-story wooden dwelling house, on Island Pond road, owned by Mrs. William Corey, and occupied by Luc Doucet. Squad A and Truck 3 responded. Used 1 chemical tank.

STILL. Monday, December 8, 6.02 P. M. Chimney fire in three-and-half-story wooden tenement block, No. 64 Cedar street, owned by Anton Shakos, and occupied by several families. Chemical Engine responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Monday, December 8, 6.15 P. M. Chimney fire in cottage house, No. 621 Somerville street, owned by Mr. — Southwick, and occupied by C. L. Burdick. Truck 7 responded. Used 1 pony extinguisher.

STILL. Monday, December 8, 6.40 P. M. Chimney fire in three-story wooden house, No. 127 Hall street, owned and occupied by John Dupuis. Truck 7 responded. No services required.

Box 21. Tuesday, December 9, 11.03 A. M. Three-story wooden tenement block, No. 142 Laurel street and 314 Pine street, owned by Dr. A. F. Wheat, and occupied by Stark Gibson and others. Slight fire among some papers in a closet, doing very little damage. Box pulled by Stark Gibson. Companies responding: Engines 3, 4, Chemical; Hose 1; Squad A; Trucks, 1, 3.

STILL. Wednesday, December 10, 11.50 A. M. Three-story brick tenement block, No. 4 Vine street, owned by Mrs. Josie McGillicuddy of Worcester, Mass., and occupied by Mrs. Annie Metivier and others. Cause, overheated stove. Squad A responded. No services required.

Box 82. Thursday, December 11, 10.51 A. M. Three-story wooden block, No. 1149 Elm street, owned by Mrs. A. H. Weston, and occupied by Sullivan & Co. as a clothing store. Fire originated in basement from some unknown cause. Box pulled by Fred Blanchet. Companies responding: Engines 1, 4, 5, Chemical; Hose 1, 2; Squad A; Trucks 1, 5. Value of building, \$3,000; damage, \$360; insurance, \$2,000; insurance paid, \$360. Value of contents, \$12,500; damage, \$1,525; insurance, \$9,000; insurance paid, \$1,525.

STILL. Thursday, December 11, 5.57 P. M. Chimney fire in three-story wooden tenement block, No. 34 Lowell street, owned by John H. McCabe, and occupied by several families. Squad A responded. Used 2 pony extinguishers.

STILL. Thursday, December 11, 6.15 P. M. Chimney fire in cottage house, No. 179 Winter street, owned by Miss Annie Gavin, and occupied by Hector Morris. Members of Engine 2 responded with wagon. Used 2 pony extinguishers.



STILL. Thursday, December 11, 6.20 P. M. Chimney fire in three-story wooden house, No. 150 Manchester street, owned by Paul Ratner, and occupied by Mary Purington. Squad A responded.

STILL. Thursday, December 11, 8.15 P. M. Chimney fire in cottage house, No. 226 Belmont street, owned by Mrs. — Mitchell, and occupied by Nicholas Venacas. Truck 7 responded.

Box 321. Thursday, December 11, 10.51 P. M. False alarm pulled by Romeo Gauthier and Arthur Houle, who were fined in Police Court the following morning: Gauthier, \$10 and costs of \$4.64; Houle, \$5 and costs of \$4.64. Companies responding: Engines 2, 6; Hose 1; Squad A; Trucks 1, 6.

STILL. Saturday, December 13, 6.50 P. M. Chimney fire in three-story wooden block, No. 282 Massabesic street, owned by Milton C. Paige, and occupied by A. C. Fisher. Members of Engine and Ladder 3 responded. No services required.

STILL. Saturday, December 13, 8.15 P. M. An automobile on Elm street, near Amherst, owned by Dr. John T. Holmes. Cause leaky carburetor. Squad A responded. Used 2 pony extinguishers.

STILL. Monday, December 15, 11.46 A. M. Chimney fire in three-story wooden tenement block, No. 462 Union street, owned by Charles Charon, and occupied by Patrick Sullivan. Squad A responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Wednesday, December 17, 5.25 P. M. Grass fire at the corner of Canal and Sullivan streets. Squad A responded.

STILL. Thursday, December 18, 10.09 P. M. Chimney fire in two-story wooden house, corner of Candia road and Sherburne street, owned by Ames and Lord, and occupied by A. M. Oliver. Members of Engine and Ladder 3 responded. Used 3 pony extinguishers and garden hose.

STILL. Thursday, December 18, 11.00 P. M. Ash box at the corner of Union street and Monadnock lane. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, December 19, 6.10 A. M. Chimney fire in two-story wooden dwelling house, No. 344 North Main street, owned by Max Leinsing, and occupied by two families. Members of Engine and Ladder 6 responded with wagon. Used 1 pony extinguisher.

Box 45. Saturday, December 20, 4.55 P. M. False alarm. Companies responding: Engines 1, 2, Chemical; Hose 1, 3; Squad A; Trucks 1, 3.

STILL. Saturday, December 20, 5.20 P. M. Chimney fire in cottage house, No. 513 Lake avenue, owned and occupied by G. W. Boynton. Members of Engine and Ladder 3 responded. Used 3 pony extinguishers and garden hose.

Box 82. Saturday, December 20, 11.21 P. M. Four-story brick block, No. 1104 Elm street, owned by Mrs. Emily J. Welch and Mrs. Louise Jackson, and occupied by B. Custin & Bro., as a credit furnishing store. Cause, unexplained. Box pulled by Joseph C. Demers. Com-

panies responding: Engines 1, 4, 5, Chemical; Hose 1, 2; Squad A; Trucks, 1, 5. Value of building, \$15,000; damage, \$900; insurance, \$8,000; insurance paid, \$900. Value of contents, \$18,000; damage, \$10,000; insurance, \$13,000; insurance paid, \$9,300.

STILL. Monday, December 22, 6.35 P. M. Grass fire on Belmont street and Cilley road, on land owned by Grace Phillips. Truck 7 responded. Used 1 pony extinguisher.

Box 6. Monday, December 22, 9.51 P. M. One-story woodshed in rear of No. 86 Stark street, owned by the Amoskeag Manufacturing Co., and occupied by Mrs. Ellen Davis. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical; Hose 1, 2; Squad A; Trucks 1, 5. Value of building, \$500; damage, \$30; insurance, \$500; insurance paid, \$30. Value of contents, \$50; damage, \$50; no insurance.

Box 321. Monday, December 22, 10.14 P. M. Three-and-half-story wooden dwelling house, No. 300 Notre Dame avenue, owned by Peter Fleming, and occupied by him, and Belonie Bergeron. Cause, rats and matches. Extinguished with chemicals. Box pulled by Bergeron. Companies responding: Engines 2, 6, Chemical; Hose 3; Squad A; Trucks 3, 6. Value of buildings, \$4,400; damage, \$200; insurance, \$5,000; insurance paid, \$200; value of contents, \$700; damage, \$100; insurance, \$700; insurance paid, \$100.

STILL. Tuesday, December 23, 7.05 P. M. Chimney fire in two-story wooden dwelling house, No. 272 Bartlett street, owned and occupied by William Dery. Members of Engine and Ladder 6 responded with wagon. Used 2 pony extinguishers.

STILL. Thursday, December 25, 1.00 A. M. Four-story wooden tenement block, No. 10 Laurel street, owned by Mrs. Etta Topping, and occupied by James Barry. Cause, slight fire in bed. Extinguished with a pail of water by Squad A.

STILL. Thursday, December 25, 5.35 P. M. Chimney fire in wooden three-tenement block, No. 323 East Spruce street, owned by Michael McDonough, and occupied by him and other families. Members of Engine and Ladder 3 responded. Used garden hose.

Box 71. Sunday, December 28, 7.04 P. M. Ash box in rear of No. 140 Chestnut street, owned by A. Pappacostas and John Siacas. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical; Hose 1; Squad A; Trucks 1, 3.

Box 323. Tuesday, December 30, 10.37 A. M. Two-and-half-story wooden dwelling house, No. 308 Bartlett street, owned and occupied by Joseph G. Gagne. Cause, three-year-old boy playing with a lighted candle under a bed. Box pulled by Leon Baker. Companies responding: Engines 2, 6; Squad A; Truck 6. Value of buildings, \$2,000; damage, \$72; insurance, \$900; insurance paid, \$72. Value of contents, \$500; damage, \$40.25; insurance, \$100; insurance paid, \$40.25.

STILL. Wednesday, December 31, 9.45 A. M. Three-story wooden

tenement block, No. 767 Somerville street, owned by Mr. — Tatro, and occupied by J. J. Collins. Cause, bursting of water front in stove. Truck 7 responded.

Number of Alarms by Months.

	Bell.	Still.	Total.
January .....	5	21	26
February .....	8	58	66
March .....	8	28	26
April .....	7	50	57
May .....	11	44	55
June .....	9	42	51
July .....	15	60	75
August .....	19	43	62
September .....	8	17	25
October .....	5	16	21
November .....	10	36	46
December .....	10	26	36
	115	441	556

COMPANIES RESPONDING.

MONTHS.	ENGINES.							Chemical.	HOSE.			Comb'n 2.	Squad A.	TRUCKS.				
	1	2	3	4	5	6	7		1	2	3			1	3	5	6	7
January ....	4	2	3	2	0	1	0	4	5	1	4	1	14	4	4	1	1	3
February ...	5	2	3	2	1	1	3	7	7	3	6	1	36	4	3	1	1	9
March .....	4	2	4	0	1	2	3	5	4	3	5	4	18	2	4	1	2	7
April .....	4	2	4	1	1	1	2	6	4	3	4	4	33	3	4	1	1	6
May .....	6	2	5	0	1	2	2	9	6	3	7	0	31	7	5	2	2	4
June .....	4	3	4	3	0	3	1	6	5	3	8	2	36	6	4	1	3	2
July .....	4	1	8	4	2	1	3	10	6	7	14	6	45	7	8	2	1	5
August .....	5	5	9	8	3	5	2	9	12	3	15	3	39	10	9	3	5	3
September..	2	3	2	3	1	3	2	6	6	2	6	1	16	4	2	1	3	3
October .....	1	2	3	2	0	1	0	4	5	1	3	0	14	3	4	0	2	1
November..	5	3	4	3	1	2	2	7	9	3	5	1	27	7	5	2	3	5
December ..	5	5	2	5	2	4	0	8	8	3	3	0	21	8	5	2	4	5
Totals.....	50	32	51	33	13	26	20	81	77	35	80	23	330	65	57	17	28	53

## 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 horses for steamer .....	775.00
1 roan horse for hose wagon .....	300.00
4 swinging harnesses .....	200.00
1 pair double exercise harnesses .....	50.00
1 single exercise harness .....	40.00
1,500 feet of fabric hose in good condition .....	785.00
900 feet of fabric hose in damaged condition.....	180.00
Stable fixtures, blankets, etc.....	80.00
Tools, furniture and fixtures .....	200.00
Firemen's suits and badges .....	125.00
<b>Total amount .....</b>	<b>\$7,130.00</b>

## Engine No. 2.

LOCATED ON NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer .....	\$4,000.00
1 combination chemical and hose wagon .....	1,700.00
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
1,250 feet of fabric hose in good condition .....	562.50
1,700 feet of fabric hose in damaged condition .....	340.00
Stable fixtures and blankets .....	94.00
Furniture, fixtures, carpets, etc.....	466.00
Firemen's suits and badges .....	125.00
<b>Total amount .....</b>	<b>\$8,947.50</b>

## Engine and Ladder No. 3.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 first-size Amoskeag steamer .....	\$4,750.00
1 two-horse hose wagon .....	400.00
1 Robinson motor truck and equipment .....	6,650.00

3 horses for steamer .....	550.00
1 pair bay horses for hose wagon.....	400.00
4 exercise harnesses .....	180.00
5 swinging harnesses .....	250.00
2,900 feet of fabric hose in good condition .....	1,305.00
1,000 feet of fabric hose in damaged condition .....	200.00
2 rubber blankets .....	34.00
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 .....	 \$15,774.00

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#### 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 wagon .....	150.00
4 exercise harnesses .....	60.00
4 swinging harnesses .....	200.00
1,500 feet of fabric hose in good condition .....	675.00
Hall furniture, beds, bedding, etc.....	275.00
Stable fixtures and blankets .....	75.00
Firemen's suits and badges .....	125.00
 Total amount .....	 \$6,760.00

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#### Engine and Ladder No. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-size Amoskeag steamer .....	\$3,600.00
1 two-horse rubber-tired hose wagon .....	760.00
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 pair horses for hose wagon .....	525.00
1 exercise wagon .....	325.00
1 double sled .....	50.00
1 single sled .....	25.00

6 swinging harnesses .....	300.00
2 pairs exercise harnesses .....	100.00
2,000 feet of fabric hose in good condition .....	900.00
1,000 feet of fabric hose in damaged condition .....	200.00
1 rubber blanket .....	17.00
Bedding, furniture, tools, etc.....	300.00
Stable fixtures, blankets, etc.....	120.00
Firemen's suits, badges, etc.....	150.00
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Total amount .....	\$9,822.00

### 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 two-horse rubber-tired hose wagon .....	760.00
1 exercise wagon .....	290.00
2 gray horses for steamer .....	300.00
2 bay horses for truck .....	267.00
2 horses for hose carriage .....	450.00
6 swinging harnesses .....	300.00
2,100 feet of fabric hose in good condition .....	945.00
2 rubber blankets .....	34.00
Hall furniture, carpets, beds, bedding, etc.....	475.00
Stable fixtures, blankets, etc.....	85.00
Firemen's suits and badges .....	150.00
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Total amount .....	\$9,236.00

### Engine and Ladder No. 7.

LOCATED ON SOMERVILLE STREET.

1 second-size Amoskeag steamer .....	\$3,500.00
1 hook-and-ladder truck, rubber tired .....	2,250.00
1 two-horse rubber-tired hose wagon .....	760.00
1 exercise wagon .....	325.00
3 horses for steamer .....	850.00
2 horses for truck .....	650.00
2 horses for hose wagon .....	575.00
7 swinging harnesses .....	350.00
2,300 feet of fabric hose .....	1,035.00

2 rubber blankets .....	34.00
Furniture, fixtures, etc.....	575.00
Stable fixtures, blankets, etc.....	90.00
Firemen's suits and badges .....	150.00
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Total amount .....	\$11,144.00

**Hose No. 1.**

LOCATED ON VINE STREET.

1 two-horse rubber-tired hose wagon and wagon gun...	\$850.00
2 horses .....	600.00
2 swinging harnesses .....	100.00
1 set Hobbs' runners .....	90.00
1 hose sled .....	20.00
1,600 feet of fabric hose in good condition .....	720.00
250 feet of fabric hose in damaged condition .....	50.00
Furniture, fixtures, beds, bedding, etc.....	300.00
Stable fixtures and blankets .....	50.00
Firemen's suits and badges .....	500.00
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Total amount .....	\$2,880.00

**Hose No. 2.**

LOCATED ON MAPLE STREET, CORNER OF EAST HIGH.

1 two-horse hose wagon, rubber-tired .....	\$750.00
2 bay horses .....	500.00
2 swinging harnesses .....	100.00
1 exercise wagon .....	325.00
1,650 feet of fabric hose in good condition .....	742.50
1,200 feet of fabric hose in damaged condition .....	240.00
Furniture, fixtures, beds and bedding .....	150.00
Firemen's suits and badges .....	100.00
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Total amount .....	\$2,907.50

**Hose No. 3.**

LOCATED ON SOUTH ELM STREET, BAKERSVILLE.

1 combination hose wagon, rubber-tired (with ladders)	\$1,000.00
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1 pair gray horses .....	100.00
1 pair swinging harnesses .....	100.00
1 pair exercise harnesses .....	50.00
1 exercise wagon .....	260.00
1,300 feet of fabric hose in good condition .....	585.00
650 feet of fabric hose in damaged condition .....	130.00
Furniture, fixtures, bedding, etc.....	85.00
Stable fixtures, blankets, etc.....	65.00
Firemen's suits and badges .....	80.00
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Total amount .....	\$2,455.00

### Combination Hose and Chemical No. 2.

LOCATED ON WESTON STREET, CORNER OF CONCORD.

1 combination chemical and hose wagon .....	\$1,700.00
2 bay horses .....	550.00
2 swinging harnesses .....	100.00
1 exercise wagon .....	250.00
1,900 feet of fabric hose in good condition .....	855.00
700 feet of fabric hose in damaged condition .....	140.00
Furniture, fixtures, bedding, etc.....	482.00
Stable fixtures and blankets .....	50.00
Firemen's suits and badges .....	80.00
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Total amount .....	\$4,207.00

### Hook and Ladder Company No. 1.

LOCATED ON VINE STREET.

1 aërial ladder truck, rubber-tired, pneumatic hoist....	\$6,700.00
3 horses .....	600.00
3 exercise harnesses .....	75.00
3 swinging harnesses .....	150.00
3 rubber blanket covers .....	51.00
50 feet fabric hose .....	22.50
Furniture and fixtures .....	200.00
Beds, bedding and furniture .....	75.00
Stable fixtures and blankets .....	60.00
Firemen's suits and badges .....	150.00
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Total amount .....	\$8,083.50



**Motor Hook and Ladder No. 8.**

TO BE LOCATED ON SOUTH MAIN STREET WHEN STATION IS COMPLETED.

Cost of truck .....	\$6,000.00
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**Chemical Engine No. 1.**

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine, rubber-tired...	\$2,500.00
1 pair bay horses .....	500.00
1 pair exercise harnesses .....	50.00
1 pair swinging harnesses .....	100.00
Furniture and fixtures .....	100.00
Stable fixtures and blankets .....	50.00
Firemen's suits and badges .....	35.00
<b>Total amount .....</b>	<b>\$3,335.00</b>

**Squad A, Auto-Combination.**

LOCATED ON VINE STREET.

Automobile combination wagon .....	\$5,500.00
600 feet fabric hose .....	270.00
Firemen's "fire" suits and badges .....	80.00
2 extra rubber tires .....	200.00
Beds, bedding and furniture .....	250.00
<b>Total amount .....</b>	<b>\$6,300.00</b>

**Supply Wagon.**

1 supply wagon, with coal boxes .....	\$150.00
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**Exercise Wagon.**

AT CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole, shafts, three-horse hitch, and coal boxes .....	\$150.00
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**Spare Hose Carriage and Hose.**

1 one-horse hose carriage (spare) .....	\$50.00
3,500 feet old hose for re-lining .....	525.00
Old hose for junk .....	200.00
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Total amount .....	\$775.00

**Engineers' Department.**

1 "Rambler" automobile .....	\$1,924.00
1 bay horse .....	100.00
1 chief's wagon .....	275.00
1 swinging harness .....	37.00
5 engineers' white rubber coats .....	37.50
5 engineers' lanterns .....	20.00
Blanket, robe, etc.....	25.00
Furniture and fixtures .....	150.00
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Total amount .....	\$2,568.50

**Riverside Hose Company No. 5.**

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hose carriage .....	\$150.00
400 feet of leather hose .....	100.00
800 feet of fabric hose .....	240.00
2 hose-pipes, spanners, etc.....	40.00
Furniture and fixtures .....	10.00
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Total amount .....	\$540.00

**Hallsville Hose Company No. 6.**

LOCATED AT CORNER OF MAMMOTH ROAD AND MASSABESIC STREET.

1 four-wheeled hose carriage .....	\$200.00
500 feet of fabric hose .....	150.00
Nozzle, wrenches, etc.....	15.00
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Total amount .....	\$365.00

**Goffe's Falls Hose Company.**

LOCATED ON BROWN AVENUE.

1 one-horse hose carriage .....	\$200.00
800 feet fabric hose .....	576.00
2 hose-pipes .....	10.00
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Total amount .....	\$786.00

**Extra Horses.**

1 bay .....	\$150.00
1 gray horse .....	50.00
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Total amount .....	\$200.00

**Fire-Alarm Telegraph.**

Cost of reconstruction, 1912-13, with apparatus continued in use from old system .....	\$77,860.73
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**Recapitulation.**

Engine Company No. 1 .....	\$7,130.00
Engine Company No. 2 .....	8,947.50
Engine and Ladder Company No. 3 .....	15,774.00
Engine Company No. 4 .....	6,760.00
Engine and Ladder Company No. 5 .....	9,822.00
Engine and Ladder Company No. 6 .....	9,236.00
Engine and Ladder Company No. 7 .....	11,144.00
Hose Company No. 1 .....	2,880.00
Hose Company No. 2 .....	2,907.50
Hose Company No. 3 .....	2,455.00
Combination Hose and Chemical Co. No. 2 .....	4,207.00
Hook and Ladder Company No. 1 .....	8,083.50
Hook and Ladder No. 8 (not in service) .....	6,000.00
Chemical Engine No. 1 .....	3,335.00
Automobile Combination, Squad A .....	6,300.00
Supply Wagon (Central Station) .....	150.00
Exercise Wagon (Central Station) .....	150.00
Spare Hose Carriage and Hose .....	775.00

Engineer's Department .....	2,568.50
Riverside Hose Company .....	540.00
Hallsville Hose Company .....	365.00
Goffe's Falls Hose Company .....	786.00
Extra Horses .....	200.00
Fire-Alarm Telegraph .....	79,860.73
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Total .....	\$190,376.73

OFFICERS AND MEMBERS

BOARD OF ENGINEERS.

Badge No.	NAME.	Rank.	Occupation.	Residence.
1	Thomas W. Lane.....	Chief.....	Permanent.....	1937 Elm.
3	Arthur Provost.....	Deputy Chief....	Merchant.....	526 Notre Dame av
4	Thomas F. Fitzsimmons	" ....	Painter .....	258 Notre Dame av
5	Edwin W. Merrill.....	" ....	Merchant.....	166 Blodget.
2	John F. Seaward.....	" ....	Contractor.....	27 Warren.

FIRE ALARM TELEGRAPH.

Badge No.	NAME.	Rank	Residence
186	Charles H. French.....	Superintendent.....	475 Hanover
63	John E. Rogers.....	Operator .....	202 Candia Road
201	George A. Cann.....	" .....	61 Prospect
200	William J. Murphy.....	" .....	27 walnut

## ENGINE COMPANY No. 1.

*House, 28 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
18	Asa W. Gage .....	Captain .....	Permanent .....	28 Vine.
15	George F. Millar.....	Lieutenant.....	Salesman.....	944 Hanover.
19	Natt A. Sargent.....	Clerk.....	Merchant.....	435 Amherst.
6	Charles F. Hall.....	Engineer .....	Permanent.....	146 Orange.
7	George W. Booth .....	Asst. engineer...	Second-hand.....	72 Water.
11	Frank E. Nute.....	Driver engine...	Permanent .....	425 Merrimack.
124	Archie Miller.....	Driver hose.....	" .....	242 E. High.
17	Melvin Walker.....	Hoseman .....	Carpenter.....	6 Canal.
13	George E. Bolton.....	" .....	Teamster .....	753 Union.
16	Harry E. Belknap.....	" .....	Carpenter.....	530 Wilson.
8	John J. Kearns .....	" .....	Plumber.....	27 Boyden.

## ENGINE COMPANY No. 2.

*House on North Main Street, 'Squog.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
76	Jeremiah Lane .....	Captain.....	Permanent .....	210 No. Main.
77	William J. Arnold.....	Lieutenant .....	Barber. ....	17 So. Main.
67	Archibald A. Gorham..	Clerk.....	Machinist .....	23 Bath.
120	Charles Edgar .....	Engineer.....	Permanent .....	106 Market.
119	Stephen Thomes.....	Asst. engineer...	Carpenter .....	535 Granite.
72	Thomas F. Collins.....	Driver of engine	Permanent.....	28 Second.
69	Clarence A. Whitcomb.	Driv. combin'tn	" .....	66 No. Main.
71	John W. Gott.....	Hoseman .....	Wool-sorter .....	95 Douglas.
75	Ernest R. Whitcomb....	" .....	Wool-sorter .....	28 Sullivan.
74	Oscar G. Lagerquist....	" .....	Clerk .....	37 Green.
68	Alvin Drescher .....	" .....	Boilermaker.....	166 Thornton.

ENGINE AND LADDER COMPANY No. 3.  
House on Lake Avenue, corner of Massabesic.

Badge No.	NAME.	Rank.	Occupation.	Residence.
86	Frank F. Porter.....	Captain.....	Permanent .....	330 Spruce.
78	Leslie W. Dolloff.....	Lieut. of engine..	Merchant.....	427 Central.
97	Edwin C. Paul . . . . .	“ truck...	Collector .....	450 Lake ave.
88	George Taylor.....	Clerk .....	Clerk. ....	456 Lake ave.
122	John P. Walker.....	Engineer .....	Permanent.....	570 Cedar.
80	John A. Haselton.....	Asst. engineer...	Piper.....	598 Cedar.
105	Herbert E. Duabar.....	Driver of engine.	Permanent....	286 Laurel.
81	John T. Duncan.....	Driver of hose....	“ .....	386 Spruce.
82	Lyman W. Piper.....	Chauffeur, truck	“ .....	398 Merrimack.
89	Parker R. Brown.....	Fireman... ..	Salesman .....	422 Merrimack.
121	Arthur S. Brown.....	“ .....	Merchant.....	291 Myrtle.
84	George L. Slack .....	“ .....	Salesman.....	141 Massabesic.
98	William B. Blake.....	“ .....	Health inspector .	265 Cypress.
79	Harry J. Smith .....	“ .....	Shoe-maker.....	382 Lake ave.
43	Frank C. Curtis ... ..	“ .....	Laundryman.....	461 Lake ave.
114	Charles H. Day .....	“ .....	Merchant .....	522 Central.
148	Archer L. Thomas.....	“ .....	Painter.....	285 Central.
87	William W. Knee... ..	“ .....	Electrician.....	455 Central.
85	Dennis M. Flemming...	“ .....	Wool sorter.....	169 Green.
150	Richard E. Marden.....	“ .....	Stone-mason .....	20 Garland ave.

## ENGINE COMPANY No. 4.

*House, No. 20 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
28	Frank A. Pherson .....	Captain .....	Permanent. ....	641 Union.
33	Thomas W. Lane, Jr ...	Lieutenant.....	Electrician .....	1937 Elm.
24	Adams L. Greer .....	Clerk .....	Salesman.....	76 Lowell.
21	Walter Morse .....	Engineer .....	Permanent .....	386 Orange.
27	Edward Sargent.....	Asst. Engineer..	Machinist.....	73 Amherst
31	Emil H. Smith .....	Driver of engine	Permanent.....	13 Ray.
37	Henry C. Parsons .....	Driver of hose...	" .....	88 Prospect.
20	Robert W. Turnbull ...	Hoseman .....	Machinist .....	20 Vine.
26	Harold A. Sayward.....	" .....	Clerk.....	599 Union.
25	Lewiell M. Chase .....	" .....	Electrician .....	330 Lowell.
32	Paul E. Haskell.....	" .....	Carpenter .....	170 Amherst.

## ENGINE AND LADDER COMPANY No. 5.

*House, No. 44 Webster Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
161	Irving S. Bryant. ....	Captain.....	Permanent.....	884 Union.
49	Charles W. Brown.....	Lieut. engine....	Clerk.....	95 Harrison.
46	Woodbury Davison.....	Lieut. truck....	Carpenter.....	908 Clay.
158	Andrew S. Fantom.....	Clerk.....	Cigar-maker.....	167 Brook.
102	Joseph H. Gould.....	Engineer.....	Permanent.....	762 Beech.
30	James C. Newton....	Asst. engineer...	Machinist.....	424 Amherst.
134	Alphonso E. Foster....	Driver engine...	Permanent.....	529 Heyey.
57	Ellsworth V. Rowe.....	Driver hose.....	".....	313 Walnut.
12	Clarence F. Kemp.....	Driver truck....	".....	149 Orange.
42	Arthur S. Hamilton.....	Fireman.....	Painter.....	92 Brook.
101	Charles W. Warner.....	".....	Electrician.....	75 Sagamore.
159	Charles E. Longa.....	".....	Electrician.....	10 N. Adams.
95	William W. Cupples....	".....	Clerk.....	927 Union.
47	Wilbur M. Gilman.....	".....	Piper.....	30 Brook.
160	Maurice Hoffman.....	".....	Tailor.....	321 Walnut.
162	George A. Whitten.....	".....	Tinsmith... ..	53 Pennacook.
41	James J. Cronin.....	".....	Stone-mason.....	1407 Elm.
195	Carl B. Thurber....	".....	Rubber Stamp Mfr.	831 Chestnut. .
123	George W. Upton....	".....	Electrician.....	297 Walnut.
108	Edmond Anger.....	".....	Boiler-maker.....	23 Hollis.



## ENGINE AND LADDER COMPANY No. 6.

*House on Amory St., corner Rimmon Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
141	Mederique R. Maynard.	Captain.....	Permanent .....	302 Cartier.
147	James A. Farley.....	Lieut. engine ...	Machinist .....	385 Dubuque.
146	Toussaint Tremblay ...	Lieut. truck ....	Carpenter.....	143 Wayne.
137	John W. Lyons.....	Clerk .....	Loom-fixer .....	438 Amory.
132	Toby Lemay .....	Engineer .....	Permanent.....	464 Cartier.
135	Patrick J. O'Connell....	Asst. Engineer ..	Painter .....	560 No. Main.
125	Celon D. Stevens.....	Driver of engine	Permanent.....	416 Bartlett.
140	John H. Cote.....	Driver hose....	" .....	298 Granite.
142	Frank St. John.....	Driver truck ...	" .....	47 Bremer.
128	John H. McCabe.....	Fireman.....	Plumber. ....	310 No. Main.
130	Calvin Brinn .....	" .....	Loom-fixer .....	356 Rimmon.
144	John Montplaisir.....	" .....	Clerk .....	462 Dubuque.
136	Roumelt Cote .....	" .....	Plumber .....	291 Dubuque.
129	Philip Cote .....	" .....	Baker.....	335 Dubuque.
133	Francois X. Gagne .....	" .....	Carpenter .....	291 Bartlett.
138	John A. Gemmel .....	" .....	Operative.....	27 Quincy.
145	Joseph St. Germain....	" .....	Truckman.....	377 Rimmon.
31	Arthur Pelletier.....	" .....	Carpenter .....	437 Rimmon.
139	Charles Caron .....	" .....	Clerk.....	402 Rimmon.
143	Odilon F. Dubois .....	" .....	Grocer .....	610 Rimmon.

## ENGINE AND LADDER COMPANY No. 7.

*House on Somerville Street, between Hall and Belmont*

Badge No.	NAME.	Rank.	Occupation.	Residence.
170	James J. Collins . . . . .	Captain . . . . .	Permanent . . . . .	767 Somerville.
171	John W. Chapman . . . . .	Lieut. engine . . . . .	Plumber . . . . .	884 Clay.
172	Henry W. Barnard . . . . .	Lieut. truck . . . . .	Carpenter. . . . .	213 Jewett.
173	Franklin P. Cleveland. . . . .	Clerk . . . . .	Woodworker . . . . .	726 Somerville.
174	Fred S. Morrill . . . . .	Engineer . . . . .	Permanent . . . . .	115 Cypress.
175	Louis Ross . . . . .	Asst. Engineer. . . . .	Plumber . . . . .	746 Hayward.
176	Arthur Hebert . . . . .	Driver engine . . . . .	Permanent . . . . .	49 Maple.
177	George N. Rogers . . . . .	Driver hose . . . . .	" . . . . .	173 Taylor.
178	Percy L. Nute. . . . .	Driver truck. . . . .	" . . . . .	495 Wilson.
179	Charles J. Beliveau . . . . .	Fireman. . . . .	Janitor. . . . .	931 Hayward.
180	Albert L. Worthen. . . . .	" . . . . .	Plumber. . . . .	1005 Cilley road.
181	James S. Long. . . . .	" . . . . .	Dresser . . . . .	65 Hall.
183	Harold E. Wheeler. . . . .	" . . . . .	Shoemaker . . . . .	821 Dix.
187	John W. Clark. . . . .	" . . . . .	Steamfitter . . . . .	1000 Cilley road
188	William L. Gray. . . . .	" . . . . .	Dresser. . . . .	75 Prout ave.
189	Henry L. O'Malley . . . . .	" . . . . .	Plumber. . . . .	153 Belmont.
192	John J. Landregan. . . . .	" . . . . .	Steamfitter. . . . .	100 Hall.
182	Charles E. Luscombe. . . . .	" . . . . .	Clerk. . . . .	223 Jewett.
191	Peter J. Reilly . . . . .	" . . . . .	Teamster. . . . .	200 Wilson.
190	Thomas Cote . . . . .	" . . . . .	Shoemaker . . . . .	662 Harvard.

## CHEMICAL ENGINE COMPANY No. 1.

*House, No. 12 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
115	Hervey E. Harris. . . . .	Captain. . . . .	Permanent . . . . .	100 Brook
116	Clarence D. Palmer. . . . .	Clerk. . . . .	Marble and Granite dealer . . . . .	537 Union.
185	Robert H. Duncan . . . . .	Driver. . . . .	Permanent. . . . .	152 Pearl.
103	Albert M. Tuson . . . . .	Pipeman. . . . .	" . . . . .	53 Blodget.
117	Thomas Welch . . . . .	" . . . . .	Millwright . . . . .	35 Blodget.

## HOSE COMPANY No. 1.

*House, No. 26 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
64	Melvin W. Worthen .....	Captain.....	Permanent.....	23 Vine.
36	Alfred Firth.....	Lieutenant.....	Machinist .....	4 Derry.
53	Leon H. French.....	Clerk .....	Electrician.....	503 Canal.
29	Charles H. Rogers.....	Driver.....	Permanent.....	26 Vine.
48	Albert A. Puffer .....	Hoseman.....	Teamster.....	499 Beech.
34	Harry Barrett.....	" .....	Machinist.....	26 Vine.
50	Charles H. Skinner.....	" .....	Car Inspector.....	84 Ashland.
52	George O. Harvey.....	" .....	Carpenter.....	463 Canal.

## HOSE COMPANY No. 2.

*House, No. 525 Maple Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
111	Roscoe Dyer. ....	Captain.....	Permanent.....	525 Maple.
58	Thomas Smith.....	Lieutenant .....	Carpenter.....	24 South.
54	Thomas P. Burnap .....	Clerk .....	" .....	56 Nashua.
57	Benjamin R. Richardson	Driver.....	Permanent.....	521 Maple.
56	Fred W. Corey.....	Hoseman.....	Needle-maker .....	497 Maple.
59	Frank G. Miller .....	" .....	Gas-fitter .....	246 E. High.
55	James B. Flanders.....	" .....	Carpenter .....	351 E. High.
68	Joseph Asselin.....	" .....	Needle-maker.....	28 South.

## ANNUAL OFFICIAL REPORT.

## HOSE COMPANY No. 3.

*House, South Elm Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
51	Clarence R. Merrill.....	Captain....	Permanent.....	414 Merrimack
156	Ernest E. Austin ...	Lieutenant.....	Electrician .....	43 Welch ave.
154	William P. Hall.....	Clerk .....	Sash-maker .....	39 Elm.
152	Frank W. Tebbetts .....	Driver .....	Permanent .....	236 Silver.
153	James H. McKenzie.....	Hoseman .....	Sash-maker .....	72 Elm.
151	Forrest M. Laraba.....	" .....	Laundryman.....	21 Elm.
155	William E. Geer.....	" .....	" .....	20 Cheney pl.
157	Edward N. Cousins .....	" .....	Janitor ....	21 Elm.

## COMBINATION COMPANY No. 2.

*House, corner Weston and Concord Streets, Wilson Hill.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
164	Alfred Gustafson .....	Captain.....	Permanent.....	Concord and <sup>Weston</sup>
166	Joseph W. Lindsay.....	Lieutenant.....	Tinsmith .....	498 E. High.
127	Michael J. Bradley .....	Clerk .....	Gasfitter.....	125 Ashland.
167	Henry C. Crosby.....	Driver .....	Permanent.....	465 E. High.
168	Angus McDonald.....	Hoseman ..	Blacksmith .....	385 Pearl.
40	William G. Anderson ..	" .....	Mill operative ...	465 E. High.
169	Gardner E. Marston ...	" .....	Plumber.....	3 Morrison.
165	Thomas A. Reed.....	" .....	Painter .....	699 Beacon.
44	Albert W. Tucker .....	Driv. sup'ly wag.	Teamster.....	18 Brown ave.

## FLYING SQUADRON, COMPANY A.

*House, No. 14 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
14	Frank H. Harvey.....	Captain.....	Permanent.....	359 Concord.
198	John J. Healy.....	Lieutenant.....	".....	336 Lake ave.
184	Arthur J. Provost.....	Clerk.....	".....	595 Pine.
99	Will G. Fraser.....	Hoseman.....	".....	1609 Elm.
197	Martin F. Kenney.....	".....	".....	632 N. Main.
90	Harry G. Hall.....	".....	".....	241 Lowell.
96	Fred A. Burnham.....	".....	".....	511 Lincoln.
9	Ephraem Gendron.....	".....	".....	574 Silver

## HOOK AND LADDER COMPANY No. 1.

*House, No. 18 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
110	Albert W. Smith.....	Captain.....	Permanent.....	42 Elm.
92	Oscar P. Stone.....	Lieutenant.....	Clerk.....	312 Manchester.
112	Frank M. Frisselle.....	Clerk.....	Editor.....	17 Hazel.
118	Lorenzo D. H. Ford.....	Driver.....	Permanent.....	461 Hanover.
107	Charles H. Burhart.....	Tillerman.....	".....	18 Vine.
100	William P. Jones.....	Ladderman.....	Steam-fitter.....	407 Lake av.
113	Louis Swanson.....	".....	Carpenter.....	75 Water.
106	Ernest E. Johnson.....	".....	Gas employee.....	10 Russell.
109	Frederick Marsh.....	".....	Carpenter.....	78 Water.
91	Alfred C. Lamper.....	".....	Gas employee.....	66 Nashua.
104	Algernon B. Skinner....	".....	Clerk.....	337 Manchester.
94	Thomas M. Hickey.....	".....	Operative.....	514 Maple.

## PERMANENT RELIEF MEN.

Badge No.	NAME.	Companies.	Residence.
126	Edwin M. Dorney.....	Engine 1, Hose 1 and Truck 1 .....	254 Walnut.
194	Clarence J. Dolloff.....	Hose 3, Chemical 1 and Engine 4....	164 Calef road.
193	Clarence Hackett.....	Eng. and Lad. 3. Eng. and Lad. 7....	345 Belmont.
93	Joseph Stewart .....	Eng. and Lad. 5, Hose 2, Comb. 2 ...	755 Beech.
196	William L. Comire. ...	Engine 2 and Engine and Ladder 6.	22 Lingard.
199	Charles R. Hammond ..	Chauffeur of Chief's Auto .....	35 North Adams.
35	Louis Loiselle .....	Janitor, Central Station.....	45 Myrtle.

**REPORT**  
**OF THE**  
**TRUSTEES OF THE CITY LIBRARY.**

# MANCHESTER CITY LIBRARY, 1913.

## Trustees.

Charles C. Hayes, *Mayor, ex officio.*  
James M. Yuill, *President of the Common Council, ex officio.*

Herman F. Straw.....	Term expires 1914
Edwin F. Jones.....	Term expires 1915
Frank P. Carpenter.....	Term expires 1916
William P. Farmer.....	Term expires 1917
Henry W. Boutwell.....	Term expires 1918
Roger G. Sullivan.....	Term expires 1919
Walter M. Parker.....	Term expires 1920

## Officers.

PRESIDENT, *ex officio.*

Charles C. Hayes.

CLERK AND TREASURER.

Edwin F. Jones.

## Librarian.

F. Mabel Winchell.

## ASSISTANTS.

Albro P. Reed. <sup>1</sup>	Ruth C. Dudley.
Ruth H. Bartlett.	Ralph M. Page. <sup>4</sup>
Caroline B. Clement.	Gladys Lane.
Una Vincent. <sup>2</sup>	Everett Beane. <sup>5</sup>
Margaret I. Grant.	Carlton, F. Hamer, substitute. <sup>6</sup>
Clara G. Wilson.	Arthur B. Blaine, substitute. <sup>7</sup>
Maria F. Kidder.	M. Nellie Brooks. <sup>8</sup>
Mrs. Rachel Flint Wheat. <sup>3</sup>	Iva M. Young. <sup>9</sup>
Max McConachie.	Mildred Gonyeau, substitute. <sup>10</sup>

## JANITOR.

Gustav Hecker.

## Library Hours.

9 A. M. to 9 P. M. (holidays excepted).

Sundays (for reading and reference), 11 A. M. to 5 P. M.

<sup>1</sup>Resigned September 9.

<sup>2</sup>Resigned November 15.

<sup>3</sup>Resigned September 20.

<sup>4</sup>Sundays only.

<sup>5</sup>Resigned July 5.

<sup>6</sup>Sundays only.

Appointed as regular September 9.

<sup>7</sup>Sundays only.

Appointed as substitute September 9.

<sup>8</sup>From September 22.

<sup>9</sup>From October 9.

<sup>10</sup>From November 3.



## **REPORT OF THE TRUSTEES OF THE CITY LIBRARY.**

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*To the Board of Mayor and Aldermen of the City of Manchester:*

GENTLEMEN—In behalf of the Trustees of the City Library the report made to them by the librarian is herewith submitted as and for the report of the trustees for the doings of the year 1913. The details of the work of the library are therein set out and no extended additional report seems to be needed.

With the removal of the books to the new building, the Manchester Library will have the best possible home, and it is confidently anticipated that the city councils will make proper response to the increased financial demands which will be caused by the acceptance of the donor's generosity.

Respectfully submitted,  
EDWIN F. JONES,  
*Clerk.*

## LIBRARIAN'S REPORT.

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*To the Trustees of the City Library, Manchester, N. H.:*

GENTLEMEN—The twelfth annual report of the present librarian and the sixtieth of the City Library is herewith submitted.

### Carpenter Memorial Building.

During the past year all eyes have been turned towards the new building which is in process of erection on Pine street, facing Concord Common.

Work was resumed on April 10, and on June 11 the corner-stone was laid with the following exercises:

- |                                |                                |
|--------------------------------|--------------------------------|
| 1. Invocation                  | Rev. Burton W. Lockhart, D. D. |
| 2. Address                     | Mayor Charles C. Hayes         |
| 3. Song—"Star Spangled Banner" |                                |
|                                | High School Graduating Class   |
| 4. Address                     | Hon. Henry E. Burnham          |
| 5. Laying of the cornerstone   | Frank P. Carpenter             |
| 6. Song—"America"              | High School Graduating Class   |
|                                | All join.                      |
| 7. Benediction                 | Rev. Thomas Chalmers, D. D.    |

The building has progressed with remarkable smoothness and celerity, and at the end of the year stands enclosed, with roof completed and plasterers at work on the interior.

### Growth and Development.

While all has been going so busily at the new edifice the old building has not been an idle place. In reviewing the work of 1913 it is gratifying to note the continued increase in the use of the library in all the different lines of its activities, besides the development of some new lines.

Chief among the latter is the addition of a high school librarian. This very desirable adjunct of the work was brought about by co-operation with the School Board, which pays nearly half the salary.

Heretofore the High School library, consisting of about High School 1,000 volumes and 600 stereographs, had been in charge library. sometimes of one teacher, sometimes of another, each of whom had sufficient duties without this one, and none of whom had any training for this particular line of work.

The result of this sort of care was not at all satisfactory and the library was little used.

Since Miss Young took charge of the work on October 14, the circulation and reference use have steadily increased, as is shown by the following records for the period from October 14 to December 19, when school closed for the Christmas vacation.

	Circulation.	Reference users.
October .....	135	478
November .....	154	569
December .....	247	898
	<hr/>	<hr/>
Total .....	536	1,945

The work is carried on in close coöperation with the City Library, to which pupils are constantly referred for more detailed information upon assigned subjects. Books needed are borrowed from the central library as occasion demands and kept on the school shelves as long as is necessary. Fifty books were borrowed in this way during the last two months.

The organization of the library is being carried on as rapidly as time will permit. The books have been arranged by classes and 570 have already been cataloged. Instruction in the use of the card catalog and the meaning of the classification is to be given the students, that they may use both the High School and the City Library more intelligently and easily.

About 300 volumes were recently added to the High School collection through the efforts of the pupils in a book contest conducted by the "Leader."

The School Board has made provision for a large number of new books which will provide additional material for each department, and subscriptions have been placed for eight periodicals for the coming year. These accessions will add materially to the size and value of the collection.

Coöperation between public libraries and grammar schools has long been a familiar feature of library work, but the development of high school libraries is of more recent origin. Manchester has early fallen into line in this movement, its high school being the third in New England to have a trained librarian in charge of its library. That results are justifying this step is shown not only by the records but by the statement of Mr. Libby, the High School principal, who has expressed himself as convinced that the efficiency of the school has been increased twenty per cent, if not more, since Miss Young's advent.

Another expansion of the work was the opening of a new delivery station. On May 28, just a year from the date of starting the sta-

tion at East Manchester, one was opened at West Manchester in the drug store of Charles R. Leckie. This station has been open each Wednesday evening from 6.30 to 8.30, and altho the response at first was not so ready as at East Manchester, it is now well patronized, nearly 100 volumes having been issued in one evening. Miss Clement has had charge of this work.

At East Manchester the use of the station has continued to grow until the number of patrons who call each Tuesday evening make the narrow quarters at our disposal seem very much crowded. For the proper accommodation of these borrowers it would seem necessary, at no distant date, to open two evenings in the week. This station during the past year has been in charge of Max McConachie.

South Manchester, Goffe's Falls, Amoskeag, and McGregorville ought also to have books made more accessible by delivery or deposit stations.

One other innovation during the year was that of permitting borrowers to take two works of fiction at a time instead of restricting them to one as had been the custom from time immemorial. This change went into effect July 1 and one would naturally expect a decided increase in the amount of fiction issued. It is true there was an increase but not sufficient in proportion to the non-fiction used to raise the percentage. On the contrary, the percentage of fiction dropped. Not only was this true of the six months after the new rule became operative, as compared with the corresponding months of last year, but for the year as a whole the percentage of fiction was lower than for any previous year since the record has been kept.

In this connection it might be interesting to note that in July, 1898, the percentage of fiction ran as high as 89 while in February of this year it was 64.

The total circulation for the year again shows an increase, this time of more than 5,000 over last year, and for the first time brings the figure above the 100,000 mark.

The registration likewise has been augmented by a larger number of borrowers than usual. The beginning of 1913 marked the expiration of the five-year period for which the new system of registration provided. On this account a much larger number lapsed this year than had during the five previous years all together. In spite of this the number of active borrowers is larger by nearly a thousand than it was a year ago.

The work with the schools has continued to grow under the charge of Miss Bartlett. The number of volumes sent this year shows an increase of 52 per cent over 1912 and 158 per cent over 1911. The circulation from the schools has also increased.

**Work with schools.** The work on the card shelf list, which was begun last year, has been continued as time from other duties would permit. Seven thousand nine hundred and seventy-one cards have been written this year, making a total of about 22,000 completed. A number of classes yet remain to be transferred to cards.

**Shelf list.** A large number of books, nearly 11,000, have been repaired at the library this year, and 536 have been discarded. The number of volumes rebound at the bindery is not less than before but it would have been very much larger had it not been for the addition of a Gaylord kit plus the skill of Miss Wilson who has had charge of this work. Of course the larger the circulation the greater the wear and tear of the books and the more volumes there are to be repaired and rebound. As the circulation continues to increase from year to year it would seem as though the day were not far distant when it would pay to have a binder of our own.

#### Inventory.

The inventory for the year showed two hundred and two books missing, a little more than half of which are fiction. One hundred and twenty-three of these are juvenile and seventy-nine are adult works.

Nineteen volumes unaccounted for in previous years have come to light during 1913.

#### Book Funds.

Books have been purchased this year for the first time with the incomes from the Prout and the Emily A. Smith funds. The former has been set apart for the purchase of reference and historical works, the latter for juvenile literature. Both funds will be a great help in building up these different departments of the library and will enable us in the course of time to acquire collections of which the library may well be proud. The Dean fund has already made it possible to accumulate a very good collection of art books and a fair collection of scientific and technical works. If some good friend of the library would now give us a fund for the purchase of music it would fill a very definite need. At present the library has no collection of music worthy of the name. In this we are much behind other libraries of our size and character.

**New funds.** We should have the scores of all the great composers just as we have the works of the great writers of literature. We should also have the best of the popular music of the day, just as we have the best of the popular fiction of

the day. Some libraries go even further than this and provide pianola rolls so that their patrons may have the opportunity to become familiar with the best of music as well as the best of literature.

### Staff.

Again we are obliged to report several changes in the staff. Hymen claimed two of our assistants, Miss Flint and Miss Vincent, while Everett Beane left us to enter the business field with its promise of better salaries. Albro P. Reed, who since 1906 had been one of the Sunday attendants, resigned on account of removal from town.

Mr. Hamer was appointed to the Sunday position made vacant by Mr. Reed's resignation, and Miss M. Nellie Brooks of West Springfield, Mass., was appointed cataloger in Miss Flint's place. Miss Brooks received her training at the Westfield Atheneum, at Westfield, Mass., and also had some experience in another library before coming to us.

Miss Iva M. Young, who was appointed in October to have charge of the High School library, received her training at the City Library of Springfield, Mass., and has since had such experience in public and college libraries as has well fitted her for her particular line of work.

Miss Mildred Gonyeau, a high school student, came to us in July as a pupil assistant and on November 1 was appointed a substitute.

During the early summer, requests were received from two students of Simmons College, who are taking the library course there, to come into our library for practice work. One of these, Miss Anita Allen of this city, was admitted and gave her services for three weeks in return for the opportunity of learning our methods and gaining the experience of practical work.

Two members of the staff, Miss Bartlett and Miss Grant, whose homes are in Goffstown, have been giving their services most generously to classify and catalog the library of that town, using their half day off for this purpose.

It has been found very difficult to secure assistants with any training or experience because of the low salaries which we pay. At present we are paying those who have been with us three or four years about what other libraries are paying as a minimum wage. If we are to have efficient workers and keep them, higher salaries must be paid.

It is unreasonable to expect a first class library to be carried on

by untrained, ill-paid assistants. It takes an untrained person several months to learn enough of the work to be of any value and a number of years to become proficient even in one department. Meanwhile it costs the librarian or assistants much time to do the teaching, — time which they can ill afford to give because it is greatly needed for their regular work.

**Untrained workers.** The staff deserves much praise for the amount and character of the work done during the past year, but many lines of work are as yet entirely undeveloped. Not until we have a trained staff of sufficient numbers to handle the various lines of library work carried on in other cities will the people of Manchester get the full value of the excellent collection of books which is theirs.

**Trained workers needed.** The librarian and several of the assistants have attended a number of meetings of the Massachusetts Library Club during the year, and two assistants accompanied the librarian to the joint meeting of the Vermont and New Hampshire associations which was held at Woodstock, Vermont, in October. No one from the library was able to attend the national conference this year, but all had the opportunity of attending the annual meeting of the New Hampshire association, which was held in our own city. It had been sixteen years since the state association had held a meeting in Manchester and the preparation for the conference as well as the actual attendance on its sessions proved a benefit to the assistants and the library.

**Attendance at library meetings.** The morning session included several addresses, while the afternoon session was devoted to business and informal discussions on practical topics. Between the two sessions the site of the new library was visited and a trolley ride by special car was taken to Stark park and the site of the old Stark homestead.

**Manchester meeting of state association.**

#### Acknowledgments.

I wish to express my gratitude to the trustees for the confidence they have given me, and to the members of the staff for their loyalty and enthusiasm.

The local newspapers have been as generous as in previous years in giving space to our book lists and news notes, and a goodly number of people have remembered the library with donations of books, periodicals, pictures, pamphlets, etc. To all these, we extend our appreciative thanks.

Respectfully submitted,

F. MABEL WINCHELL,

*Librarian.*

## APPENDIX I.

## Accessions.

Increase by purchase .....	2,179
Increase by gift .....	405
Increase by binding periodicals .....	350
Increase by public documents not accessioned .....	192
Total increase for the year .....	3,126
Number of accessions as last reported .....	68,837
Whole number of accessions .....	71,771
Number of volumes purchased from the Dean fund .....	245
Number of volumes purchased from the Eaton fund .....	43
Number of volumes purchased from the Elliot fund .....	19
Number of volumes purchased from the Prout fund .....	86
Number of volumes purchased from the Smith fund .....	268
Worn-out volumes withdrawn from circulation .....	536
Number of volumes replaced .....	463
Number of volumes lost or injured and paid for .....	33
Number of volumes lost and not paid for .....	41
Number of volumes burned on account of contagious diseases .....	15
Number of magazines subscribed for .....	170
Number of magazines given .....	57
Number of newspapers subscribed for .....	8
Number of newspapers given .....	11
Total number of periodicals received .....	246

## APPENDIX II.

## Circulation and Registration.

## CIRCULATION.

Number of days open for circulation of books.....	304
Average daily use (home) .....	332
Largest number any one day (January 2) .....	639
Smallest number any one day (June 27) .....	147
Largest number any one month (December) .....	9,618
Smallest number any one month (June) .....	6,517
Home circulation .....	100,877
Number of volumes issued to schools .....	4,056
School circulation (estimated from partial records) .....	13,637
Home circulation, including school circulation .....	114,514
Number of volumes delivered in reading room .....	15,419
Average daily use .....	51
Total circulation .....	129,933



# REPORT OF THE TRUSTEES OF THE CITY LIBRARY, 151

## RECORD, BY CLASSES, OF VOLUMES ISSUED.

	No. vols.	Per cent.
General works .....	6,619	6.5
Philosophy and religion .....	1,483	1.5
Biography .....	2,016	2.
History .....	3,027	3.
Geography and travels .....	2,603	2.6
Social sciences .....	1,388	1.4
Science and useful arts .....	4,750	4.7
Fine arts .....	2,720	2.7
Literature .....	7,058	7.
Fiction .....	68,599	68.
Pictures .....	614	.6
Total .....		
	100,877	

## REGISTRATION.

Active borrowers, December 31, 1912 .....		8,335
New borrowers registered in 1913 .....	1,251	
Registrations renewed in 1913 .....	471	
Total number registered in 1913 .....		1,722
		10,057
Registrations lapsed during 1913 .....		779
Active borrowers, December 31, 1913 .....		9,278

## EAST MANCHESTER DELIVERY STATION.

Number of volumes issued .....		4,973
Number of evenings open .....		52
Average per evening .....		96
Largest number issued (September 23 and September 30)..		129
Smallest number issued (May 20) .....		69
Total number of registrations .....		47

## WEST MANCHESTER DELIVERY STATION. /

(May 28-December 31.)

Number of volumes issued .....		1,892
Number of evenings open .....		32
Average per evening .....		59
Largest number issued (December 17) .....		98
Smallest number issued (May 28) .....		8
Total number of registrations .....		68

## APPENDIX III.

## Miscellaneous Statistics.

Number of volumes classified .....	2,281
Number of volumes cataloged .....	1,883
Number of volumes bound and repaired at bindery .....	882
Number of volumes repaired at library .....	10,798
Number of volumes covered at library .....	1,106
Number of discarded volumes sent to the County Jail....	157
Number of discarded volumes sent to the County Farm....	187
Mail notices for overdue books .....	2,125
Reserve notices paid for .....	2,042

## SUNDAY STATISTICS.

	Men.	Women.	Children.	Total.
Attendance .....	3,666	1,573	6,299	11,538
Average per Sunday .....	71	30	121	222

## CIRCULATION.

General works .....	4,204
Philosophy and religion .....	401
Biography .....	669
History .....	1,160
Geography and travels .....	826
Social sciences .....	472
Science and useful arts .....	1,406
Fine arts .....	1,469
Literature .....	3,904
Fiction .....	2,109
<hr/> Total .....	<hr/> 16,620

## APPENDIX IV.

Receipts from Fines, etc., from December 1, 1912, to November 30, 1913.

Received from fines .....	\$420.98
books lost or injured and paid for .....	25.15
reserve notices .....	19.44
miscellaneous sales .....	2.30
income on bank deposit .....	7.25
	<hr/>
	\$475.12
Paid for expressage, books and sundries.....	178.46
	<hr/>
Balance on hand .....	\$296.66

APPENDIX V.

Donations to Library, 1913.

The library has received as gifts 657 volumes, 2,467 pamphlets, 1,300 magazines, and many newspapers. Of these, 249 volumes and 2,042 pamphlets were from the government.

	Vols.	Pams.	Mags.
Abigail Webster chapter, D. A. R....1 program			
Adams, Edward D.....		1	
Adams, I. W.....	1		
Advance Club .....1 program			
Alexander, Stella H.....	1	2	
Arnott, James L.....	1	1	
Bartlett, Ruth H.....		2	19
Bourne, Hon. Jonathan, Jr.....		1	
Brown, Mary E.....The Independent			
Burnham, Henry E.....	135		
Carpenter, Mrs. Josiah.....	1		
Carvelle, Dr. H. D. W.....	30		78
Challis, Frank H.....12 post cards		1	
Chalmers, Rev. Thomas.....	1		345
Chaloner, J. A.....	2		
Chase, Wilfrid E.....	1		
Clark, John H.....			11
Clement, Caroline B.....		4	
Clough, Albert L.....	1		
Coolidge, Asenath C.....	2		
Current Events Club, Bedford, N. H., 1 program			
Currier, Mrs. Moody.....	1		
Davis, May W.....	1		
Dodge, James E.....	10		
Faber Reading Circle.....1 program			
Fellows, Mrs. E. B.....			70
Fisher, Adelina .....	2		
Fisk, Eugene Lyman.....		1	
Fletcher, Fanny B.....1 map			
Floyd, Marion .....			82
French, Mrs. Emma F., Life and light for woman Missionary herald			
Gillis, Mrs. John F.....		7	
Goffstown Unity Club.....1 program			
Granite Club .....1 program			
Grant, Margaret I.....			29

	Vols.	Pams.	Mags.
Greeno, Follett L.....	1		
Hamlin, G. V.....		1	
Historic Art Club.....1 program			
Holmes, Mrs. H. J.....			45
Humphrey, H. B. & Co.....	1		
Huse, William H.....	106	3	
Interrogation Club.....1 program			
Irwin, Fred T.....54 photographs			
Jenkins, Adna A., Subscription to Esperanto monthly	4		
Jones, Edwin F.....		1	
Jones, Eva G.....		1	
King, A. N..Subscription to Theosophical path			
Lamb, Fred W.....		2	
Lane, Gladys .....	1		1
Leavitt, Dr. Sheldon.....		1	
Livermore, C. W.....	1		
Lull, Robert W., 1 Manchester newspaper of 1857			
McAllister, George I.....	8		
Mack, Isabella G.....			42
Manchester Federation of Women's Clubs, 1 program			
Manchester Historic Association.....	1		
Manchester Institute of Arts and Sciences....			396
Manchester Shakespeare Club.....1 program			
Manchester Teachers' Guild.....1 program			
Manning, Robert S.....	1		
Messinger, H. E.....	1		
Molly Stark Chapter, D. A. R.....	2		
Natural Science Club.....1 program			
Nelson, Chesman & Co.....	1		
New Century Club.....1 program			
New Hampshire Historical Society.....	25		
New Hampshire Medical Society.....	1		
Nineteenth Century Club.....1 program			
Noyes, Laura G.....	2		
Phelps, Edw. B.....	1		
Pionera Grupo, Subscription to Amerika Esperantisto			
Plumer, Mrs. W. H., Subscription to Good Housekeeping			
Priest, Mrs. Electa M.....	1		
Ranlett, Mrs. Susan E.....			15
Raymond, George Lansing.....	2		
Reed, Eugene E.....	1		

REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 455

	Vols.	Pams.	Mags.
Review Club.....1 program			
Richardson, Charles L.....46 pictures	1		
Rowell, C. Marion.....			1
Sacred Heart Hospital.....		4	
Sisters of Mercy.....	2		
Taggart, Alice C.....	3		46
Taylor, Mrs. Margaret.....	1		
Thompson, Slason .....	1		
Tolman, Mary M.....1 calendar 10 pictures	3	4	25
Tolman, Mary M., and Sunday School class, 10 scrap books			
Van Hise, Charles R.....		1	
Varick, John B., Co.....		1	
Varick, Mrs. Thomas R.....			75
Wallace, William E.....		3	
Walter, Frank K.....		7	
Watts, Mary A.....	1		1
Williams, J. Arthur.....43 programs		11	
Wilson, Clara G.....		3	
Wilson, H. P.....	1		
Winchell, F. Mabel.....7 pictures		1	
Winchell, N. P.....	1		
Woman's Alliance, Unitarian Church, City, Subscription to Christian Register			
Wright, Benjamin C.....	1		
XIV Club .....			1 program

Grateful acknowledgment is hereby made to the many other donors—libraries, colleges, schools, associations, institutions, national, state, and city governments, etc.— from whom reports and various publications have been received.

APPENDIX VI.

Periodicals Received, 1913.

- A. L. A. booklist.
- Academy of Political Science. Proceedings.
- Alpine journal.
- America.
- American boy.
- American city.
- American historical review.

American homes and gardens.  
 American journal of science.  
 American journal of sociology.  
 American Library Association. Bulletin.  
 American magazine.  
 American naturalist.  
 Amerika Esperantisto.—Gift.  
 Among the deep sea fishers.  
 Annals of American Academy of Political and Social Science.  
 Annals of Iowa.—Gift.  
 Appeal to reason.—Gift.  
 Architecture and building.  
 Argosy.  
 Arts and decoration.  
 Athenæum.  
 Atlantic monthly.  
 Berea quarterly.—Gift.  
 Biblical world.  
 Bird lore.  
 Blackwood's Edinburgh magazine.  
 Book review digest.  
 Bookman.  
 Bookseller.  
 Boston Cooking School magazine.  
 Boston Society of Natural History. Proceedings.  
 Boys' life.  
 Brooklyn Institute of Arts and Sciences. Museum news.—Gift.  
 Brown alumni monthly.—Gift.  
 Bulletin of bibliography.  
 Bulletin of New Hampshire public libraries.—Gift.  
 Bulletin of the Rhode Island School of Design.—Gift.  
 Business.  
 Camera craft.  
 Canadian magazine.  
 Cassier's magazine.  
 Century.—2 copies.  
 Chambers's journal.  
 Chautauqua quarterly.—Gift.  
 Chautauquan.  
 Chicago banker.—Gift.  
 Child labor bulletin.  
 Christian burden bearer.—2 copies.—Gift.  
 Christian register.—Gift.  
 Christian science journal.—Gift.  
 Christian science sentinel.—Gift.  
 Collier's weekly.  
 Concrete-cement age.—Gift.

Connoisseur.  
 Contemporary review.  
 Cornhill magazine.  
 Cosmopolitan.—2 copies.  
 Cotton.  
 Country life in America.  
 Craftsman.  
 Cumulative book index.  
 Current opinion.  
 Dartmouth alumni magazine.—Gift.  
 Delineator.  
 Dial.  
 Eastern and western review.—Gift.  
 Edinburgh review.  
 Education.  
 Educational review.  
 Electrical engineering.—Gift.  
 Electrical world.  
 Electrician and mechanic.  
 Elementary school teacher.  
 Engineering magazine.  
 Engineering news.  
 English journal.  
 Envelope series.—Gift.  
 Equity.—Gift.  
 Esperanto monthly.—Gift.  
 Etude.—2 copies.  
 Everybody's magazine.—2 copies.  
 Everyland.  
 Fibre and fabric.  
 Flying and Aero Club of America. Bulletin.—Gift.  
 Folk-lore.  
 Fortnightly review.  
 Forum.  
 General electric review.  
 Good housekeeping.—Gift.  
 Gospel trumpet.—Gift.  
 Granite monthly.  
 Gregg writer.—Gift.  
 Grinnell review.—Gift.  
 Harper's bazar.  
 Harper's monthly.—3 copies.  
 Harper's weekly.  
 Hearst's magazine.  
 Hibbert journal.  
 Holy Cross purple.—Gift.

Home needlework magazine.  
 Home progress.  
 Horseless age.  
 House beautiful.  
 Human factor.—Gift.  
 Independent.—Gift.  
 Index medicus.  
 Index to dates of current events.  
 Indian's friend.—Gift.  
 International studio.  
 Journal of American folk-lore.  
 Journal of American history.  
 Journal of political economy.  
 Journal of the Franklin Institute.  
 Ladies' home journal.—2 copies.  
 Ladies' review.—Gift.  
 Ladies' world and housekeeper.—Gift.  
 Lancet.  
 Library journal.  
 Life.  
 Life and light for woman.—Gift.  
 Lippincott's magazine.  
 Literary digest.  
 Little folks.  
 Living age.  
 London quarterly review.  
 McClure's magazine.—2 copies.  
 Magnificat.—2 copies.—Gift.  
 Manual training magazine.  
 Metropolitan.  
 Mind.  
 Missionary herald.—Gift.  
 Missionary review of the world.  
 Modern electrics.  
 Modern Priscilla.  
 Monthly bulletin of the American Iron and Steel Institute.—Gift.  
 Motor world.  
 Mount St. Mary's record.—2 copies.—Gift.  
 Munsey magazine.—2 copies.  
 Museum of Fine Arts. Bulletin.—Gift.  
 Musician.—2 copies.  
 Nation.  
 N. E. A. bulletin.  
 National Fire Protection Association. Quarterly.  
 National geographic magazine.  
 National magazine.



- National municipal review.  
 Nature.  
 New England historical and genealogical register.  
 New England magazine.  
 New England shoe and leather industry.—Gift.  
 New York School of Philanthropy. Bulletin.—Gift.  
 Nineteenth century and after.  
 North American review.  
 Open court.—Gift.  
 Oracle.—Gift.  
 Out west.  
 Outdoor world and recreation.  
 Outing.  
 Outlook.  
 Overland monthly.  
 Pan American Union. Bulletin.—Gift.  
 Pearson's magazine.  
 Photo-era.  
 Pitman's journal.—2 copies.—Gift.  
 Poet lore.  
 Political science quarterly.  
 Popular electricity.  
 Popular mechanics.  
 Popular science monthly.  
 Posselt's textile journal.  
 Power.  
 Power boating.  
 Printing art.  
 Protectionist.—Gift.  
 Public.  
 Public libraries.  
 Publishers' weekly.  
 Puck.  
 Punch.  
 Quarterly bulletin of the State Board of Health of New Hampshire.  
 —Gift.  
 Quarterly review.  
 Quill.—Gift.  
 Railway age gazette.  
 Railway age gazette, mechanical edition.  
 Readers' guide to periodical literature.  
 Records of the past.  
 Review of reviews. American edition.—2 copies.  
 Revue Canadienne.  
 Revue des deux mondes.  
 St. Anselm's college monthly.—Gift.

St. Nicholas.—2 copies.  
 Saturday evening post.  
 Saturday review.  
 School.—Gift.  
 School-arts magazine.  
 School review.  
 Science.  
 Scientific American.  
 Scientific American supplement.  
 Scribner's magazine.—2 copies.  
 See America first.  
 Short ballot bulletin.—Gift.  
 Speaker.  
 Square deal.—Gift.  
 Strand magazine.  
 Suburban life.  
 Sunday school times.  
 Sunset.  
 Survey.  
 Technical world magazine.  
 Textile colorist.  
 Textile world record.  
 Theosophical path.—Gift.  
 Travel.  
 U. S. Patent Office. Official gazette.—Gift.  
 U. S. public documents. Catalogue.—Gift.  
 Universalist leader.—Gift.  
 Vocational education.  
 Western New England.  
 Westminster review.  
 Whittlings.—Gift  
 Woman's home companion.—2 copies; 1 copy a gift.  
 Word.—Gift.  
 Work with boys.  
 World peace foundation. Pamphlet series.—Gift.  
 World's work.—2 copies.  
 Wort.—Gift.  
 Yale review.  
 Youth's companion.—2 copies.

#### Newsletters.

Amoskeag bulletin.—2 copies.—Gift.  
 Anzeiger und Post.—Gift.  
 Arbetaren.—Gift.  
 L'Avenir national.—Gift.  
 Boston morning herald.

Boston Sunday herald.  
Boston evening transcript.  
Christian science monitor.—Gift.  
Concord evening monitor.  
Current events.  
Emerald.—Gift.  
Manchester leader.—Gift.  
Manchester union.—Gift.  
Mirror and American.  
Mirror and farmer.—Gift.  
New Hampshire farmer.—Gift.  
New York morning sun.  
New York times. Book review.  
Plymouth record.—Gift.

## TREASURER'S REPORT.

Account of Edwin F. Jones, Treasurer of the Trustees of the City  
Library.

1913.	DR.
Jan. 1. To unexpended balance of appropriations for the purchase of books.....	\$871.39
May 5. received from F. Mabel Winchell, librarian, account of fines, catalogs, books lost and injured, requests and miscellaneous to November 30, 1912.....	208.37
July 1. received from city treasurer, appropriation for the purchase of books.....	2,500.00
Jan. 1. Dean Fund .....	\$13,795.31
Dec. 31. Income Dean Fund .....	561.79
	14,357.10
Jan. 1. Eliza A. Eaton Fund .....	\$4,313.11
Dec. 31. Income Eliza A. Eaton Fund.....	144.86
	4,457.97
Jan. 1. Mary E. Elliot Fund.....	\$4,294.19
Dec. 31. Income Mary E. Elliot Fund.....	152.50
	4,446.69
Jan. 1. Emily A. Smith Fund .....	\$5,409.54
Dec. 31. Income Emily A. Smith Fund.....	216.36
	5,625.90
Jan. 1. Michael Prout Fund .....	\$8,115.05
Dec. 31. Income Michael Prout Fund.....	324.56
	8,439.61
	\$40,907.03

1913.

CR.

By paid for books and papers to:

Jan. 17. T. P. W. Rogers (Dean Fund), books.....	\$17.75
Feb. 8. Aldine Book Co., books.....	2.66
City News Co., papers.....	12.12
John B. Clarke Co., papers.....	5.00
Forest & Desautels, books.....	1.50
Freud & Co., books.....	5.15
H. Goldberger, periodicals.....	4.20
W. P. Goodman, books.....	35.75

REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 463

Feb.	8.	W. P. Goodman (Eaton Fund), books.....	\$5.40
		W. P. Goodman (Prout Fund), books.....	2.75
		W. P. Goodman (Smith Fund), books... ..	109.82
		A. K. Reading, mgr., books.....	.95
		H. R. Huntting Co., books.....	76.25
		H. R. Huntting Co. (Dean Fund), books.....	26.05
		Monitor & Statesman Co., papers.....	6.00
		Robert W. Lull, books.....	21.00
		Robert W. Lull (Eaton Fund), books.....	2.00
		Robert W. Lull (Prout Fund), books.....	9.00
		Noah F. Morrison, books.....	.90
		Open Court Publishing Co., books.....	6.60
		T. P. W. Rogers, books.....	32.99
		G. E. Stechert & Co., books.....	1.10
		G. E. Stechert & Co. (Dean Fund), books....	11.45
May	5.	T. P. W. Rogers (Dean Fund), books.....	1.00
		T. P. W. Rogers (Eaton Fund), books.....	3.90
		T. P. W. Rogers, books.....	1.00
		Boston Book Co., books.....	29.30
		Boston Book Co. (Dean Fund), books.....	19.00
		Freud & Co., books.....	3.54
		Freud & Co. (Dean Fund), books.....	13.60
		W. P. Goodman, books.....	26.41
		W. P. Goodman (Dean Fund), books.....	9.80
		W. P. Goodman (Smith Fund), books.....	3.92
		Himebaugh & Brown, books.....	13.57
		Himebaugh & Brown (Dean Fund), books....	16.90
		H. R. Huntting Co, books.....	28.74
		H. R. Huntting Co. (Dean Fund), books.....	12.20
		A. J. Huston (Dean Fund), books.....	1.51
		Old Corner Bookstore (Elliot Fund), books...	80.72
		Review of Reviews Co. (Prout Fund), books..	32.30
		N. W. Ayer & Son, books.....	5.60
		N. J. Bartlett & Co., books.....	8.50
		Bureau of University Travel, books.....	1.00
		John F. Carr, books.....	1.20
		Charles W. Clark Co., books.....	3.09
		H. M. Cook, books.....	1.00
		Girls' Trade Education League, books.....	1.45
		H. Goldberger, periodical.....	1.75
		Houghton Mifflin Co., books.....	3.50
		George P. Humphrey, books.....	2.34
		Macmillan Co., books.....	5.00
		Henry Malkan, books.....	16.56
		Noah F. Morrison, books.....	10.57
		Publishers' Weekly, books.....	1.66

May	5.	Charles Scribner's Sons, books.....	\$2.55
		See America First, periodical.....	2.00
		Springfield City Library, books.....	3.83
		Standard Book Co., books.....	6.95
		Union Publishing Co., books.....	3.60
		Frank Walters, books.....	15.75
		H. W. Wilson Co., books.....	2.20
		A. R. Womrath, books.....	4.33
		Robert W. Lull, books.....	22.50
July	2.	A. L. A. Publishing Board, books.....	1.40
		Dodd, Mead & Co., books.....	4.00
		P. F. Collier & Son, books.....	35.10
		W. B. Clarke Co., books.....	3.60
		Boston Music Co., books.....	22.33
		A. Belisle, books.....	3.00
		R. G. Badger, books.....	6.30
		W. P. Goodman, books.....	247.25
		W. P. Goodman (Dean Fund), books.....	87.01
		Himebaugh & Brown, books.....	19.44
		Himebaugh & Brown (Dean Fund), books....	4.59
		H. R. Huntting Co., books.....	54.14
		H. R. Huntting Co. (Dean Fund), books.....	3.50
		A. J. Huston, books.....	6.31
		R. W. Lull, books.....	20.45
		N. Y. Times Index, books.....	8.00
		Standard Book Co., books.....	2.40
		Standard Book Co. (Dean Fund), books.....	10.19
		Torch Press, books.....	2.10
		Union Publishing Co., books.....	3.00
		Encyclopaedia Britannica (Prout Fund), books	101.88
Aug.	2.	American Association Instructors, etc., in	
		Poultry Husbandry, books.....	1.50
		R. G. Badger, books.....	5.63
		Boston Book Co., books.....	1.00
		R. R. Bowker, books.....	6.26
		Freud & Co., books.....	4.43
		George E. Littlefield, books.....	.90
		H. R. Huntting Co., books.....	15.81
		H. R. Huntting Co., (Dean Fund), books....	10.00
		W. P. Goodman, books.....	190.04
		W. P. Goodman (Dean Fund), books.....	7.65
		W. P. Goodman (Eaton Fund), books.....	13.95
Nov.	6.	American Prison Association, books.....	2.00
		American Vigilance Association, books.....	1.00
		R. G. Badger, books.....	6.98
		Marguerite Coffin, books.....	13.60
		Freud & Co., books.....	2.35

REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 465

Nov.	6.	Freud & Co. (Dean Fund), books.....	\$10.27
		W. P. Goodman, books.....	143.61
		W. P. Goodman (Eaton Fund), books.....	3.15
		F. B. Hartranft, books.....	6.90
		Hinds, Noble & Eldredge, books.....	2.88
		Granite State Publishing Co., books.....	15.00
		Granite State Publishing Co. (Eaton Fund), books .....	6.00
		H. R. Hunting Co., books.....	10.07
		J. H. Jansen (Dean Fund), books.....	1.00
		Robert W. Lull, books.....	32.80
		Robert W. Lull (Eaton Fund), books.....	11.00
		Eben Putnam, books.....	10.85
		Sampson & Murdock Co., books.....	6.00
		Springfield City Library Association, books...	1.56
		Alfred Johnson (Eaton Fund), books.....	4.25
Dec.	13.	W. B. Clarke Co., books.....	3.60
		W. P. Goodman, books.....	257.85
		W. P. Goodman (Dean Fund), books.....	13.24
		W. P. Goodman (Eaton Fund), books.....	24.30
		W. P. Goodman (Prout Fund), books.....	8.55
		H. R. Hunting Co., books.....	15.12
		Librairie Beauchemin, books.....	31.34
		L. F. Bliss (Dean Fund), books.....	9.50
		Star Stamp Co., books.....	2.50
		T. P. W. Rogers (Dean Fund), books.....	3.50
		H. Goldberger (Elliot Fund), periodicals.....	14.30
		Funk & Wagnalls Co. (Prout Fund), books...	15.75
		McBride, Nast & Co. (Prout Fund), books....	2.15
		Sampson & Murdock Co. (Prout Fund), books	18.00
		Artemas Ward (Prout Fund), books.....	8.00
		P. F. Collier & Son (Smith Fund), books.....	10.80
		Anna Rollins, books.....	4.25
Dec.	30.	T. P. W. Rogers, books.....	25.00
		W. P. Goodman (Dean Fund), books.....	168.98
		W. P. Goodman (Eaton Fund), books.....	36.00
		W. P. Goodman (Prout Fund), books.....	86.63
		W. P. Goodman (Smith Fund), books.....	72.21
			\$2,846.71

1913.

Dec.	31.	By Dean Fund—	
		Manchester Savings Bank.....	\$2,596.94
		Manchester Savings Bank.....	3,030.33
		Mechanics Savings Bank.....	3,581.62
		Amoskeag Savings Bank.....	2,394.23
		Merrimack River Savings Bank..	2,295.29
			\$13,898.41

Dec. 31.	By Eliza A. Eaton Fund—		
	Merrimack River Savings Bank..	\$1,555.24	
	Hillsborough Co. Savings Bank..	2,792.78	
			-----
			\$4,348.02
	By Mary E. Elliot Fund—		
	Mechanics Savings Bank.. .....	\$2,411.47	
	Hillsborough Co. Savings Bank..	1,940.20	
			-----
			4,351.67
	By Emily A. Smith Fund—		
	Mechanics Savings Bank.....		5,429.15
	By Michael Prout Fund—		
	Mechanics Savings Bank.....	\$2,392.99	
	Amoskeag Savings Bank.....	2,643.31	
	Manchester Savings Bank.....	3,118.30	
			-----
			8,154.60
	By balance of appropriation for purchase of books—		
	Merchants National Bank.....		1,878.47
			-----
			\$40,907.03

We have examined the account of Edwin F. Jones, treasurer of the Trustees of the City Library, and find the same correctly cast and properly vouched.

CHARLES C. HAYES, *Mayor.*

WALTER M. PARKER,

*Committee on Finance of Trustees of the City Library.*

I have examined the account of Edwin F. Jones, treasurer of the Trustees of the City Library, and find the same correctly cast and properly voucher.

JAMES E. DODGE,

*City Auditor.*



**REPORT OF THE BOARD OF HEALTH.**



## REPORT OF THE BOAD OF HEALTH.

### *To His Honor the Mayor:*

The Board of Health submits the following report for the year 1913:

Mr. William K. Robbins having been reappointed to succeed himself as a member of the board, Dr. Gustave Lafontaine was re-elected president, and William K. Robbins was re-elected clerk of the board for the year 1913.

The appropriation made by the city council for carrying on the work of the department during the year was \$22,500, and the expenditures have been as follows:

#### OFFICE EXPENSES.

Salaries .....	\$1,140.00
Labor .....	4,649.96
Office furniture .....	14.39
Printing, postage and stationery .....	416.15
Telephone service .....	96.41
Express .....	8.05
Disinfectants .....	210.41
Antitoxin .....	951.66
Diphtheria examinations .....	51.00
Quarantined families .....	46.33
Carriage hire and carfares .....	65.88
Supplies for laboratory .....	117.83
Milk samples .....	55.18
Lighting .....	20.42
Automobiles, insurance, license, storage, supplies and repairs .....	471.10
Incidentals .....	56.74
	<hr/>
	\$8,371.51
	<hr/> <hr/>

#### ISOLATION HOSPITAL.

Salary of matron .....	\$360.00
Fuel .....	674.36
Electric lighting .....	194.81

Board of patients .....	2,627.40
Nursing .....	2,949.00
Telephone service .....	64.08
Water .....	51.70
Hacks to hospital .....	15.00
Repairs and improvements .....	11.85
Furniture and supplies .....	713.05
Labor (care of heater) .....	122.06
	<hr/>
	\$7,783.31
	<hr/> <hr/>

## SMALLPOX HOSPITAL.

Salary of matron .....	\$360.00
Fuel .....	97.35
Telephone service .....	21.20
Water .....	6.40
Electric lighting .....	33.81
Labor .....	436.42
Board of patients .....	295.99
Medical attendance .....	433.00
Vaccination .....	679.51
Repairs and supplies .....	8.06
Moving patients .....	36.00
	<hr/>
	\$2,407.74
	<hr/> <hr/>

Office expenses .....	\$8,371.51
Isolation Hospital .....	7,783.31
Smallpox Hospital .....	2,407.74
Medical inspection of schools .....	2,911.05
	<hr/>
	\$21,473.61
	<hr/> <hr/>

Amount turned in from milk licenses .....	\$440.00
Amount turned in from board of patients .....	727.04
	<hr/>
	\$1,167.54
	<hr/> <hr/>

The total of office expenses for the year is less by more than two thousand dollars, which is due principally to the fact that no automobiles were purchased and a reduction of \$851 in amount paid out for antitoxin.

Less money was spent for office furniture and more was spent for printing, postage and stationery.

Other items show the usual variations.

The expenses for the Isolation Hospital were only slightly above those of last year and those for the Smallpox Hospital were higher by \$646, owing to the fact that forty-four cases were treated there.

The cost for medical inspection of schools is slightly reduced.

The amounts turned into the city treasurer for license fees and from board of patients is approximately the same.

The total expenses for the year were therefore \$21,473.61, leaving \$1,026.39, which was transferred by the city council to other accounts, and there was turned into the city treasury \$440.50 for milk licenses and \$727.04 for board of patients at the Isolation Hospital.

#### MEETINGS.

The regular weekly meetings have been held at five o'clock on Tuesday afternoons, giving the public the opportunity to meet the full board for the transaction of whatever business may be presented.

Forty-five such meetings were held and ten special meetings were held for trips of inspection and such business as required immediate attention.

#### BACTERIOLOGICAL LABORATORY.

Two hundred and four examinations for diphtheria have been made during the year, forty-seven being positive, or true diphtheria, and one hundred and fifty-seven negative. Twenty-eight of the negative results were for the discharge of patients.

As in previous years these cultures have usually been sent to the Concord State Laboratory, but the examinations are made by Dr. William R. Lightbody in our own laboratory when occasion demands.

There is still a strong demand for a bacteriological branch of the State Laboratory of Hygiene in this city.

#### PLUMBING INSPECTION.

More plumbing work has been done this year than for any year of which we have any record, owing to the large number of tenement and apartment houses which have been built to accommodate the increased population.

Some plumbing work has been done by unlicensed men, who were caused to desist from further work, but with this exception very little trouble has been experienced in enforcing the plumbing rules, as they have become too well known and the necessity for them too well understood to be questioned.

#### MILK INSPECTION.

This work has been continued upon the same lines as last year. Many new dairies have been inspected and a large number re-inspected, and gratifying improvements found.

Interest in the production of clean wholesome milk has been promoted, and as the year closes one concern is beginning to put out "inspected milk," in compliance with the regulations established by the State Board of Health, giving to dealers the right to sell as "inspected milk" the milk which is produced under specified conditions so that the name is a guarantee of cleanliness of production and handling.

The milk inspectors' report will give this subject more detailed treatment.

#### ISOLATION HOSPITAL.

This institution is used more and more as the people become better acquainted with its advantages. Its growth has been normal and continuous, and although the buildings have been repeatedly enlarged it is now inadequate to do its best work.

There were sixty-five cases of scarlet fever and eighty-seven cases of diphtheria cared for at the hospital during the year, and of this number forty-six were private patients who paid their board, and one hundred and six were cared for at the expense of the city.

The large number of cases of scarlet fever during the year has demonstrated the inadequacy of the present building beyond the shadow of a doubt and proven that such small added capacity as would be given by the proposed new administration building, would not be sufficient even for present needs.

It is therefore fortunate that the appropriation of \$4,000 granted for that purpose was not used, owing to all the bids for construction being largely in excess of this sum.

It is now plainly apparent that an entire new set of hospital buildings should be constructed of brick and as near fire-proof as possible, and with capacity for larger numbers of patients than we have yet treated.

It should also include a smallpox ward, as the building used for that purpose is very old and the arrangements under which it must be managed are unduly expensive.

This board has therefore decided to ask for an appropriation of \$50,000 for such a new Isolation Hospital.

The old Isolation Hospital has rendered excellent service during the year under adverse conditions.

#### SMALLPOX HOSPITAL.

This hospital was in use during eight months of the year and forty-four cases of this disease were treated there.

There is no doubt that these patients could have been cared for at less expense and at the same time given better accommodations in a ward of a modern Isolation Hospital.

One case of varioloid, in a person who had been vaccinated many years before, to forty-four cases of straight smallpox shows anew the efficacy and importance of vaccination.

People cannot be urged too strongly or too often to protect themselves and their families by vaccination and re-vaccination, at least once in ten years.

Through technicalities of the law a considerable number of school children are escaping vaccination, and it will not be long before a sufficient number of unprotected people will be in our midst to cause such an epidemic as was experienced in Somersworth during the past year.

The vaccinated need have no fear, but the unvaccinated should be prepared to meet experiences many times more painful and dangerous than a possible sore arm.

#### JUNK DEALERS.

The concessions made last year by the board have proven satisfactory and the requirements have been reasonably fulfilled.

#### BURIAL OF THE DEAD.

Undertakers have complied with the laws and no serious trouble has been encountered.

Lying-in hospitals and infant boarding houses have been inspected and found to be satisfactory.

#### BARBER SHOPS.

A score card system of barber shop inspection has been established and is giving good satisfaction.

The poorer shops are improving and the better ones are enthusiastic to be able to put up in their shops a card with a perfect score.



# BARBER SHOP

SANITARY INSPECTION

## SCORE CARD

BOARD OF HEALTH, MANCHESTER, N. H.

Name .....

Place of Business ..... St.

	Perfect	Allowed
Cleanliness of Shop . . . . .	50	
Cleanliness of Tools . . . . .	30	
Equipment . . . . .	30	
Miscellaneous . . . . .	10	
<b>TOTAL SCORE</b>	<b>100</b>	

Date ..... 191

.....  
INSPECTOR.



METHODS	SCORE		EQUIPMENT	SCORE	
	Perfect	Allowed		Perfect	Allowed
<b>Shop Cleanliness</b>			<b>Construction</b>		
Cleanliness of floors .....	3	.....	Floors, wood or.....	2	.....
“ “ walls .....	2	.....	Walls, painted or.....	1	.....
“ “ ceiling .....	1	.....	Ceiling, steel or.....	1	.....
“ “ benches .....	3	.....	Benches, wood or.....	2	.....
“ “ shelves .....	1	.....	Shelves, wood or.....	1	.....
“ “ windows .....	3	.....	Windows, size ample.....	1	.....
“ “ cellar or storeroom.....	3	.....	Size of room, ample.....	1	.....
Closets for barbers' clothes.....	1	.....	Cellar free from rubbish.....	1	.....
Drawers for tools clean.....	2	.....	Sterilizer, kind .....	2	.....
Receptacles for towels clean.....	3	.....	Chairs, kind .....	2	.....
“ “ shaving papers .....	3	.....	Individual mugs, number.....		.....
Drawers and closets, stock.....	2	.....	Lights, kind, ample.....	2	.....
Contaminating surroundings .....	2	.....	Water heater, kind:		.....
Toilets convenient and clean.....	1	.....	Gas, coal stove or.....	1	.....
Total .....	30		Temperature of water.....°F.	2	.....
			180° 2. 150° 1.		.....
<b>TOOLS</b>			Ventilation, free from odors....	2	.....
Cleanliness of chairs .....	2	.....	Compressed air .....	2	.....
“ “ razors .....	3	.....	Cuspidors, ample number.....	2	.....
“ “ sterilizers .....	3	.....	Antiseptics for sterilizing tools,		.....
“ “ shears .....	1	.....	kind .....	2	.....
“ “ clippers .....	1	.....	Cosmetics .....	2	.....
“ “ strops .....	2	.....	Hair oil .....		.....
“ “ hones .....	1	.....	Bay Rum .....		.....
“ “ shaving brushes..	2	.....	Witch Hazel .....		.....
“ “ hair brushes.....	3	.....	Talcum powder .....		.....
“ “ combs .....	3	.....	Vaseline .....		.....
“ “ mugs .....	2	.....	Alum .....		.....
“ “ tweezers }		.....	Caustic .....		.....
“ “ needles }	1	.....	Shaving soap, powdered, hard		.....
“ “ lances }		.....	or .....	1	.....
“ “ neck duster.....	1	.....			.....
“ “ head rest .....	1	.....			.....
Sweet and clean towels .....	1	.....			.....
“ “ wash basin .....	1	.....			.....
Disinfected, “ cuspidors .....	1	.....			.....
Papers for head rest clean.....	2	.....			.....
Total .....	30				.....
Personal appearance washable		.....			.....
coat .....	5	.....			.....
Miscellaneous .....	5	.....			.....
Total .....	10				.....
Total .....	70		Total .....	30	

## RUBBISH NUISANCES.

No year goes by without more or less complaint about the nuisances of city rubbish dumps.

The Board of Public Works has complied fairly well with the injunction of the court against making these rubbish dumps of perishable material within the sanitary limits of the city.

It costs large sums to transport this trash to the necessary distances, and even then a nuisance is made for somebody.

This material is comparatively free from swill and is not immediately offensive.

It has a very large fuel value and should be taken to some central station and consumed by fire. The heat generated would have a utilizable value and the clinker would be a safe and suitable filling for streets and low lands.

This is not a new matter, but it becomes every year a more important one, and this board solicits the coöperation of other city departments, the Chamber of Commerce and citizens generally, in a joint working out of some proper, sanitary and economical means of disposing of the city wastes.

## INFANT MORTALITY.

During the past year much public talk and a great deal of journalistic space has been given to this subject.

There has been shown much interest, a little information and a great deal of misinformation and wrong conclusion.

Most of the "statistics" are quoted from a United States Census Report issued in 1909, based on supposed information "gathered" in 1908 about conditions in 1905, and the tables are accompanied by a foot note saying that the figures are estimated for that period, which makes it not statistics but guesses.

Much unjust reflection has been cast upon our city, and with a persistence which indicated more of a greed for calamity than of desire for improvement.

Agitators have jumped to the conclusion that because women are employed in the mills, therefore the infant mortality is high, and they quote figures about conditions eight or nine years ago, without consulting available records.

The annual report of this board for 1912 gave the exact mortality of infants per thousand of living births, from the year 1901 to 1912 inclusive, yet no reference has been made to this in journal or from platform.

No attempt has been made to find out the causes or conditions contributing to this mortality, such as modes of life, tastes, habits, social and intellectual developments of the parents of these infants, or it would have been discovered that the great majority of these infant

deaths occur among people who are living in what is to them a new environment, with new conditions of society and occupation, and the child is often a neglected entity.

Its food is not prepared with skill or care, its milk is not kept cool or protected from flies or dirt, and the wage has little effect on this, or the habit of cleanliness of person or premises.

The finest tenements would soon be no cleaner than the ones now occupied. Screened doors or windows cannot be maintained by any landlord. Bathtubs are only used by them for wood, coal or general storage, and a good water closet is a place for anything, from proper soil to tin cans and beer bottles.

No landlord could keep them in working order, and if such could be done, no one has yet discovered a way to keep the outer parts and floors sufficiently clean for proper use.

This is not the fault of the employers, the landlords or themselves. It is their *misfortune* of development, or lack of development.

A better remedy than critical agitation will be found in a patient study of the real conditions of living among these people, and by giving them sympathetic encouragement and instruction in sanitary habits of living, suited to their tastes and social conditions.

Overcrowding is one of the first things to correct, first by encouraging a desire to live right, and next by securing the passage of laws specifying conditions, such as cubic feet of space per person, either child or grown, sick or well, male or female, and window size according to space, etc., which will be a definite line of demarkation that this board can follow, because there is no use to start in until a clear limit is established.

Also the law should require a water closet for each family.

The present law requires one for each fifteen persons, which involves a divided responsibility. This divided responsibility is probably the cause of most of the filthy conditions which this board is called to see.

Another law much needed is one which will effectually stop the selling of ice cream, fruit or food products to children on the street.

Some grown person should prescribe when, where and what children should eat.

#### MEDICAL INSPECTION OF SCHOOLS.

In last year's annual report will be found a good description of the system followed, together with the forms for the various reports.

During the year a report was made to the School Committee severely criticising our system, and stating among other things that it does not give ten per cent of what it ought with a single medical inspector and nurses.

This was made without any inquiry of the board as to reasons for its present procedure, which reasons it seems proper to mention here.

When the inspection was started the subject of a single inspector

was discussed and many inquiries made among the physicians as to the availability and pay of one person to give full time to the work.

The answer was always prompt and decisive: "I would not consider it for a moment, and I know of no one who has started in to practice who would, even though he were offered more than is likely to be appropriated for the purpose. You would have to get a physician who has made a failure of his profession or take a graduate just out of the medical college, and you would not be likely to get a very good one then."

Again the board was mindful of the fact that the schools are open and available for inspection work only about twenty hours per week, which would give too little time for one man to examine the thirteen thousand pupils of this city.

Again we had no law to give authority or stability to the work except that requiring vaccination, and the Board of Health to enforce it.

The school committee had asked for medical inspection and we took it that medical and not *teacher* or *nurse* inspection was wanted.

So it was decided to follow the system advocated by Dr. Gulick, the most quoted authority on the subject then, as now, as far as circumstances would permit.

Reputable physicians could be found who would give part of their time to the work for a nominal sum and the satisfaction of rendering a public-spirited service to the community, and it was with difficulty that an appropriation was obtained to pay six of such, and each and every one of them has always protested that they had more pupils to examine than could be attended to with full satisfaction to themselves.

These physicians have not asked for nurses to do the "follow up" work which we hear so much about, and some have stated that they have little or no use for them.

However, in view of the agitation that has been made, the board has decided to ask for an additional amount to pay nurses for the coming year.

The result we have obtained may not be all that can be desired, yet we are unable to see how, under the circumstances, more could have been done.

The extent to which the inspection and "follow up" work should be carried and stop short of damaging paternalism can only be determined by experience, which in our opinion should be conservatively receptive.

The tables giving the detail of the work of the year follow.



MEDICAL INSPECTOR'S REPORT OF SCHOOLS—1913.—Continued.

District.	SCHOOLS.	No. Pupils.	Not Vaccinated.	Mumps.	Whooping Cough.	Chicken Pox.	Tuberculosis.	Scabies.	Herpes.	Ringworm.	Pediculosis.	Eczema.	Nose Catarrhal.	Eyes Catarrhal.	Ears Catarrhal.	Adenoids.	Chr. Tonsillitis.	Vision Defective.	Hearing Defective.	Decayed Teeth.	Anaemia.	Defective Heart.	Enlarged Glands.	
No. 5 Dr. E. C. Tremblay.	St. Augustine, Boys	450	122	0	0	0	0	0	3	0	13	1	13	0	0	0	0	26	0	1	0	0	0	
	St. Augustine, Girls	400	94	0	0	0	0	0	4	0	11	2	12	0	0	6	6	23	6	37	0	0	0	
	St. Augustine, Orph.	150	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	5	0	0	0	
	Holy Rosary.....	160	47	0	0	0	0	0	1	0	3	0	5	0	0	1	29	0	0	0	0	0	0	
	St. Raphael.....	220	45	0	0	0	1	0	2	0	5	0	11	0	0	1	36	2	0	0	6	0	0	
	Varney.....	406	43	0	0	0	0	0	3	0	19	0	6	4	1	5	88	6	2	32	0	0	0	
	Parker.....	310	19	0	0	0	0	0	1	0	6	3	4	0	0	5	49	4	3	11	0	0	0	
	St. Edmond.....	38	10	0	0	0	0	0	1	0	2	0	3	0	0	0	14	0	0	7	0	0	0	
	Sacred Heart.....	304	111	0	0	0	0	0	0	2	0	15	1	9	0	0	5	80	5	24	0	0	0	
	No. 6 Dr. F. N. Rogers.	Wilson.....	385	18	0	0	0	0	0	0	0	0	0	0	0	0	7	34	0	0	149	0	0	0
		St. Anthony.....	650	166	0	0	0	0	0	0	0	0	0	0	0	0	5	38	0	0	250	0	0	0
Hallsville.....		456	42	0	0	0	0	0	0	0	0	0	0	0	0	6	38	4	0	215	0	0	0	
Bakersville.....		318	7	0	0	0	0	0	0	0	0	0	0	0	0	0	34	4	0	155	0	0	0	
Highland.....		64	9	0	0	0	0	0	0	0	0	0	0	0	0	2	4	1	1	24	0	0	0	
Gov's Falls.....		66	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	25	0	0	0	
Harvey Dist.....		23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Mosquito Pond.....		26	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	12	0	0	
Webster Mills.....		13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	3	0	0	
Youngsville.....		110	5	0	0	0	0	0	0	0	0	0	0	0	0	1	6	3	0	43	0	0	0	
Totals,		13,760	1,768	0	9	1	7	12	245	3	373	26	283	54	57	459	1,442	527	82	2,167	217	132	156	

## CONTAGIOUS DISEASES.

The total number of contagious diseases during the year was seven hundred and seven, and of this number three hundred and ninety were measles, from which one death resulted.

There were one hundred and thirty-eight cases of diphtheria, with twelve deaths; twelve cases of typhoid fever, with five deaths; one hundred and two cases of scarlet fever, with six deaths; forty-four cases of smallpox and one case of varioloid.

Pneumonia was as usual the most fatal of all diseases, causing one hundred and twenty-six deaths.

The next highest death rate was from tuberculosis, from which there were ninety deaths, against fifty-eight for the previous year, and seventy-one deaths were caused from cholera infantum.

The increased number of deaths from the latter cause we attribute largely to the unfavorable weather of July and August, which is always a large factor in this and other diseases of an intestinal nature.

The tables of statistics and the reports of the inspectors, shown on the following pages, give some interesting information.

In concluding this report we would extend our thanks to the public in general, and to the mayor and city government in particular, for the assistance and encouragement received from them in discharging the duties of this department.

Respectfully submitted,

GUSTAVE LAFONTAINE.

WILLIAM K. ROBBINS.

JOHN B. CAVANAUGH.

TABLE No. 1.

COMPARISON OF STATISTICS OF CONTAGIOUS AND INFECTIOUS DISEASES FOR THE PAST 29 YEARS.

YEARS.	Diphtheria.		Typhoid fever.		Measles		Scarlet fever.		Varioloid.		Small-pox.		Poliomyelitis		Cerebro spinal Meningitis		Total.	
	Cases.	Deaths.	Cases.	Deaths.	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	54	23	74	21	67	3	223	8	.....	.....	.....	.....	.....	.....	.....	.....	418	55
1895..	64	22	73	21	55	4	68	1	.....	.....	.....	.....	.....	.....	.....	.....	260	48
1896..	120	42	81	20	500	3	61	1	1	.....	.....	.....	.....	.....	.....	.....	763	66
1897..	162	39	78	11	387	3	54	1	.....	.....	.....	.....	.....	.....	.....	.....	681	54
1898..	91	21	145	14	88	3	200	9	.....	.....	.....	.....	.....	.....	.....	.....	524	47
1899..	6	9	78	12	762	5	130	3	.....	.....	.....	.....	.....	.....	.....	.....	1,026	29
1900..	46	13	65	11	827	1	102	6	10	.....	52	.....	.....	.....	.....	.....	1,102	32
1901..	21	6	55	11	15	.....	48	9	16	.....	178	.....	.....	.....	.....	.....	333	25
1902..	151	31	49	8	765	5	33	2	.....	.....	28	.....	.....	.....	.....	.....	1,026	46
1903..	172	33	62	10	112	1	37	2	1	.....	161	.....	.....	.....	.....	.....	545	46
1904..	79	15	64	13	69	.....	67	1	9	.....	105	1	.....	.....	.....	.....	393	30
1905..	147	31	51	9	859	4	53	1	.....	.....	1	.....	.....	.....	.....	.....	1,111	45
1906..	197	43	32	5	23	.....	93	1	.....	.....	.....	.....	.....	.....	.....	.....	345	49
1907..	255	29	37	8	513	3	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	837	38
1908..	492	41	143	18	55	.....	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	715	59
1909..	331	38	34	11	747	4	85	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,197	42
1910	171	25	30	8	110	.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	326	33
1911	118	10	37	5	172	.....	47	3	3	.....	26	.....	.....	.....	.....	.....	403	18
1912..	168	15	16	6	318	2	55	.....	.....	.....	18	.....	.....	.....	.....	.....	575	28
1913..	138	15	12	5	390	1	102	8	1	.....	44	.....	18	11	11	9	707	49



TABLE No. 2.  
CONTAGIOUS DISEASES IN 1913.

MONTHS.	Diphtheria.		Typhoid Fever.		Measles.		Scarlet Fever.		Vario- loid.		Small-pox.		Polio- myelitis.		Cerebro- spinal Meningitis.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	34	1	2	.....	4	.....	8	.....	1	.....	11	.....	.....	.....	.....	.....	63	1
February.....	27	.....	1	1	96	.....	6	.....	.....	.....	14	.....	.....	.....	.....	.....	144	1
March.....	8	1	.....	.....	10	1	7	1	.....	.....	2	.....	.....	.....	.....	.....	127	3
April.....	8	.....	2	.....	59	.....	2	.....	.....	.....	6	.....	.....	.....	.....	.....	77	.....
May.....	7	.....	1	.....	30	.....	1	.....	.....	.....	4	.....	.....	.....	.....	.....	43	.....
June.....	8	3	.....	.....	65	.....	6	.....	.....	.....	2	.....	.....	.....	.....	.....	81	.....
July.....	1	.....	.....	.....	13	.....	4	1	.....	.....	1	.....	.....	.....	.....	.....	19	1
August.....	6	.....	.....	.....	3	.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	12	.....
September.....	6	1	3	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	3
October.....	11	1	.....	1	4	.....	11	.....	.....	.....	.....	.....	10	.....	1	1	37	2
November.....	13	3	3	.....	1	.....	22	2	.....	.....	.....	.....	7	3	.....	.....	46	5
December.....	9	2	.....	1	5	.....	31	2	.....	.....	.....	.....	1	1	1	1	47	7
Totals.....	138	12	12	5	390	1	102	6	1	.....	44	.....	18	4	2	2	707	23







TABLE No. 4.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Gangrene.....	1	1	1	1		1							5
Gastritis.....	1					1		1		1	1		5
Glanders.....		1											1
Goitre, exophthalmic.....													1
Hæmaturia.....				1									1
Heart, dilatation of.....	1		3	1	2								7
" disease of.....	3	6	6	2	3	3		5	3	3	5	2	41
" fatty degeneration of.....			1			1			1				3
" hypertrophy of.....	1				1								2
" valvular disease of.....	2	4	4	1	3	3	4	1	4	3	2	3	34
Hemiplegia.....										1			1
Hæmorrhage Postpartum.....												1	1
" uterine.....												1	1
Hepatitis.....			2										2
Hernia strangulated.....		2	1		1								4
Hydrocephalus.....	1												1
Hypertrophication.....		1											1
Icterus neonatorum.....					1			1		1	1		4
Indigestion, acute.....	1	2		2	1			1		1			8
Intestinal obstruction.....	1		1	1	2	1		1	1		2	1	11
Intoxication Auto.....				1							1		2
La Grippe.....	1	1											2
Laryngitis.....								1					1
" tubercular.....						1							1
Leukaemia Lymphatic.....											1		1
Liver, cirrhosis of.....		1	1		1				1	2	1	2	9
Lungs, congestion of.....				1									1
Malformation.....		1		1									2
Malnutrition.....				3	1	1				2		2	9
Marasmus.....	6	2	5	2	2	5	5	11	6	4	7	7	62
Measles.....			1										1
Melæna neonatorum.....										1			1
Meningitis.....	1	3	1	2	1	2	4	5	3	1	1	2	26
" cerebro-spinal.....	1	1		1	2		1		1	1		1	9
" tubercular.....				1	1	1	1	1	1	1	1	1	9
Myelitis.....										2			2
Myocarditis.....	2			2	2	2		1				3	12
Necrosis cerebral.....			1										1
Nephritis.....	4	6	2	1	3	2	2	2	3		2	2	29
" chronic interstitial.....	1	1		1				1	3	3	1	3	14
Neurasthenia.....	2												2
Œdema of brain.....									1				1
" of larynx.....										1			1
" pulmonary.....	2	1		2	1	1	1	1					9
Old age.....	7	3	5	2	1	2	2	3	3		1	2	31
Osteomyelitis.....						1							1
Pancreatitis.....	1												1
Paralysis.....	4		1	1	1	1	1	1	1	1	3	1	16
Pericarditis.....			1		1								2
Peritonitis.....		1		2	1		3	1	1		2	2	13
" tubercular.....								1		1			4
Pertussis.....						2	1	1					3
Pleurisy.....		1		2									3
Pneumonia.....	14	14	7	8	2	6	6	2	3	2	2	7	73
" broncho.....	6	5	11	5	2	5	4		3	4	1	6	52
" pleuro.....								1					1
Poisoning from Arsenic.....		1											1
" from salicylic acid.....												1	1
Poliomyelitis.....		1				1		1			3	1	8
Premature birth.....	4	3	2	4	4	3	2	5	4	2	2	1	36
Prostatitis.....												1	1
Pyæmia.....		1											1
Pyelitis.....	1					1							2
" tubercular.....				1									1
Rachitis.....											1		1

TABLE No. 4.—*Concluded.*

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Rheumatism..			1										1
Sarcoma.....									3				3
“ of Brain.....				1	1								2
“ of Ovary.....						1							1
“ of Spleen.....											1		1
“ of Uterus.....				1		1							2
Sclerosis, arterio.....	2	6	2	3	2	1	2	4	1	1	1		25
Septicæmia.....	1	1		1	3	1	1			1	1	1	11
Spina bifida.....	2	1	1	1	1		3						9
Stillborn.....	12	8	8	7	12	11	11	4	14	12	7	16	122
Suicide by cutting throat.....			1			1		1					3
“ by drowning.....											1		1
“ by hanging.....									1				1
“ by illuminating gas..	1	1				1							4
“ by poisoning.....				1				1					3
“ by shooting.....					1	1							3
Surgical shock.....	2			1	1	1							7
Syphilis Hereditary.....											1		1
Tonsilitis Follicular.....									1				1
Tuberculosis.....		2	3	2	2			2	1				12
“ pulmonary.....	8	11	4	7	10	7	2	3	8	9	3	6	78
Ulcer Duodenal.....					1								1
Unknown, natural causes.....									2	1			3
Uræmia.....			2	1	2	1	4	3	3	2		2	20
Valvulus.....				1									1
Totals.....	134	129	106	105	106	108	137	152	131	93	92	113	1411

## REPORT OF THE INSPECTOR OF MILK.

---

*Gentlemen of the Board of Health:*

I beg leave to submit the following report of the inspection of milk during the year 1913.

Number of samples milk, skim milk and cream tested..	826
Number of samples milk brought in by milk dealers and citizens .....	99
Number of samples of milk collected by inspectors....	727
Number of letters written to dealers and others.....	457
Number of dealers found selling without a license.....	39
Number of wagons improperly marked.....	43
Average total solids estimated .....	12.53
Average acidity from January 1 to December 31.....	.138%
Average butter fat in 30 samples cream.....	26.68%

Every sample was tested for formaldehyde and many additional tests were made for colostrom cells, coloring matter, carbonates, bacteria, benzoate of soda, salicylic acid, boric acid, cream thickeners, added water and other adulterations.

During the year I have notified twelve milk dealers to appear before the board for violating the milk laws, and this has proved effective in stopping minor violations.

The number of licenses granted during the year was 369; 91 of these were granted to milkmen, 197 to proprietors of stores and 81 to people keeping cows and selling milk from their own premises.

The sum of four hundred and forty dollars and fifty cents was collected for license fees.

Dairy farms have been inspected and scored this year.

We have used the official Dairy Instructors' Association score card (which is used all over the United States), with the following results: 420 dairy farms were scored, with an average score of 46.38, which we consider a very good showing.

Twenty-five city milk plants were scored with an average of 71.10; 214 dairy barns were ordered whitewashed; 86 milk pails were found insanitary and condemned.

We find that the average milking pail is the source of a great deal of the contamination of milk; that the pail with the wire gauze strainer is the filthiest of all, and almost always the spout is coated with milk in various stages of decomposition. We do all we can to discourage the use of this pail, and recommend the small-top milking pail, which, with reasonable care, will insure clean milk and is easily cleaned and kept sanitary.

We propose to make a return visit to all farms that fail to come up to a certain score, and if conditions are not improved enough to bring the score up to 40, or perhaps 50, we will make a formal complaint to the State Board of Health, under chapter 15, Statute Laws of 1911.

Under the title, "What Adulteration and Misbranding Are Under the Law," is the following in regard to milk:

"Milk.—The standard requires not less than twelve per cent of total solids. Milk containing any visible sediment (manure, bedding, hairs, etc.) will be deemed as adulterated under the law, as will milk produced from sick or diseased animals."

Thus the importance of clean milk is readily seen, and its production under clean, sanitary conditions is one of the most essential things in bringing about good results.

Supplying milk to 75,000 people is a problem which presents many difficulties. The farmers, dealers and consumers have to be considered in ordering changes and improvements necessary to insure a sanitary milk supply. Credit should be given the careful and conscientious producer and his product should be given the preference.

It is possible to produce high-grade milk in a common cow barn by taking just a little more pains and by using modern methods, with almost no additional cost.

Take producers A and B for instance:

Producer A keeps a large herd of cows and makes a regular business of raising milk; he takes pains to keep his cows clean and healthy, his barn clean and well ventilated; he has a milk room where he sterilizes his milking pails, cans, bottles, etc.; he cools his milk immediately, bottles it and keeps it cool; he watches every ailment of his cattle and discards any milk from sick cows; he owns the farm and is trying to educate his children. He is the farmer that should be encouraged, and fortunately we have many of this kind.

Producer B has a farm where the chief product is other crops than milk and milk is a by-product; he has no customers who are consumers, but sells his milk to dealers who make a business of peddling milk. His methods are crude and his whole place is out of date and repair; he does not always take as much pains to produce wholesome and clean milk as he should. His milk supply we do not consider as suitable for children or invalids as that from producer A, but it is a good food for common use, and adults would not suffer any by using it.

Early in February I had the honor to be appointed by Governor Felker as one of three delegates to attend the Conference on State Control of the Milk Supply, held in New York City, February 5 and 6.

These delegates were Fred Rasmussen, professor of dairying at the State College, Stanley H. Abbott of Wilton, representing the State Grange, and myself, milk inspector of Manchester, N. H.



The delegates returned from that conference to hold a meeting with the milk inspectors of the state for the purpose of discussing the possibility of introducing into New Hampshire some of the measures adopted at the national conference.

As a result of this meeting the New Hampshire Sanitary Milk Association was formed for the purpose of promoting a campaign of education for the betterment of the milk supply of the state, to draw the attention of producers and consumers alike to the value of milk as a food, and to the necessity of the proper care of milk, and its relation to public health.

Under the Laws of 1911 it is possible to grade milk as certified, inspected, and common market milk.

Practically no attempt had been made to take advantage of this statute, but the new Sanitary Milk Association pushed the matter.

After a conference with a committee of the association, the State Board of Health on April 15, 1913, adopted the following regulations providing for the production of inspected milk.

#### INSPECTED MILK.

License for the production and sale of "inspected milk" may be granted by the State Board of Health for a period not exceeding one year, after an inspection of the premises where the said milk is to be produced by a representative of the State Board of Health, and after all the requirements promulgated by the board have been provided for, and all of the conditions have been agreed to in writing by the producer.

When all of the conditions and requirements have been met to the satisfaction of the State Board of Health, the latter board may issue a license to use the term "inspected milk," and shall furnish milk-bottle caps with such inscription, statement or design as may be decided upon, the same to be paid for by the producer.

The purpose of the procedure is to secure a reasonably clean, safe and healthful milk of a high grade, because produced under strict supervision and better conditions than is usual.

The following, briefly stated and without elaboration of details, are the conditions under which such milk may be produced and sold:

#### STABLES.

Stables shall be kept well whitewashed, ventilated and reasonably clean.

The walls shall be whitewashed, unless their construction renders it unnecessary, and they shall be kept free from cobwebs, dirt, etc.

The manure should be removed at least twice daily, and proper bedding should be provided to keep the animals reasonably clean.

## COWS.

Physical examination shall be made of the cows at least twice a year by a veterinarian approved by the State Board of Health. The tuberculin test shall be applied at least once a year, and any cows reacting shall be promptly removed from the herd.

No new cows shall be added until after they have passed the tuberculin test and a physical examination by a veterinary surgeon approved by the State Board of Health.

Cows, and especially their udders, shall be clean at the time of milking.

## MILK-ROOM.

A milk-room that is clean, light and screened shall be provided for the cooling, bottling and storing of the milk and the operations incident thereto.

## EMPLOYEES.

All employees connected in any way with the handling of the milk shall be personally clean and free from any communicable disease.

The health authorities shall be notified at once if any communicable disease appears in any person having to do with the handling of the milk, or in the family of the milkman or producer. Under such circumstances no milk shall be disposed of until officially authorized in writing.

## UTENSILS.

All utensils and apparatus with which the milk comes in contact shall be thoroughly washed, and sterilized with boiling water or steam, and shall be used for no other purpose than that for which they were designed.

No milk bottles shall be removed from a house in which there is or recently has been a case of communicable disease until official permission is granted.

Small-top milk pails shall be used.

No unwholesome food or food liable to taint the milk shall be fed to the cows.

## MILK.

The milk shall not be strained in the cow stable, but shall be removed to the milk-room immediately after it is drawn. It shall be cooled to 50° Fahrenheit, or below, immediately after it is drawn from the cow, and shall be kept at that temperature until it is delivered to the consumer.

The milk shall be delivered in single-service containers, unless special permission for other method of delivery is granted.

The milk shall not contain bacteria in excess of 100,000 per cubic centimeter, and must be entirely free from pathogenic germs.

## INSPECTIONS.

Inspections will be made from time to time by inspectors designated by the State Board of Health. No person will be appointed as inspector who has not first obtained a certificate from the superintendent of the dairy department of the New Hampshire College of Agriculture showing the holder to be qualified to perform the duties imposed under the regulations. Samples of the milk for chemical and bacteriological examination may be taken at any time. License to use the term "inspected milk" may be revoked at any time for non-compliance with the regulations established by the State Board of Health.

## CONCLUSION.

Inspected milk is now produced in Manchester, Nashua, Portsmouth, Berlin and Dover, N. H.

Seventeen producers have had their cattle tuberculin-tested, and seven have already been granted licenses by the State Board of Health.

About six hundred cattle have been tested, with an average of ten per cent reactors.

The object of this movement is to provide a milk so marked that any person who wants milk produced under extra sanitary conditions and from tuberculin-tested cows will know it by its label, and to give the enterprising farmer a better market for his milk.

Respectfully submitted,

CARL O. SEAMAN,

*Milk Inspector.*

JOSEPH X. DUVAL,

*Assistant Milk Inspector.*

## REPORT OF THE PLUMBING INSPECTOR.

### PLUMBING FIXTURES SET.

Number of tank water closets .....	1,249
sinks .....	961
bathtubs .....	871
wash basins .....	1,521
wash trays .....	676
urinals .....	32
refrigerators .....	46
slop hoppers .....	21
drinking fountains .....	40
frost-proof closets .....	3
Other fixtures not classified above.....	43
Total number of fixtures put in.....	
	5,463
Number of plumbing notices filed .....	
water tests of soil pipe made .....	582
rain leaders .....	780
stacks of soil pipe made .....	150
smoke tests of soil pipe .....	810
defects and leaks found .....	97
complaints investigated .....	183
fixtures and pipes found unserviceable and repaired .....	23
letters written .....	30
	101

One hundred and seventy consultations with owners, tenants, agents, plumbers, etc., were held.

A total of 3457 inspections were made of the work during its progress and after its completion.

The year 1913 has proved to be the busiest year of which I have any record, more plumbing fixtures being put in buildings than ever before.

I have used the new motor car in making many of these inspections and find that it saves time and car fares. One man can do more work and make more calls than three men can do using the trolley cars.

I have investigated several complaints in regard to men doing plumbing work without a license, and in two cases the men have been called before the chief or deputy chief of police and warned to either get out of business or take out a master plumber's license.

Early in the year complaint was made that lead paint used on threads of water pipes had caused sickness in a family who had just moved into a new house.

Investigation showed that two people and a cow were sick, the symptoms being lead poison, and later the cow died.

I took samples of the paint and sent it to the State Laboratory of Hygiene for analysis and found it to be lead oxide.

The state chemist advised that this kind of pipe joint cement and any red or white paint be tabooed as being dangerous to use.

The Board of Health therefore sent to each master plumber in Manchester the following letter :

“Owing to the poisonous nature of lead compounds used in making joints in water pipes, the Board of Health warns all plumbers not to use white lead, red lead, lead paint, or other lead compounds, on water pipes used for drinking purposes.

“Black lead, graphite or plumbage are safe to use, as well as other compounds made of non-poisonous materials.

“We trust that you will coöperate with us and prevent sickness to your customers and to the public.”

At a joint meeting of the Committee on Public Health, the Board of Public Works and the Board of Health, it was recommended that chapter 18, section 3, be amended to read :

“All drains which shall be entered into the common sewers shall be constructed of stone, brick, cement, concrete, vitrified or glazed sewer pipe, or iron, and all the joints and connections securely cemented or calked.

“Drain pipes from fixtures in cellars and basements shall be provided with a gate or some other apparatus that shall prevent the water from the common sewers pouring back through said drain.

“Said gate or other apparatus shall be inserted between the main stack and said cellar or basement fixtures.”

This is the only change affecting the plumbing rules made during the year.

Thieves have caused some trouble and annoyance by stealing lead pipes and lead traps from three different buildings in process of erection during the year, and plumbers should be careful not to leave lead materials exposed any more than they can help while the building is going on.

Respectfully submitted,

CARL O. SEAMAN,

*Plumbing Inspector.*

## SANITARY INSPECTOR'S REPORT.

*Gentlemen of the Board of Health:*

We beg to submit the following as the report of the work of the sanitary inspectors for the year 1913:

Vaults and privies inspected.....	95
Vaults inspected after cleaning.....	23
Water closets inspected.....	1,439
Urinals inspected .....	72
Sinks inspected .....	1,528
Yards and alleys inspected.....	1,605
Cellars inspected .....	999
Barns and outbuildings inspected.....	127
Tenements inspected .....	1,002
Barn cellars inspected .....	104
Teams and riggings of excavators inspected.....	7
Soaperies and slaughter houses inspected.....	17
Vaults and privies ordered cleaned or repaired.....	15
Yards and alleys cleaned.....	491
Cellars cleaned.....	220
Barn cellars cleaned.....	18
Sheds, etc., cleaned and inspected.....	114
Tenements cleaned.....	21
Water closets cleaned or repaired.....	492
Sinks trapped or repaired.....	80
Leaky drain pipes repaired.....	75
50 cesspools were inspected and 21 ordered cleaned.	
92 swill boxes and chutes were inspected.	
Houses within 100 feet of the public sewer and not connected therewith.....	27
Filthy hallways and roofs ordered cleaned.....	35

Openings other than leaks in the drainage system were found in 23 places and same were ordered closed by the department.

Three hundred and seventy-five bathtubs and washtrays were inspected.

Sewage was found running upon the surface of the ground in 14 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 6,281 calls and to write 531 letters.

Four hundred and forty-one complaints have been investigated.

In 392 cases the inspectors have been able to give relief, and in other cases it was found that no cause existed or that same was beyond the control of the department.

Eighty-nine complaints were made against the scavenger service; in each case the proper parties were notified and relief afforded.

Thirty-two persons were found throwing garbage in the back streets and were warned against the practice.

Private swill collectors have been warned 62 times to be neater in their work.

Thirty-eight dead animals have been properly disposed of.

One hundred and forty-three hens and small animals have been removed from cellars.

Seventy-four swine and cows have been discovered being kept within the sanitary limits of the city without licenses. The same were ordered removed or licenses procured.

Nine notices have been prepared and served and proper returns made.

Ninety-five catch basins or street cesspools have been inspected, and 27 have been flushed or repaired by order of this department.

A sanitary inspection has been made of 150 bakeshops and 114 stores, and 20 bakeshops have been ordered cleaned. Theatres have been inspected 16 times, circuses 2, and sausage factories 25 times.

Ten shoe factories were inspected.

The dumps have been inspected 65 times; found insanitary 18 times. One hundred and sixty-one nuisances not otherwise classified have been abated through the efforts of this department.

Permits to the number of 1,708 have been granted for the burial and 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 about 300 other towns and cities, to local physicians, etc.

Weekly reports of contagious diseases have been sent to the State Board of Health at Concord, the Marine Hospital service at Washington, D. C., and to the superintendent of schools, and the city librarian. Samples of water, oysters, and ice cream were sent to the state laboratory for analysis.

Contagious and infectious diseases have been reported as follows: Measles, 390; diphtheria, 138; typhoid fever, 12; scarlet fever, 102; smallpox, 44; varioloid, 1; poliomyelitis, 18; cerebro-spinal meningitis, 2; total, 707.

In some cases disinfectants were being used and the inspectors ordered their use in other cases. At most of these places instructions were given as to their use, and in many cases the department furnished the disinfectants.

In some cases patients were found well isolated, and in other cases inspectors were obliged to order isolation, and in all cases to give instructions as to the steps to be taken.

Houses were watched to see that the rules of isolation were complied with and several funerals were attended to prevent a too public observance of the same.

Two thousand and ninety rooms where diseases had existed were fumigated by the inspectors; 395 of these were for tuberculosis.

Respectfully submitted,

JOHN F. LOONEY,

WILLIAM B. BLAKE,

JOSEPH X. DUVAL,

*Sanitary Inspectors.*



**REPORT OF THE ENGINEER'S DEPARTMENT.**



# REPORT OF ENGINEER'S DEPARTMENT.

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MANCHESTER, N. H., December 31, 1913.

*To the Honorable Mayor and City Councils:*

GENTLEMEN—The thirty-fifth annual report of the engineer's department is herewith submitted, showing the expenditures and operations for the year ending December 31, 1913.

### ORGANIZATION.

SAMUEL J. LORD, *Engineer.*  
 GEORGE W. WALES, *First Assistant.*  
 HARRIE M. YOUNG, *Chief Clerk.*

Assistants: Alfred T. Dodge, instrument man; Henry A. Worthen, instrument man; Edson W. Keith, instrument man; Harold M. Haskell, draughtsman; Lawrence A. O'Connor, rodman; Horace C. Wyman, rodman (from August 25); Frank D. Carr, rodman.

### FINANCIAL.

#### BOSTON & MAINE RAILROAD.

1913.		
Mar.	5. To freight on 2 cases of maps from Boston..	\$1.11
Oct.	23. To freight on 1 case small maps from Boston	.36

#### BISSON & JODOIN.

1913.		
Sept.	11. To repairing fender on Federal truck, 4½ hours @ 50c.....	\$2.25

#### JOHN B. CLARKE CO.

1913.		
May	10. To printing 500 cost cards both sides, Form 1	\$3.50
Sept.	3. To printing 300 annual reports, engineer's department, 68 pages and cover @60c..	41.40

#### ALFRED T. DODGE.

1913.		
Feb.	20. To cash paid for express on transit to Boston	\$0.50

## FARBELL BROTHERS.

1913.			
Sept.	17.	To 1 ft. cord .....	\$0.28
		1 swing joint .....	.35
		2 fuse plugs .....	.10
		labor 2 hours @ 60c.....	1.20
			<hr/>
			\$1.93

## FINNEY UPHOLSTERING &amp; WINDOW CLEANING COMPANY.

1913.			
Mar.	11.	To re-caning 2 stool seats.....	\$2.00

## JULIEN P. FBIEZ.

1913.			
June	27.	To 1 year's supply, Form 1015-E sunshine, rain and wind velocity record sheets..	\$5.25

## FRANK A. GAY.

1912.			
Oct.	3.	To labor setting batters, Carpen- ter Library .....	\$4.00
	4.	labor setting batters, Carpen- ter Library .....	2.50
	18.	labor setting batters, Carpen- ter Library .....	4.00
	19.	labor setting batters, Carpen- ter Library .....	1.00
			<hr/>
			\$11.50

## W. P. GOODMAN.

1913.			
Sept.	18.	To 1 box clasp envelopes No. 65 (250).....	\$2.19

## MANCHESTER AUTO GARAGE.

1913.			
May	1.	To exchange on radiator for Fed- eral truck .....	\$25.00
		freight going and return.....	1.10
			<hr/>
			\$26.10

## MANCHESTER COAL &amp; ICE COMPANY.

1913.			
Oct.	1.	To 1680 lbs. ice furnished at engineer's office during season 1913, @ 30c cwt.....	\$5.04

## MANCHESTER HARDWARE COMPANY.

1913.			
Mar.	21.	To 4 dry batteries @ 25c.....	\$1.00
July	24.	To 2 plumb bob lines.....	.20

## ENGINEER'S DEPARTMENT.

503

## MANCHESTER NICKEL PLATING COMPANY.

1913.

Sept. 6.	To nickel plating one straight edge.....	\$0.75
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## MANCHESTER TRACTION, LIGHT &amp; POWER COMPANY.

1913.

July 24.	To labor and material repairing electric fan	\$4.95
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## CHARLES F. MCCARTHY.

1913.

Jan. 17.	To lettering 2 street signs.....	\$0.60
	lettering 1 street sign .....	.30
		<hr/>
		\$0.90
Mar. 15.	To lettering 26 street signboards @ 30c....	7.80
May 7.	To painting 24 street signs @ 30c each....	7.20
Oct. 8.	To 1 sign, "Walnut St.".....	.30
Dec. 20.	To lettering 3 street signs @ 35c.....	1.05

## NEW ENGLAND TELEPHONE &amp; TELEGRAPH COMPANY.

1913.

Jan. 25.	To exchange service for 12 months ending Dec. 31, 1913 (Tel. No. 315) .....	\$30.00
	To tolls charged at engineer's department office:	
	Nov. 25 Suncook 24-2..	\$0.10
	23 Concord 8322..	.10
	Dec. 9 Goffstown 23..	.10
	16 Concord 248...	.10
		<hr/>
		.40
		<hr/>
		\$30.40

## EDWARD N. PEARSON, SECRETARY OF STATE.

1913.

Jan. 8.	To registration of one-ton Feder- al truck, No. 355, for the year 1913 .....	\$10.00
	Chauffeur's license (H. A. Worthen) for the year 1913	1.00
		<hr/>
		\$11.00

## THE FREDERICK POST COMPANY.

1913.

April 19.	To 1 50-yard roll No. 184 36" rapid blue print paper .....	\$2.00
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E. G. SOLTMANN.

1913.

Jan.	11.	To 1 50-yard roll 36" blue print paper .....	\$3.95	
		express prepaid .....	.55	
				\$4.50
Feb.	8.	To 1 50-yard roll 36" blue print paper .....	\$3.95	
		express prepaid .....	.65	
				\$4.60
	26.	To 1 50-yard roll 36" blue print paper .....	\$3.95	
		express prepaid .....	.55	
Mar.	14.	To 2 50-yard rolls 36" blue print paper .....	7.90	
		express prepaid .....	.65	
				\$13.05
April	9.	To 100 sheets Victoria detail paper, 26x39½ .....	\$4.75	
		250 sheets Victoria detail paper, 22½x30½ .....	7.50	
		3 100-foot Chesterman tapes @ \$8.50 .....	25.50	
		3 dozen Kohinoor pencils @ 85c .....	2.55	
		2 dozen Kohinoor point protectors @ 50c.....	1.00	
		2 Crystalline triangles @ \$2.00 .....	4.00	
		2 dozen point protectors with rubber @ 50c.....	1.00	
		6 bottles ink @ 20c.....	1.20	
		1 bottle Phenix oil.....	.15	
		express prepaid .....	1.47	
				\$49.12
July	11.	To 1 roll 36" blue print paper...	\$3.95	
		express prepaid .....	.55	
				\$4.50
	29.	To 1 50-yard roll blue print paper express prepaid .....	\$3.95	
			.55	
Aug.	8.	To 1 50-yard roll blue print paper express prepaid .....	3.95	
			.55	
				\$9.00
Oct.	6.	To 1 roll blue print paper.....	\$3.95	
		1 dozen Verdenette erasers...	.50	
		½ dozen pencil sharpeners...	.72	
		3 bottles Higgins carmine ink .....	.60	
				\$5.77

ENGINEER'S DEPARTMENT.

Dec.	5.	To 1 roll 36" blue print paper...	\$3.95	
		express prepaid .....	.55	
			<hr/>	\$4.50

WILLIAM C. SPEAR.

1913.				
Jan.	25.	To rental of one-ton Federal truck as per contract dated April 27, 1912, for the month of January, 1913.....		\$75.00
Feb.	22.	To rental of one-ton Federal truck as per contract dated April 27, 1912, for the month of February, 1913.....		75.00
Mar.	22.	To rental of one-ton Federal truck as per agreement dated April 27, 1912, for the month of March, 1913.....		75.00
April	26.	To rental of one-ton Federal truck as per agreement dated April 27, 1912, for the month of April, 1913.....		75.00
May	24.	To 1 one-ton Federal truck as per contract dated April 27, 1912, between the city of Manchester, N. H., of the first part, signed by Edward C. Smith, mayor, and William C. Spear, of the second part, signed by him.....	\$1,875.00	
		By credits May 25, 1912..	\$75.00	
		June 22, 1912..	75.00	
		July 27, 1912..	75.00	
		Aug. 24, 1912..	75.00	
		Sept. 21, 1912..	75.00	
		Oct. 26, 1912..	75.00	
		Nov. 23, 1912..	75.00	
		Dec. 21, 1912..	75.00	
		Jan. 25, 1913..	75.00	
		Feb. 22, 1913..	75.00	
		Mar. 22, 1913..	75.00	
		Apr. 26, 1913..	75.00	
			<hr/>	\$900.00
		Balance due .....	<hr/>	\$975.00

WILLIAM SUTHERLAND.

1913.				
April	25.	To 1 copy Rand-McNally's atlas	\$4.50	
		By 1 old Rand-McNally atlas returned .....	2.00	
			<hr/>	\$2.50

## TEMPLE &amp; FARRINGTON COMPANY.

1913.		
May	21. To binding record of Committee on Streets for the year 1911	\$0.85
	binding record of Committee on Streets for the year 1912	.85
	binding record of Committee on Sewers and Drains for the year 1912.....	.85
		<hr/>
		\$2.55

## JOHN B. VARICK COMPANY.

1913.		
Mar.	8. To 1 3-cornered file, 4".....	\$0.05
	21. 1 prick punch .....	.15
	4 solid punches @ 20c.....	.80
	27. 1 No. 4 mallet .....	.20
	1 solid punch .....	.25
		<hr/>
		\$1.45
May	24. To 1½" nickel plated figures as follows:	
	8 dozen figure 1	
	10 dozen figure 2	
	10 dozen figure 3	
	6 dozen figure 4	
	6 dozen figure 5	
	6 dozen figure 6	
	8 dozen figure 7	
	6 dozen figure 8	
	60 dozen, 720 figures @ 3c each.....	\$21.60
July	2. To 1 3-gallon bottle for water cooler.....	.75
Aug.	12. To 10 lbs. pointed rivets @ 10c.....	1.00
	14. To 1 gross Faber triangular chalk blue .....	\$4.80
	By 10% discount .....	.48
		<hr/>
		\$4.32
Sept.	3. To 1 horn reed .....	.25
		<hr/>
		\$4.57
	19. To: 4 ignitor batteries @ 18c....	\$0.72
Oct.	14. To 10 lbs. nails @ 3c.....	.30
		<hr/>
		\$1.02
Nov.	21. To 4 dozen 1½" door numbers @ 40c dozen .....	\$1.60
	22. To 1 auto horn .....	4.00
Dec.	16. To 1 spool silk line, 25 yards...	.30
		<hr/>
		\$5.90
	14. To 6 brass plumb bobs @ \$1.00 each.....	6.00



## WALKER LITHOGRAPH &amp; PUBLISHING COMPANY.

1913.

Dev.	20.	To city of Manchester, N. H., map	\$916.53	
		By amount paid on account in December, 1912 .....	481.66	
				<hr/>
		To balance due, final payment in full to date .....	\$434.87	
Oct.	21.	To putting map of city of Man- chester, N. H., on stone and making 2,000 copies of the same .....	58.00	
		copyrighting map .....	1.03	
				<hr/>
				\$493.90

## THE WEST SIDE LUMBER COMPANY.

1913.

May	13.	To 500 3-ft. grade stakes @ 3c.....		\$15.00
Dec.	20.	To 500 3-ft. grade stakes @ 3c.....		15.00
Aug.	21.	To 2,000 3-ft. grade stakes @ 3c.....		60.00

## J. ARTHUR WILLIAMS.

1913.

June	30.	To printing 500 hydrant report blanks .....	\$2.00	
		100 envelopes for return of same .....	.50	
				<hr/>
				\$2.50

## SAMUEL J. LORD.

1913.

Dec.	20.	To portion of salary charged to engineer's department for the year 1913.....		\$1,400.00
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## GEORGE W. WALES.

1913.

Dec.	20.	To 318 days' services @ \$4.20 per day.....		\$1,335.60
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## HARRIE M. YOUNG.

1913.

Dec.	20.	To 243 days, 2½ hours' services @ \$3.90....		\$949.00
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## ALFRED T. DODGE.

1913.

Dec.	20.	To 317 days, 3½ hours' services @ \$3.45 per day.....	\$1,095.26	
		10 hours' extra time @ 46c....	4.60	
				<hr/>
				\$1,100.36

## HENRY A. WORTHEN.

1913.

Dec. 20.	To 309 days' services @ \$3.00 per day .....	\$927.00	
	4½ hours' extra time @ 40c per hour .....	1.80	
		<hr/>	\$928.80

## HAROLD M. HASKELL.

1913.

Dec. 20.	To 318 days' services @ \$3.30 per day .....	\$1,049.40	
	3 days, 4 hours' extra time @ \$3.30 .....	11.66	
	9½ hours' extra time at 44c per hour .....	8.14	
		<hr/>	\$1,069.20

## LAWRENCE A. O'CONNOR.

1913.

Dec. 20.	To 281 days, 3½ hours' services @ \$1.95 per day .....		\$548.86
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## EDSON W. KEITH.

1913.

Dec. 20.	To 317 days' services at \$2.75 per day .....	\$871.75	
	1 hour's extra time @ 37c....	.37	
		<hr/>	\$872.12

## HORACE C. WYMAN.

1913.

Dec. 20.	To 107 days' services @ \$2.25 per day .....	\$240.75	
	1 hour's extra time @ 30c....	.30	
		<hr/>	\$241.05

## L. PRESCOTT COX.

1913.

Sept. 27.	To 1 day's services @ \$2.00 (Aug. 27, 1913)		\$2.00
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## FRANK D. CARR.

1913.

Dec. 20.	To 108 days' services @ \$1.25 per day .....	\$135.00	
	183 days' services @ \$1.00 per day .....	207.00	
	3½ hours' extra time @ 13½c	.47	
		<hr/>	\$342.47

## CLARENCE PIERCE.

1913.

July 26. To 19 days' services @ \$2.00.....	\$38.00
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## SUMMARY.

Appropriation to the engineer's department for the year 1913.....	\$11,010.25
Expenses of the engineer's department for the year 1913.....	\$11,001.46
Balance unexpended .....	8.79

## ORDERS.

Board of mayor and aldermen (meetings) .....	5
Board of examiners of plumbers (meetings) .....	9
Committee on streets (meetings) .....	7
Committee on sewers and drains (meetings) .....	5
Petitions for new highways .....	47
Petitions for highway grade .....	60
Petitions for new sewers .....	24
Table No. 28 (highway bounds) .....	37
Table No. 29 (levels for profile) .....	74
Table No. 29 (plans and profiles) .....	74
Table No. 30 (miscellaneous orders, field) .....	170
Table No. 30 (miscellaneous orders, office) .....	14
Table No. 31 (street signs, orders) .....	45
Table No. 32 (street numbers, orders) .....	428
Table No. 33 (cemetery orders, field) .....	8
Table No. 34 (Board of Public Works, orders) .....	236
	<hr/>
	1,243

## FIELD WORK.

Levels for profile for establishing grades (length in feet)	292,720
Levels in Pine Grove Cemetery (length in feet).....	1,240
Other levels (length in feet).....	5,160
	<hr/>
Total length of levels in feet.....	299,120
Surveys of streets and street lines (length in feet)....	45,820
Surveys in Pine Grove Cemetery (length in feet).....	2,460
Surveys for street numbers (length in feet).....	8,600
Surveys, miscellaneous (length in feet).....	16,240
	<hr/>
Total length of surveys in feet.....	73,120

Street lines marked on ground (length in feet).....	14,190
Lot and avenue lines, Pine Grove Cemetery (length in ft.)	4,106
Lines for gutters (length in feet).....	21,860
Lines for curbs (length in feet).....	38,920
Lines for sewers (length in feet).....	10,800
Lines for building streets (length in feet).....	32,900
Other lines (length in feet).....	4,560
<hr/>	
Total length of lines marked on ground.....	127,330
Grades set for sidewalks (length in feet).....	18,240
Grades set for gutters (length in feet).....	21,860
Grades set for curbs ((length in feet).....	38,920
Grades set for sewers (length in feet).....	10,800
Grades set for building streets (length in feet).....	32,900
Grades set for paving (length in feet).....	4,200
Grades set for Pine Grove Cemetery (length in feet)..	700
Grades set for other purposes (length in feet).....	960
<hr/>	
Total length in feet of grades set.....	128,780
Number of new lots staked out in Pine Grove Cemetery	111
Highway bounds set .....	18
Highway bounds reset .....	14
Highway bounds removed .....	5
<hr/>	
	37

## BATTERS SET.

Mammoth Road, culvert at Cemetery brook.  
Stark Park, fence around burial lot.

## SEWER PLANS AND PROFILES.

Alfred, Hanover to Amherst.  
Allen, South Main to Boynton. ..  
Baker, Elm to Willow.  
Beech, Cedar to Spruce.  
Bremer, Alsace to Boutwell.  
Brock, Milford, northerly.  
Burgess, Lowell to East High.  
Candia Road, Revere avenue to Highland Park avenue.  
Congress, Amory southerly.  
Dix, Maple to Lincoln.  
Everett, West Clarke to Thayer.  
Grove, Elm to Willow.  
Hanover, Merrimack to Grant.  
Harvard, Lincoln to Wilson.  
High, East, Highland to Burgess.

Labrecque south back, Coolidge avenue west back to Rimmon.  
 Laval, Kelley to north of Bremer.  
 Lincoln, Silver to Prescott.  
 Mammoth road, Lake avenue to Hanover.  
 Maple, Auburn to Summer.  
 Maple, Blodget to Sagamore.  
 Revere avenue, Candia road to Longwood avenue.  
 Rimmon, Bremer to Labrecque.  
 Spruce, Beech to Maple.  
 Taylor, Howe to Cilley road.  
 Union, Summer to Grove.  
 Wayland avenue, Mammoth road to Revere avenue.  
 Willow, Merrill to first angle south of Hayward.  
 Willow, South, Shasta to Martin.  
 Total sewer plans and profiles, 29.

## NUMBERING PLANS.

Brock, Charleston avenue to Mast.  
 Connecticut avenue, Hanover to New York avenue.  
 Grant, Hanover northerly.  
 Hilton, Hanover to north of Amherst.  
 Maple, South, Cilley road to Willow.  
 Maryland avenue, Hanover to north of New York avenue.  
 Mason, Coolidge avenue to Youville. Two plans.  
 Milford place, Milford southerly.  
 Mystic, Beech to Manchester & Lawrence Railroad.  
 Ohio avenue, Hanover to Bridge.  
 Reed, Kelley to north of Bremer. Two plans.  
 Rhode Island avenue, Hanover to Bridge.  
 Willow, Auburn to Baker. Three plans.  
 Willow, South, Baker to Loring. Three plans.  
 Youville, Bremer to Dexter. Two plans.  
 Total numbering plans, 22.

## MISCELLANEOUS PLANS.

Beech, Lawrence, Cheney, Enfield, Mitchell, Dorchester, Marguerite and Purchase streets, and Home, Rose, Napoleon and Alphonse avenues, "Home Park."

Candia road, Holt avenue and Brennan and Page streets, land of D. F. Brennan.

Detail plan of fence posts at Stark burial lot.

Detail plan of standard cesspool.

Detail plan of 22" D frame inlet.

Hackett Hill road, Manchester-Hooksett town line southerly, land of L. H. Dunbar.

Merrimack river, borings at proposed bridge, Byron street to Woodbury street.

Pine to Hall, Spruce to Valley, Cemetery brook and adjacent lots. Two plans.

Piscataquog river and Manchester and North Weare Railroad, land of J. H. Tattersall. Two plans.

Stark park, design for fence around Stark burial lot.

Villa boulevard, and Villa, Manning, Hall, Belmont, Taylor and Cypress streets, land of the America Land Co. "Villa Nova."

Total miscellaneous plans, 13.

#### WORKING PLANS.

Adams, North, Carpenter to Trenton, profile.

Amherst, Highland to Hilton, profile.

Appleton, Elm to Chestnut, profile.

Appleton, West, Elm westerly, profile.

Appleton, West, south back, Elm westerly, profile.

Batchelder avenue, Hayward to Harvard, profile.

Belmont, Hanover to Amherst, profile.

Boutwell, Bremer to Rock Rimmon, profile.

Brook, Beech to Maple, profile.

Buzzell, East High to Bridge, profile.

Calef road, Elmwood avenue to south of cemetery gate, two profiles.

Candia road, Londonderry turnpike westerly, profile.

Cedar south back, Chestnut to Pine, profile.

Cemetery brook, Elm to east of Willow, cross section.

Central, West, Elm to Franklin, profile.

Chestnut, Webster to Appleton, profile.

Clarke, Elm to Chestnut, profile.

Conant, Montgomery to Wason, profile.

Concord, Beech to Ash, profile.

Concord, Beech to Ash, profile.

Delaware avenue, Hanover to Bridge, two profiles.

Elm, Clarke to Carpenter, profile.

Forest, Sylvester to Mast, profile.

Front, easterly to Merrimack river, sewer profile.

Granite, Elm to Franklin, profile.

Green south back, Pine east back to Beech, profile.

Grove, Wilson to Hall, profile.

Grove south back, Pine east back to Beech, profile.

Grove south back, Wilson to east of Hall, profile.

Hall, Hanover to Manchester, profile.

Hanover, Hall to Beacon, profile.

Hayward, Jewett to Porter, profile.

Head, Mast to McClintock, profile.

Hevey, Mason to Coolidge avenue, profile.

Highland avenue, Wilkins to Mast, profile.  
Hilton, Hanover to north of Amherst, profile.  
Holly avenue, Wilson to Cypress, profile.  
Laurel avenue, Laurel to Central, profile.  
Laval east back, Bremer northerly, profile.  
Liberty, North to Webster, profile.  
Liberty east back, north to Webster, profile.  
London, Rhode Island avenue to Page street, profile.  
Liberty east back, north to Webster, profile.  
London, Rhode Island avenue to Page street, profile.  
Main, Putnam to Amory, profile.  
Main west back, Wilton to Schuyler, profile.  
Main west back, Sullivan to Putnam, profile.  
Manchester, Beech to Maple, profile.  
Manning, Wilson to Taylor, profile.  
Massabesic, Hayes avenue to Hospital avenue, profile.  
Mast road, Wilkins to Shirley Hill road, profile.  
Merrimack river, proposed bridge, Byron to Woodbury, two profiles.  
Merrimack river at proposed bridge, profile of borings.  
Merrimack river at proposed bridge, cross section of borings.  
Milton, Hanover to Amherst, profile.  
Morey, west of Wilson to Hall, profile.  
Mystic, Calef road to Beech, two profiles.  
New York avenue, Connecticut avenue to Page, profile.  
North, Pine to Union, profile.  
Orange, Russell to Linden, profile.  
Paris, Page to Connecticut avenue, profile.  
Pearl, Pine to Union, profile.  
Pinard, proposed bridge over Piscataquog river, profile.  
Pine, Cedar to Auburn, profile.  
Pine, North to Webster, profile.  
Pine east back, North to Webster, profile.  
Portsmouth avenue, Lake avenue to C. & P. Railroad.  
Railroad, Douglas to Whittemore avenue, profile.  
Reed, Bremer to Dexter, two profiles.  
Rhode Island avenue, Hanover to Bridge, profile.  
Riley avenue, Hayward to Young, profile.  
Rosedale avenue, Calef road to Elm, profile.  
Schuyler south back, Main West back to Notre Dame Avenue, profile.  
Second, Granite to Walker, profile.  
Stevens, Baker southerly, profile.  
Union east back, North to Webster, profile.  
Wallace, Winter south and west, profile.  
William, Mast to Milford, profile.

Total working plans, 81.

## TRACINGS.

Commercial Union Telegraph Company, showing location of poles, one tracing.

Manchester Traction, Light & Power Company, showing location of poles, one hundred and five tracings.

Merrimack river, proposed bridge, Byron to Woodbury, location and profile, two tracings.

Merrimack river at proposed bridge, profile of borings.

Merrimack river at proposed bridge, cross sections of borings.

New England Telephone and Telegraph Company, showing location of poles, eighty-four tracings.

New England Telephone and Telegraph Company, showing location of underground conduits, three tracings.

Pinard street, location of proposed bridge over Piscataquog river, showing profile.

Pine Grove Cemetery, north part of Spruce lawn.

Total tracings, 199.

## BLUE PRINTS.

Beech, South, plan of Highland park.

City Farm, east of Mammoth road, two prints.

City Farm, west of Mammoth road, two prints.

Commercial Union Telegraph Company, showing location of poles, two prints.

Detail plan of fence posts at Stark burial lot, two prints.

Detail plan of standard cesspool, three prints.

Detail plan of 22" D frame inlet, seven prints.

Manchester Traction, Light & Power Company, showing location of poles, two hundred and ten prints.

Merrimack river, proposed bridge, Byron to Woodbury, location and profile, five prints.

Merrimack river at proposed bridge, borings.

New England Telephone and Telegraph Company, showing location of poles, one hundred and sixty-eight prints.

New England Telephone and Telegraph Company, showing location of underground conduits, six prints.

Pinard street, location of proposed bridge over Piscataquog river, showing profile, six prints.

Pine Grove Cemetery, Spence lawn, two prints.

Stark park, design for fence around Stark burial lot, two prints.

Total blue prints, 420.

## SUMMARY.

Plans and profiles (sewers) .....	29
Numbering plans .....	22



Miscellaneous plans .....	13
Working plans .....	81
Tracings .....	199
Blue prints .....	420
Assessment book, sheets .....	3
Section plans .....	5
	<hr/>
	772

Four tracings showing city sewers have been brought up to date.  
 Maps brought up to date, five.

Plans brought up to date, thirty-eight.

Plans made for establishing grade on streets not laid out, 25,860 feet.

Plans made for establishing grade on laid-out streets, 41,080 feet.

Total, 66,940.

#### 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 to 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, and 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 to each one by the city clerk. A summarized statement of the ground covered to January 1, 1914, follows, to wit:

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	
Paid during 1900.....	2	
Not connected.....	1	
Paid during 1901.....	2	
Granted free during 1901.....	1	
Paid during 1902.....	2	
Paid during 1903.....	3	
Paid during 1904.....	4	

Paid during 1906.....	1	
Paid during 1907.....	3	
Granted free during 1907.....	1	
Paid during 1908.....	2	
Paid during 1909.....	2	
Granted free during 1909.....	1	
Paid during 1910.....	1	
Paid during 1912.....	6	
Paid during 1913.....	7	
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 paid, no record.....	1	
Licenses taken out, not paid.....	17	
Not heard from.....	378	
Total number not settled January 1,		
1914 .....	—	468
		<hr/>
	1,017	1,017
Number of licenses granted new sewer enterers during		
1913 .....		182
Number of free licenses granted sewer enterers during		
1913 .....		5
		<hr/>
Total number of licenses granted during 1913.....		187
Amount of money recorded as collected from new sewer		
enterers during 1913.....		\$2,737.85
(All moneys are collected by the city clerk.)		

STREET NUMBERS.

Figures on hand January 1, 1913.....	665	
Figures ordered during 1913.....	768	
Letters on hand January 1, 1913.....	49	
Figures used during 1913.....		1,114
Figures on hand January 1, 1914.....		319
Letters used during 1913.....		7
Letters on hand January 1, 1914.....		42
	<hr/>	<hr/>
	1,482	1,482
	<hr/>	<hr/>
Numbers assigned during 1913 .....		390
Numbers replaced during 1913 .....		28
Numbers changed during 1913 .....		10
		<hr/>

(The expense of street numbers is charged to the appropriation for the engineer's department.)

COAL TAR AND GRANITE BLOCK PAVING.

Tables Nos. 1, 2, 3, 4, 5, 6, and 7 give the location, number of square yards, price per square yard, total cost and date when measured of all coal tar concrete laid during the year as follows: Table No. 1, sidewalks (new); Table No. 2, sidewalks (repairs); Table No. 3, street crossings (new); Table No. 4, street crossings (repairs); Table No. 5, driveways (new); Table No. 6, street paving (new); Table No. 7, street paving (repairs); Table No. 8, summary of tables Nos. 1, 2, 3, 4, 5, 6, and 7.

TABLE No. 1.  
 SIDEWALKS (New).—ROBIE CONSOLIDATED CONCRETE CO., CONTRACTORS.  
 Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Amory, s. s.	Main westerly.....	258.18	\$0.50	\$129.09	Oct. 17, 1913
Main, w. s.	Amory, southerly.....	131.98	0.50	65.99	July 8, 1913
Bridge, s. s.	Bridge place to Chestnut.....	94.52	0.60	56.71	Aug. 18, 1913
Cypress, e. s.	*Hayward to Prout park.....	29.62	0.50	14.81	July 8, 1913
Lincoln	Manchester, south east cor.....	604.44	0.60	362.66	Aug. 18, 1913
Prout park	Cypress to south east cor.....				
		1118.74		\$629.26	

\*1/2 paid by abuttor

TABLE No. 2.  
SIDEWALKS (Repairs).—ROBIE CONSOLIDATED CONCRETE COMPANY, CONTRACTORS.  
Material, Tar Concrete.

STREET.	LOCATION.	Square Yards.	Per Sq. Yard.	Total Cost.	Measured.
Adams	Notre Dame Avenue, southwest corner.....	15.416	.50	\$7.70	Dec. 10, 1912
Bridge, north side.....	Chestnut, westerly.....	132.67	.50	66.33	Oct. 17, 1913
Central, north side.....	Elm to west of Chestnut.....	445.00	.50	222.50	Aug. 18, 1913
Central, W., north side.....	Elm, westerly.....	20.09	.50	10.05	Dec. 10, 1912
Chestnut, east side.....	At Monadnock Lane.....	13.98	.50	6.99	Dec. 10, 1912
Concord, north side.....	Pine, westerly.....	24.76	.50	7.42	Dec. 10, 1912
Concord, north side.....	Union, northeast corner.....	1.56	.50	.78	May 31, 1913
Concord, north side.....	Union, northwest corner.....	.44	.50	.22	May 31, 1913
Concord, north side.....	Union, southeast corner.....	.42	.50	.21	May 31, 1913
Elm, west side.....	Winter place, southerly.....	23.22	.50	11.61	Aug. 1, 1912
Elm.....	Winter place, southwest corner.....	25.34	.50	7.60	Aug. 1, 1912
Elm.....	Prospect, northeast corner.....	18.57	.50	9.28	Dec. 10, 1912
Elm.....	Harrison, northeast corner.....	7.16	.50	3.58	Dec. 10, 1912
Elm.....	Harrison, southeast corner.....	7.50	.50	3.75	Dec. 10, 1912
Granite, north side.....	At City Yard.....	5.78	.50	2.89	July 11, 1913
Lake Avenue.....	Milton, northeast corner.....	106.11	.50	53.05	Dec. 4, 1913
Lowell, south side.....	Nashua, easterly.....	17.47	.50	8.73	Dec. 4, 1913
Lowell.....	Nashua, westerly.....		.50		Dec. 4, 1913
Nashua.....	Lowell, northerly.....	124.66	.50	62.33	Dec. 4, 1913
Main, west side.....	Wayne, southeast corner.....	1.16	.50	0.58	Dec. 10, 1912
Manchester, south side.....	Avory, southerly.....	2.66	.75	2.00	Dec. 4, 1913
McGregor, east side.....	School, lane, easterly.....	15.47	.50	7.74	Dec. 10, 1912
Mechanic.....	Opposite Wayne.....	3.888	.50	1.94	Dec. 10, 1912
Orange, south side.....	Elm, southwest corner.....	20.41	.50	10.20	Aug. 1, 1912
Orange, south side.....	Pine, westerly.....	75.22	.50	37.61	Oct. 17, 1913
Orange, north side.....	Pine, easterly.....	43.55	.50	21.78	Oct. 17, 1913
Orange, north side.....	Pine, easterly.....	102.00	.50	51.00	Oct. 17, 1913
Pine, east side.....	Concord to Seneca lane.....	23.12	.50	11.56	Dec. 10, 1912
Pine, west side.....	Concord to Seneca lane.....	89.74	.50	44.87	Dec. 10, 1912
Pine, west side.....	Seneca to Lowell.....	27.42	.50	13.71	Dec. 10, 1912
Pine, east side.....	Orange, southerly.....	24.40	.50	12.20	Oct. 17, 1913
Pine, west side.....	Orange, southerly.....	19.44	.50	9.72	Oct. 17, 1913
Pine, east side.....	Orange, northerly.....	37.33	.50	18.66	Oct. 17, 1913
Second.....	At No. 213.....	38.65	.50	19.32	Dec. 10, 1912

TABLE No. 2.—Continued.

STREET.	LOCATION.	Square Yards.	Per Sq. Yard.	Total Cost.	Measured.
Tremont common.....	Brook, northeast corner .....	21.11	.35	7.38	Dec. 10, 1912
Walnut .....	Brook, northwest corner .....	19.44	.50	9.72	Dec. 10, 1912
Walnut .....	Blodget, northeast corner .....	10.67	.50	5.34	Dec. 10, 1912
Walnut .....	Blodget, northwest corner .....	5.93	.50	2.96	Dec. 10, 1912
Walnut .....	Blodget, southeast corner .....	5.36	.50	2.68	Dec. 10, 1912
Walnut .....	Blodget, southwest corner .....	7.77	.50	3.88	Dec. 10, 1912
Walnut .....	Main west back, westerly .....	11.05	.50	5.52	Dec. 10, 1912
Wayne, north side.....		43.05	.50	21.52	Dec. 10, 1912
		1,635.217		\$804.99	

\*½ paid by abuttor.

TABLE No. 3.  
STREET CROSSINGS (NEW)—ROBIE CONSOLIDATED CONCRETE COMPANY, CONTRACTORS  
Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Beech .....	Harrison, south side.....	27.55	\$ .75	\$20.60	Dec. 10, 1912
Essex .....	Amory, south side.....	29.33	.75	22.00	Aug. 1, 1912
Hampshire lane.....	Mechanic, south side.....	17.88	.50	8.94	Aug. 1, 1912
Hevey, east back.....	Wayne, north side.....	12.44	.75	9.33	Aug. 1, 1912
		87.20		\$60.87	

TABLE No. 4.

## STREET CROSSINGS (Repairs).

ROBIE CONSOLIDATED CONCRETE CO., CONTRACTORS.

Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total Cost.	Measured.
Hampshire lane	Water, south side.....	12 44	\$ .35	\$ 4.35	Aug. 1, 1912
Kidder court....	Elm, west side.....	34.44	.35	12.00	Aug. 1, 1912
Lowell.....	Pine, east side.....	6.22	.50	3.11	Dec. 10, 1912
Lowell.....	Pine, west side.....	9.33	.50	4.66	Dec. 10, 1912
Walnut, east bk	Lowell, north side.....	19.55	.50	9.77	Aug. 1, 1912
		81.98		\$33.94	

TABLE No. 5.

## DRIVEWAYS (New).

ROBIE CONSOLIDATED CONCRETE CO., CONTRACTORS.

Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Granite ...	At W.C. Spear's	30.38	\$0.75	\$22.78	July 11, 1913
		30.38		\$22.78	

TABLE No. 6.

## STREET PAVING (New).

ROBIE CONSOLIDATED CONCRETE CO., CONTRACTORS.

Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Main, east side	McGregor to south of Putnam.....	410.55	\$1.00	\$410.55	Oct. 17, 1913
Main, west side	Putnam to Sullivan.....	360.00	1.00	360.00	" 17, 1913
		770.55		\$770.55	

TABLE No 7.  
STREET PAVING (Repairs).—ROBIE CONSOLIDATED CONCRETE COMPANY, CONTRACTORS.  
Material, Tar Concrete.

STREET.	LOCATION.	Square Yards.	Per Sq. Yard.	Total Cost.	Measured.
Amherst	Elm to Vine	95.06	\$0.50	\$47.53	May 19, 1913
Amherst	At Nutfield lane	17.27	.35	6.04	Dec. 10, 1912
Amherst	At Vine	7.55	.35	2.64	Dec. 10, 1912
Amherst	Union to Beech	43.49	.50	21.74	June 2, 1913
Amoskeag	At west end of bridge	8.69	.35	3.04	Dec. 10, 1912
Amoskeag	West end of bridge, westerly	256.33	.50	128.16	June 20, 1913
Bridge, West	At east end of bridge	421.01	.35	149.80	Aug. 1, 1912
Central	Elm to Chestnut	50.56	.50	25.28	July 8, 1913
Chestnut	Merrimack to Derryfield lane	40.36	.50	20.18	Dec. 4, 1913
Chestnut	Merrimack to Concord	31.83	.25	11.14	Dec. 10, 1912
Chestnut	Merrimack to Manchester	29.02	.35	10.16	Dec. 10, 1912
Chestnut	Manchester to Hanover	74.34	.35	26.02	May 21, 1913
Chestnut	Hanover to Amherst	43.57	.50	21.78	May 21, 1913
Chestnut	Amherst to Concord	25.83	.50	12.91	May 20, 1913
Concord	Elm to Vine	46.19	.50	23.09	May 20, 1913
Concord	Elm to Vine	9.94	.35	3.47	Dec. 10, 1912
Concord	Elm to Nutfield lane	1.11	.50	.55	Dec. 10, 1912
Concord	Nutfield lane to Vine	20.30	.50	10.15	May 20, 1913
Concord	At Chestnut	32.54	.50	16.27	May 20, 1913
Concord	Bridge to Pearl	65.86	.50	32.93	May 20, 1913
Concord	At Chestnut	74.01	.50	37.00	May 20, 1913
Elm, east side	Pearl to Orange	7.84	.35	2.74	May 20, 1913
Elm, east side	Bridges to Kidder	136.25	.50	68.12	May 20, 1913
Elm, west side	At Kidder	37.60	.50	18.80	May 20, 1913
Elm, west side	At Sagamore	7.08	.50	3.54	Aug. 1, 1912
Elm	Turner to Main	222.24	.50	111.12	Dec. 10, 1912
Granite	Turner to Main	790.16	1.00	790.16	Dec. 10, 1913
Granite	Turner to Second	86.69	.50	43.34	June 9, 1913
Granite	Second to Main	17.76	.50	8.88	June 9, 1913
Hampshire lane	Market to Stark	8.25	.50	4.12	June 9, 1912
Hanover	Elm to Chestnut	54.12	.50	27.06	Aug. 1, 1912
Hanover	Elm to Chestnut	.666	.75	.50	Dec. 10, 1912
Hanover	Elm to Chestnut	1.00	.50	.50	July 8, 1913
Hanover	Chestnut to Pine	.89	.50	.44	July 8, 1913
Hanover	Union to Beech	52.33	.35	18.31	Dec. 10, 1912



Hanover	Union to Beech	255.63	.50	June 3, 1913
Lake avenue	Elm to Chestnut	34.76	.35	Dec. 10, 1912
Lake avenue	Elm to Chestnut	54.016	.50	Dec. 10, 1912
Lake avenue	Elm to Chestnut	320.00	.50	May 20, 1913
Lake avenue	Elm to Chestnut	86.00	.50	May 27, 1913
Lake avenue	Elm to Chestnut	135.29	.50	May 28, 1913
Lowell	Chestnut to Pine	60	.50	June 2, 1913
Main	At Chestnut	29.39	.50	June 6, 1913
Main	At Fire King engine house	214.36	.50	June 13, 1913
Main	Putnam to Wayne	242.96	.50	June 12, 1913
Main	At Wayne	15.972	2.00	Aug. 1, 1912
Main	Wayne to Marion	90.08	.50	June 12, 1913
Main, South	Granite to School	45.04	.50	Aug. 1, 1912
Main, South	Clinton to Parker	410.256	.35	Aug. 1, 1912
Main, South	At M. & N. W. R. R.	1.577	1.29	Aug. 1, 1912
Main, South	Granite to M. & N. W. R. R.	1.40	.50	Aug. 1, 1912
Main, South	Granite to School	616.30	.50	Dec. 10, 1912
Main, South	School to Ferry	35.70	.50	Dec. 10, 1912
Main, South	Ferry to Walker	16.72	8.31	June 10, 1913
Main, South	Walker to M. & N. W. R. R.	68.58	.50	June 10, 1913
Manchester	Elm to Chestnut	45.29	.50	June 10, 1913
Maple	Lake avenue to Merrimack	54.12	.50	Aug. 1, 1912
Maple	Lake avenue to Central	46.94	.35	Dec. 10, 1912
Maple	Central to Laurel	21.29	.50	June 6, 1913
Maple	Laurel to Merrimack	25.58	.50	June 6, 1913
Marion	Main to McGregor	53.92	.50	June 5, 1913
Merrimack	Elm to Chestnut	19.89	.50	June 12, 1913
Merrimack	Elm to Chestnut	41.94	.35	Dec. 10, 1912
Merrimack	Elm to Chestnut	128.06	.50	May 21, 1913
Merrimack	Beech to Maple	3.78	1.89	Dec. 4, 1913
Merrimack	Beech to Maple	14.06	.50	Dec. 10, 1912
Merrimack	Beech to Maple	30.77	7.03	Dec. 10, 1912
Merrimack	Union, easterly	292.99	10.77	Dec. 10, 1912
Merrimack, south back	Union, easterly	2.97	.50	June 5, 1913
Merrimack, West	Elm to Franklin	9.00	1.48	June 6, 1913
Monadnock lane	5lm to Franklin	36.28	3.15	Dec. 10, 1912
Monadnock lane	Chestnut, easterly	15.24	.35	June 6, 1913
Nuthfield lane	Chestnut, easterly	20.54	.35	Dec. 10, 1912
Pine	Hanover to Derryfield lane	241.95	1.00	Dec. 10, 1912
Pine	Spruce to Lake avenue	2.00	.35	Aug. 18, 1913
Pine	Lake Avenue to Lake avenue	8.88	.50	Dec. 10, 1912
Second	Lake Avenue to Central	1.33	4.44	June 3, 1913
Second	At north bridge	13.59	.66	June 2, 1913
Spruce, south back	Beech, westerly	7.81	6.79	June 11, 1913
Union	Lake Avenue to Laurel	120.60	3.90	June 11, 1913
Union	Lake Avenue to Central	96.97	.50	June 6, 1913
Union	Lake Avenue to Central	86.98	9.44	Dec. 10, 1912
Union	Lake Avenue to Central	129.82	43.49	June 3, 1913
			64.91	June 4, 1913

TABLE No. 7.—Concluded.

STREET.	LOCATION.	Square Yards.	Per Sq. Yard.	Total Cost.	Measured.
Union .....	Central to Laurel.	92.78	.50	46.39	June 3, 1913
Union .....	Laurel to Merrimack	30.63	.50	15.31	June 3, 1913
Union .....	Hanover to Amherst	29.18	.50	14.59	June 2, 1913
Union .....	Hanover to Amherst	14.30	.50	7.15	June 2, 1913
Union .....	Hanover to Lowell	23.15	.35	9.15	Dec. 10, 1912
Union .....	Hanover to Lowell	18.22	.50	9.11	Dec. 10, 1912
Union .....	Hanover to Amherst	10.20	.50	5.10	July 8, 1913
Union .....	Amherst to Concord	155.78	.50	77.89	May 31, 1913
Union .....	Amherst to Concord	25.25	.50	11.62	July 8, 1913
Union .....	Concord to Lowell	261.03	.50	130.51	May 28, 1913
Union .....	Concord to Lowell	175.57	.50	87.78	May 31, 1913
		7,764.907		\$4,237.68	

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

DESCRIPTION.	Table No.	Square yards.	Cost.
Sidewalks, new.....	1	1,113.74	\$629.26
Sidewalks, repairs.....	2	1,635.217	801.99
Street crossings, new.....	3	87.90	60.87
Street crossings, repairs....	4	81.98	33.94
Driveways, new.....	5	30.38	92.78
Street paving, new.....	6	770.55	770.55
Street paving, repairs.....	7	7,764.907	4,237.68
		11,488.974	\$6,560.07

## ABSTRACT REPORT OF THE COMMITTEE ON STREETS FOR THE YEAR 1913.

## PERSONNEL OF THE COMMITTEE.

Alderman from Ward 4, William H. Morgan, *chairman*.

Alderman from Ward 8, Gustav F. Wenzel.

Alderman from Ward 3, John M. East.

Clerk of the committee, Samuel J. Lord.

Tables Nos. 9, 10, 11, 12, and 13 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 information pertaining to the petitions that have been acted upon by the committee during the year 1913, also highways laid out and discontinued, and grades ordered established by the board of mayor and aldermen during the year.

Table No. 9 is a list of the petitions for new highways that have been acted upon by the committee during the year.

Table No. 10 is a list of the petitions for establishing grades that have been acted upon by the committee during the year.

Table No. 11 is a list of highways that have been laid out by the board of mayor and aldermen during the year.

Table No. 12 is a list of highway grades ordered established by the board of mayor and aldermen during the year.

Table No. 13 is a list of highways that have been discontinued by the board of mayor and aldermen during the year.

Distances are given in feet.

TABLE No. 9.  
PETITIONS FOR NEW HIGHWAYS ACTED UPON BY THE COMMITTEE ON STREETS DURING 1913.

Location.	Limits.	Distance.	Width.	Petition of	Date of Petition.	Granted.
Anherst	Highland to Hilton	197.55	45	Arthur Provencher	April 4, 1913	May 5, 1913
Babel	Bismark to Forest	216.00	40	Herman Babel	April 3, 1913	May 8, 1913
Batchelder avenue	Hayward to Hayward	601.57	50	B. J. Fellows	May 21, 1913	July 7, 1913
Belvedere	Half to 1000.48 feet easterly	1,000.48	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Belmont	Villa boulevard to Manning	200.00	50	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Blackstone	Calef road to Overland	763.82	40	The America Land Co.	Nov. 4, 1913	Nov. 8, 1913
Congress*	Amory to 400 feet southerly	400.00	50	Pierre Morin	Nov. 11, 1912	Jan. 3, 1913
Coolidge avenue*	North of Mason to Dexter	918.00	75	Ubald Hebert	Nov. 26, 1912	Jan. 3, 1913
Dudley	Calef road to Overland	800.40	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Garfield	Calef road to Overland	708.66	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Hevey	Bromer to Coolidge avenue	1,318.42	50	Ludger Paradis	May 19, 1913	July 8, 1913
Highland avenue	Wilkins to Fogg avenue	353.92	40	Camille Desbates	May 22, 1913	July 15, 1913
Hudson	Porter to Mammoth road	790.00	50	Charles J. Hadley	June 23, 1913	July 8, 1913
Johnson	Porter to Mammoth road	710.00	50	Charles J. Hadley	June 23, 1913	July 8, 1913
Knowlton	Young to 569 feet northerly	569.00	40	Charles J. Hadley	June 27, 1913	July 8, 1913
Knowlton	Somerville to 631 feet northerly	631.00	40	Charles J. Hadley	July 18, 1913	Oct. 3, 1913
McNeil	Second to Dartmouth	540.00	40	Charles B. Sturtovant	July 16, 1913	Oct. 3, 1913
Merrill*	Woodman to 300.39 ft. westerly	300.39	50	W. W. Marsters	Nov. 26, 1912	Jan. 3, 1913
Overland	Belvedere to 1,482.52 ft. north	1,482.52	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Pinard	Salley to Manches-Goffst. line	1,628.06	50-70	I. H. C. Davignon	Aug. 20, 1908	June 2, 1913
Public	Half Road to Overland	829.98	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Rimmon	Mason to Coolidge avenue	363.29	50	Charles Miville	May 10, 1913	June 2, 1913
Rosedale avenue	Calef Road to Ehn.	618.07	50	Martin Grady	April 12, 1913	June 5, 1913
Somerville	Porter to Mammoth road	908.41	50	Denis Morissette	July 18, 1913	Oct. 3, 1913
Victoria	Crown to B. & M. R.	633.50	50	The America Land Co.	June 2, 1913	Nov. 7, 1913
View	Farfield to 353.10 ft. northerly	353.10	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Villa boulevard	Hall to Taylor	974.73	60	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Villa street	Taylor to Cypress	754.35	50	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Warner	Mast to 931.78 ft. northerly	931.78	45	Max Schwotzer	April 28, 1913	June 2, 1913
Westminster	Calef Road to Overland	739.24	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Woodman*	Valley to Merrill	270.00	50	W. W. Marsters	Nov. 26, 1912	Jan. 3, 1913
Woodman	Verrill to Hayward	220.90	50	Mrs. Jennie F. Dieck	May 17, 1913	Oct. 3, 1913
Young*	Porter to Mammoth road	980.00	49.5	Charles J. Hadley	July 18, 1913	Oct. 3, 1913
		20,652.87				

SUMMARY.

Whole number of highway petitions acted upon.....	33	Total length of highways petitioned for.....	19,672.87
Granted a hearing .....	33	Total length of highway discontinuance petitions for .....	980.00
		Granted a hearing .....	20,652.87
			<hr/>
			20,652.87
			<hr/>
			20,652.87

\*Action taken by previous committee.

†Petition for discontinuance.

TABLE No 10.  
 PETITIONS FOR ESTABLISHING GRADE ACTED UPON BY THE COMMITTEE ON STREETS DURING 1913.

Location.	Limits.	Distance.	Width.	Petition of	Date of Petition.	Granted.
Amherst	Highland to Hilton	197.55	45	Arthur Provencher	April 4, 1913	May 5, 1913
Babel	Bismarck to Forest	216.00	40	Herman Babel	April 3, 1913	May 5, 1913
Bachelor avenue	Harvard to Hayward	601.57	50	B. J. Fellows	May 2, 1913	July 8, 1913
Belleuve	Calif rd. to 1,000.48 ft. easterly	1,000.48	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Belmont	Villa boulevard to Manning	230.00	50	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Belmont*	Hanover to Amherst	320.00	50	Edwin L. Gresley	April 2, 1913	May 5, 1913
Blackstone	Calif road to Overland	769.82	40	The America Land Co.	April 4, 1913	Nov. 7, 1913
Cartier east back	Schuyler to Sullivan	400.00	20	Antoine Sevigny	Mar. 31, 1913	May 5, 1913
Clay	Union to Beech	492.21	50	Eugene Mailhot	Mar. 27, 1913	July 8, 1913
Cody†	Candia road to Oakland ave.	350.00	50	Margaret A. Bohan	Oct. 8, 1912	Jan. 3, 1913
Congress†	Amory to 400 feet southerly	400.00	50	Pierre Morin	Nov. 11, 1912	Jan. 3, 1913
Coolidge avenue†	North of Mason to Dexter	918.00	75	Ubald Hebert	Nov. 26, 1912	Jan. 3, 1913
Dudley	Calif road to Overland	800.40	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Garfield	Calif road to Overland	708.66	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Hanover*	Belmont to Milton	200.00	66	Edwin L. Gresley	Nov. 2, 1913	May 5, 1913
Hanover*	Milton to Beacon	208.38	66	Edwin L. Gresley	April 2, 1913	May 5, 1913
High, East†	Weston to Highland	502.00	50	George N. Garland	Oct. 31, 1912	Jan. 3, 1913
Highland avenue	Wilkins to Fogg avenue	353.92	40	Camille Deshaies	Mar. 22, 1913	April 15, 1913
Hudson	Porter to Mammoth road	790.00	50	Charles J. Hadley	June 23, 1913	July 8, 1913
Johnson	Porter to Mammoth road	710.00	50	Charles J. Hadley	June 23, 1913	July 8, 1913
Kelly and Pinard	Kelly to Manches-Goffst. line	2,273.78	50-70	Eugene Quirin	Aug. 20, 1908	June 2, 1913
Knowlton	Young to 500 feet northerly	550.00	40	Charles J. Hadley	June 27, 1913	July 8, 1913
Knowlton	Somerville to 681 ft. northerly	691.00	40	Charles J. Hadley	July 18, 1913	July 8, 1913
Lowell	Maple to South	203.50	50	Mary A. Connolly	July 5, 1912	Oct. 2, 1913
Maple	Auburn to Valley	1,300.00	50	Catherine McLaughlin	Dec. 5, 1912	May 5, 1913
Merrill†	Woodman to 300.39 ft. westerly	300.39	50	W. W. Marsters	Nov. 23, 1912	May 5, 1913
Milton*	Hanover to Amherst	310.00	40	Edwin L. Gresley	Nov. 26, 1912	Jan. 3, 1913
McNeil	Second to Dartmouth	540.00	40	Charles B. Sturtevant	April 2, 1913	May 5, 1913
Overland	Bellevue to 1,432.32 ft. northerly	1,432.32	40	The America Land Co.	July 16, 1913	Oct. 3, 1913
Public	Calif road to Overland	830.98	40	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Rimmon	Vason to Coolidge avenue	312.29	50	Charles Myville	Nov. 4, 1913	Nov. 7, 1913
Rossdale Avenue	Calif road to Elm	618.07	50	Martin Grady	May 10, 1913	June 2, 1913
Schuyler	Main to Notre Dame avenue	301.00	50	Joseph P. Lariyiere	April 12, 1913	June 2, 1913
Schuyler	Not. Dame ave. to Cartier e. b.	100.00	50	Antoine Sevigny	July 17, 1913	Oct. 3, 1913
					Mar. 31, 1913	May 5, 1913

Somerville* .....	908.41	Charles J. Hadley .....	July 18, 1913	Oct. 2, 1913
Union* .....	220.00	D. Cohen .....	Dec. 5, 1912	May 5, 1913
Victoria .....	583.50	Denis Morrisette .....	June 4, 1913	July 8, 1913
View .....	359.10	The America Land Co.....	Nov. 4, 1913	Nov. 7, 1913
Villa boulevard .....	974.73	The America Land Co.....	Nov. 4, 1913	Nov. 7, 1913
Villa street .....	754.35	The America Land Co.....	Nov. 4, 1913	Nov. 7, 1913
Warner .....	931.78	Hugo F. Becker.....	April 28, 1913	June 7, 1913
Westminster .....	739.24	The America Land Co.....	Nov. 4, 1913	Nov. 7, 1913
Woodman† .....	220.00	W. W. Marsters.....	Nov. 26, 1912	Jan. 3, 1913
Woodman .....	220.90	Mrs. Jennie F. Dickey.....	July 17, 1913	Oct. 3, 1913
Porter to Mammoth road.....				
Lake avenue to Central.....				
Crown to B. & M. R. R.....				
Garfield to 353.10 ft. northerly				
Hall to Taylor .....				
Taylor to Cypress.....				
Mast to 931.78 feet northerly..				
Calef road to Overland.....				
Valley to Merrill.....				
Merrill to Hayward.....				
	25,894.33			

\*Petition for changing grade.

†Action taken by previous committees.

‡Granted leave to withdraw May 5, 1913.

SUMMARY.

Whole number of grade petitions acted upon.....	44	Total length of highway grades petitioned for..	25,894.33
Granted a hearing.....	43	Granted a hearing.....	25,685.95
Granted leave to withdraw.....	1	Granted leave to withdraw.....	208.38
	44		25,894.33
			25,894.33

TABLE No. 11.  
HIGHWAYS LAID OUT IN 1913 BY THE BOARD OF MAYOR AND ALDERMEN.

Location.	Limits.	Length.	Width.	Laid Out.	Petition of	Date of Petition.	Hearing Recommended.
Amherst	Highland to Hilton.	197.55	45	July 30, 1913	Arthur Provencher	April 4, 1913	May 5, 1913
Babel	Bismarck to Forest.	216.00	40	May 28, 1913	Herman Babel	April 3, 1913	May 5, 1913
Batchelder avenue.	Harvard to Hayward.	601.57	50	July 30, 1913	B. J. Fellows.	May 21, 1913	July 8, 1913
Belmont	Villa to Manning.	200.00	50	Nov. 26, 1913	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Conant	Montgomery to 130 feet westerly	130.00	50	April 30, 1913	Henry F. Dietsch	June 3, 1912	Sept. 30, 1912
Congress	Amory to 400 ft. southerly	400.00	50	May 28, 1913	Pierre Morin	Nov. 11, 1912	Jan. 3, 1913
Coolidge avenue.	North of Mason to Dexter	918.00	75	May 28, 1913	Ubald Hebert	Nov. 26, 1912	Jan. 3, 1913
Hevy	Bremer to Coolidge ave.	1,318.42	50	Sept. 24, 1913	Ludger Paradis	May 19, 1913	July 8, 1913
Highland avenue.	Wilkins to Fogg avenue	352.92	40	Oct. 29, 1913	Camille Deshaies	May 22, 1913	April 15, 1913
Hudson	Porter to Mammoth road	790.00	50	July 30, 1913	Charles J. Hadley	June 23, 1913	July 8, 1913
Johnson	Porter to Mammoth road	710.00	50	July 30, 1913	Charles J. Hadley	June 23, 1912	July 8, 1913
Knowlton	Young to 560 ft. northerly	560.00	40	July 30, 1913	Charles J. Hadley	June 27, 1912	July 8, 1913
Knowlton	Somerville to 681 feet northerly	691.00	40	Nov. 26, 1913	Charles J. Hadley	July 18, 1913	Oct. 3, 1913
McNeil	Second to Dartmouth.	540.00	40	Nov. 26, 1913	Charles B. Sturtevant	July 16, 1913	Oct. 3, 1913
Merrill	Woodman to 300.39 feet westerly	300.39	50	July 30, 1912	W. W. Marsters	Nov. 26, 1912	Jan. 3, 1913
Pinard	Kelley to Manchester-Goffstown line	1,628.06	50-70	July 14, 1913	I. H. C. Davignon	Aug. 20, 1908	June 2, 1913
Rimmon	Mason to Coolidge ave.	362.29	50	July 30, 1913	Charles Miville	May 10, 1913	June 2, 1913
Rosedale avenue.	Calef road to Etna.	618.07	50	Sept. 24, 1913	Martin Grady	April 12, 1913	June 2, 1913
Somerville	Porter to Mammoth road	908.41	50	Nov. 26, 1913	Charles J. Hadley	July 18, 1913	Oct. 3, 1913
Victoria	Crown to B. & M. R. R.	633.50	50	July 30, 1913	Denis Morrissette	June 2, 1912	July 8, 1913
Villa	Hall to Taylor.	974.72	60	Nov. 26, 1913	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Villa	Taylor to Cypress.	734.35	50	Nov. 26, 1913	The America Land Co.	Nov. 4, 1913	Nov. 7, 1913
Woodman	Valley to Merrill.	270.00	50	May 28, 1913	W. W. Marsters	Nov. 26, 1912	Jan. 3, 1913
Woodman	Merrill to Hayward.	220.90	50	Nov. 26, 1913	Mrs. Jennie F. Dickey	May 17, 1913	Oct. 3, 1913
		14,298.79					



TABLE No. 12.  
HIGHWAY GRADES ORDERED ESTABLISHED BY THE BOARD OF MAYOR AND ALDERMEN IN 1913.

Location.	Limits.	Distance.	Width.	Petition of	Date of Petition.	Ordered Passed.
Anherst	Highland to Hilton.	197.55	45	Arthur Provencher	April 4, 1913	July 30, 1913
Babel	Bismarck to Forest.	216.00	40	Herman Babel	April 3, 1913	May 28, 1913
Bachelder avenue.	Villa to Manning.	691.57	50	B. J. Fellows	May 2, 1913	July 30, 1913
Belmont	Capita road to Oakland avenue.	220.00	50	The America Land Co.	Nov. 4, 1913	Nov. 26, 1913
Cody	Montgomery to 130 feet westerly.	360.00	50	Margaret A. Bohan.	Oct. 8, 1912	Sept. 24, 1913
Conant	Amory to 400 feet westerly.	130.00	50	Henry F. Dietsch	June 3, 1912	April 30, 1913
Coolidge avenue.	North of Mason to Dexter.	400.00	50	Pierre Morin	Nov. 11, 1912	May 28, 1913
Hanover*	Belmont to Milton.	918.00	75	Ubaldo Hebert	Nov. 26, 1912	May 28, 1913
Hanover*	Milton to Beacon.	200.00	65	Edwin L. Gresley	April 2, 1913	May 28, 1913
High, East	Weston to Highland.	208.38	66	Edwin L. Gresley	April 2, 1913	May 28, 1913
Highland avenue.	Wilkins to Fozz avenue.	502.00	50	George N. Garland.	April 31, 1912	May 28, 1913
Hudson	Wilkins to Fozz avenue.	353.92	40	Camille Desbaires	Mar. 22, 1913	Oct. 29, 1913
Johnson	Porter to Mammoth road.	790.00	50	Charles J. Hadley	June 23, 1913	July 30, 1913
Kelley and Pinard.	Kelley to Manchester-Goffst. line	710.00	50	Charles J. Hadley	June 23, 1913	July 30, 1913
Knowlton	Young to 560 feet northerly.	2,273.78	50-70	Eugene Quirin	Aug. 20, 1908	July 15, 1913
Knowlton	Somerville to 591 feet northerly.	560.00	40	Charles J. Hadley	June 27, 1913	July 30, 1913
Lowell	Maple to South.	691.00	40	Charles J. Hadley	July 18, 1913	Nov. 26, 1913
Maple	Auburn to Valley.	203.50	50	Mary A. Connolly	Dec. 5, 1912	May 28, 1913
Merrill	Woodman to 300.39 feet westerly.	1,300.00	50	Catherine McLaughlin	Nov. 23, 1912	May 28, 1913
Merrill	Hanover to Amherst.	390.39	50	W. W. Marsters	Nov. 26, 1912	July 30, 1913
Milton*	Second to Dartmouth.	310.00	40	Edwin L. Gresley	Nov. 2, 1913	May 28, 1913
McNeil	Mason to Coolidge avenue.	540.00	40	Charles B. Sturtevant.	July 16, 1913	Nov. 26, 1913
Rimmon	Calet road to Elm.	312.29	50	Charles Miville	May 10, 1913	July 30, 1913
Russdale avenue.	Mason to Coolidge avenue.	618.07	50	Marin Grady	April 12, 1913	Sept. 26, 1913
Schnyer	Main to Notre Dame avenue.	301.00	50	Joseph P. Lariviere	July 17, 1913	Nov. 26, 1913
Somerville	Porter to Mammoth road.	908.41	50	Charles J. Hadley	July 18, 1913	Nov. 26, 1913
Union*	Lake avenue to Central.	220.00	50	D. Cohen	Dec. 5, 1912	May 28, 1913
Victoria	Crown to B. & M. R. R.	583.50	50	Denis Morrissette	June 4, 1913	July 30, 1913
Villa	Hall to Taylor.	974.73	60	The America Land Co.	Nov. 4, 1913	Nov. 26, 1913
Villa	Taylor to Cypress.	754.35	50	The America Land Co.	Nov. 4, 1913	Nov. 26, 1913
Woodman	Valley to Merrill.	220.00	50	W. W. Marsters	Nov. 26, 1913	Nov. 26, 1913
Woodman	Merrill to Hayward.	220.90	50	Mrs. Jennie F. Dickey	July 17, 1913	Nov. 26, 1913
		17,090.85				

\*Changing grade.

TABLE No. 13.  
 HIGHWAYS DISCONTINUED IN 1913 BY THE BOARD OF MAYOR AND ALDERMEN.

LOCATION.	LIMITS.	Distance.	Width.	Discontinued.	Petition of	Date of Petition.	Hearing Rec- ommended.
Young.....	Porter to Mammoth road..	980.80	49.5	Nov. 26, 1913	Charles J. Hauley .....	July 18, 1913	Oct. 3, 1913

ABSTRACT REPORT OF THE COMMITTEE ON SEWERS AND DRAINS FOR THE  
YEAR 1913.

## PERSONNEL OF THE COMMITTEE.

Alderman from Ward 8, Gustav F. Wenzel, *chairman*.

Alderman from Ward 9, Nazaire E. Biron.

Alderman from Ward 10, Harry R. Bennett.

Tables Nos. 14, 15, 16, 17, 18, and 19 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 information pertaining to the petitions, orders for sewers passed by the city councils, sewers built and not built up to January 1, 1914.

Table No. 14 is a list of 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 No. 15 is a list of sewers ordered in up to January 1, 1913, giving the distance built, distances built in excess or order, and distances remaining unbuilt up to January 1, 1914.

Table No. 16 is a list of sewers ordered built during the year 1913 giving distances built, distances ordered in, that are unnecessary, and distances remaining unbuilt up to January 1, 1914.

Table No. 17 is a list of sewers built in 1913, not ordered in by the board of mayor and aldermen.

Table No. 18 is a list of pipes removed where sewers have been rebuilt.

Table No. 19 is a list of sewers ordered in but not built up to January 1, 1914. The table is compiled from the first, second, fourth and eighth columns of Tables Nos. 15 and 16.

Table No. 20 is a summary of Tables Nos. 15 and 16.

TABLE No. 14.  
 PETITIONS ACTED UPON BY THE COMMITTEE ON SEWERS AND DRAINS DURING THE YEAR 1913.

Location.	Limits.	Distance.	Petition of	Date of Petition.	Granted.
Babel	Bismarck to Forest.	256	Herman Babel	April 3, 1913	May 12, 1913
Bell	Wentworth to Second.	560	Alex Ringenwald	Feb. 6, 1913	May 12, 1913
Bremer	Hevey to Youville.	810	Solomon Coulton	June 19, 1913	Oct. 20, 1913
Bremer	Reed to Al-acc.	540	Julien Lambert	Feb. 27, 1913	Oct. 20, 1913
Cedar south back	Hall easterly, 125 feet.	125	Mrs. Margaret A. Tobin	Oct. 26, 1912	May 12, 1913
Cilley road	Taylor easterly 225 feet.	225	E. W. Bean	Jan. 30, 1913	Feb. 27, 1913
Coolidge avenue	Rhinmon, southerly 780 feet.	780	Uhald Hebert	Aug. 21, 1913	Oct. 20, 1913
Grove	Wilson, easterly 600 feet.	600	John Britton	April 28, 1913	June 2, 1913
Hall	Howe to Shasta.	250	Corra M. Stearns	Oct. 23, 1912	May 12, 1913
Hevey	Amory, southerly 200 feet.	200	Joseph Caron	Oct. 3, 1913	Oct. 20, 1913
High, East	Weston to Highland.	552	George N. Garland	Oct. 3, 1913	Oct. 20, 1913
Highland	Hanover to Amherst.	368	Maurice Reidde	Mar. 22, 1913	May 12, 1913
Highland avenue	Wilkins to Fogg avenue.	360	Camille Deshaies	Oct. 16, 1912	Oct. 20, 1913
Hilton	Hanover to Amherst.	368	R. M. Powers, Sr.	April 28, 1913	May 12, 1913
Mast	Brook to Warner.	735	Max Schwotzer	Dec. 2, 1912	Oct. 20, 1913
Merrill	Woodman, westerly 300 feet.	300	W. W. Marsters	April 3, 1913	May 12, 1913
Morgan	Amory to Kelley.	700	Harry H. Farley	Jan. 30, 1913	Feb. 27, 1913
Private land	Merrimack river to Coolidge avenue.	1,800	Uhald Hebert	Mar. 20, 1913	Oct. 20, 1913
Shasta	Lincoln, easterly 200 feet.	200	Thomas Chilcott	Jan. 20, 1913	Feb. 27, 1913
Warner	Mast, northerly 950 feet.	950	Hugo F. Becker	April 28, 1913	June 2, 1913
Woodbine avenue	Oakland avenue to Glenwood avenue.	374	S. A. Rouleau	Nov. 16, 1912	June 2, 1913
Woodman	Valley to Merrill.	270	W. W. Marsters	Dec. 2, 1912	Oct. 20, 1913
		11,323			

TABLE No. 15.  
SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1913.

Location.	Limits.	Distance.	Date of Order.	Built During 1913.		Not Needed.	Not Built.
				Distance.	Excess.		
Adams.....	Carpenter to Trenton.....	531	Dec. 19, 1902	263	...	...	268
Agawam.....	River road to Davis.....	74	Dec. 6, 1910	...	...	...	74
Ainsworth avenue.....	Hayward to Young.....	155	May 31, 1905	...	...	...	155
Amherst.....	Union to Ashland.....	2,600	May 2, 1893	...	...	...	2,600
Albert.....	Harrison to Brook.....	306	Jan. 23, 1906	...	...	...	306
Amory.....	Bremer, northerly.....	350	May 7, 1912	...	...	...	350
Amory.....	Alsace to Joliette.....	60	Oct. 7, 1902	...	...	...	60
Auburn.....	Congress to Kimball.....	248	Dec. 6, 1910	...	...	...	248
Auburn.....	Cypress, easterly.....	300	May 2, 1899	...	...	...	300
Auburn south back.....	Hall, easterly.....	150	Jan. 7, 1896	...	...	...	150
Bartlett.....	Sullivan, southerly.....	127	Mar. 6, 1906	...	...	...	127
Bay.....	Clarke to Carpenter.....	683	April 14, 1903	...	...	...	683
Beacon.....	Coucord to Lovell.....	161	Dec. 6, 1910	...	...	...	161
Beech.....	Shasta to Willow.....	895	May 7, 1912	...	...	...	895
Beech.....	Somerville to Shasta.....	192	Nov. 23, 1906	...	...	...	192
Beech.....	Bridge to Orange.....	573	Dec. 6, 1910	...	...	...	573
Beech.....	Salmon to North.....	325	Dec. 3, 1912	...	...	...	325
Bell.....	Second to Hale.....	285	Aug. 14, 1911	...	...	...	285
Belmont.....	Old Bridge to Bridge.....	200	Jan. 7, 1896	...	...	...	200
Blaine.....	Second to Hiram.....	228	Dec. 6, 1892	...	...	...	228
Boutwell.....	Second to Third.....	107	May 2, 1905	...	...	...	107
Boutwell.....	Kelley, southerly.....	18	Nov. 7, 1911	...	...	...	18
Boutwell.....	Mast, northerly.....	400	Nov. 7, 1911	...	...	...	400
Bowman.....	Bank to Milford.....	455	Oct. 7, 1902	...	...	...	455
Boynton.....	Bank to Allen.....	1,225	May 7, 1912	610	...	...	615
Brook.....	Milford, northerly.....	75	Nov. 19, 1912	...	...	...	75
Brook.....	Maple to Oak.....	192	June 2, 1907	37	...	...	155
Burgess.....	East High to Lowell.....	130	Nov. 19, 1912	...	...	...	130
Byron.....	Brown avenue to Josselyn.....	225	Sept. 27, 1909	...	...	...	225
Cartier east back.....	South of Sullivan, southerly.....	50	July 16, 1912	...	...	...	50
Cedar south back.....	Beech, westerly.....	175	May 5, 1896	...	...	...	175
Cedar south back.....	Maple to Lincoln.....	96	May 13, 1903	...	...	...	96

TABLE No. 15.—Continued.

Location.	Limits.	Distance.	Date of Order.	Built During 1913.		Not Needed.	Not Built.
				Distance.	Excess.		
Central	Milton to Beacon.....	307	Sept. 6, 1898	...	...	...	307
Central south back.	Chestnut to Union.....	814	July 9, 1901	...	...	...	814
Chester	Lincoln to Ashland.....	277	July 5, 1904	280	3	...	...
Chestnut	Carpenter to Trenton.....	147	Oct. 7, 1902	...	...	...	147
Gilley road.	Wilson to Hall.....	511	May 7, 1912	513	2	...	...
Clarke	Elm to Chestnut.....	290	April 14, 1903	...	...	...	290
Clay	Union to Beech.....	492	Nov. 27, 1908	...	...	...	492
Clay	Lincoln to Wilson.....	232	July 21, 1908	...	...	...	232
Clay	Taylor to Cypress.....	246	July 21, 1908	...	...	...	246
Colby	West Hancock to Log.....	270	June 12, 1906	...	...	...	270
Columbus	Amory, southerly.....	128	July 26, 1899	159	21	...	...
Concord	Pine east back to Union.....	152	Sept. 12, 1899	...	...	...	152
Concord	Dutton, westerly.....	97	Feb. 2, 1904	...	...	...	97
Concord	Hall, easterly.....	86	Sept. 6, 1887	...	...	...	86
Concord	Weston to Hubbard.....	101	Sept. 27, 1905	...	...	...	101
Congress	Amory, southerly.....	200	Feb. 14, 1912	...	...	...	200
Cumberland	Amory to Monitor.....	156	Aug. 3, 1909	...	...	...	156
Cumberland	Amory to Monitor.....	680	Dec. 6, 1910	...	...	...	680
Cypress	Clay to Somerville.....	325	May 7, 1912	...	...	...	325
D	Mast, westerly.....	300	July 16, 1912	...	...	...	300
Dix	Maple to Lincoln.....	97	Aug. 14, 1911	...	...	...	97
Dix	Lincoln to Wilson.....	670	Dec. 6, 1910	...	...	...	670
Dix	Wilson to Hall.....	89	Sept. 27, 1905	...	...	...	89
Dix	Taylor to Cypress.....	442	July 15, 1904	...	...	...	442
Dover	Clinton, northerly.....	160	Sept. 4, 1894	...	...	...	160
Dutton	Concord, easterly.....	300	Feb. 2, 1904	...	...	...	300
Elm	Railroad bridge to Elm avenue.....	1,285	May 6, 1890	...	...	...	1,285
Elm	Monroe south back to Clarke.....	599	June 4, 1895	...	...	...	599
Elm	Trenton to Rowell.....	448	Feb. 4, 1896	...	...	...	448
Foster avenue.	Valley to Hayward.....	140	July 14, 1896	...	...	...	140
Front	Eddy to north of hotel.....	2,800	Sept. 5, 1893	100	...	...	2,700
Gates	Dubuque, westerly.....	135	July 16, 1912	...	...	...	135
George	North of Milford to Charleston ave.....	32	Oct. 7, 1902	...	...	...	32
Grove south back....	Wilson, easterly.....	200	Nov. 2, 1897	...	...	...	200

Hall	Chilley road to Holly avenue	742	May 7, 1912	754	12	754	7, 1912
Hall	Clay to Dix	250	Dec. 19, 1902	...	...	...	Dec. 19, 1902
Hall	Lovell to East High	143	July 25, 1902	...	...	...	July 25, 1902
Hall road	Massabesic to Nelson	601	Aug. 5, 1898	...	...	...	Aug. 5, 1898
Hale	Schiller, southerly	450	Nov. 9, 1894	...	...	...	Nov. 9, 1894
Harrison	Linden, easterly	52	Nov. 23, 1906	...	...	...	Nov. 23, 1906
Harrison	Maple to Oak	350	Oct. 3, 1899	...	...	...	Oct. 3, 1899
Harrison	East of Linden to Hall	477	Dec. 6, 1910	...	...	...	Dec. 6, 1910
Harrison	Belmont, westerly	65	Sept. 1, 1896	...	...	...	Sept. 1, 1896
Harvard	Lincoln to Wilson	670	Dec. 6, 1910	250	...	...	Dec. 6, 1910
Harvell	Belmont to Taylor	602	Nov. 19, 1912	...	...	...	Nov. 19, 1912
Hayward	Hale to South Main	700	Nov. 9, 1894	...	...	...	Nov. 9, 1894
Hayward	East of Union to Beech	355	July 16, 1912	...	...	...	July 16, 1912
Hayward	Beech to Maple	142	Dec. 6, 1910	...	...	...	Dec. 6, 1910
Hayward	Ainsworth avenue to Cypress	148	Sept. 7, 1907	...	...	...	Sept. 7, 1907
Hayward	Union, easterly	85	Sept. 5, 1907	82	...	...	Sept. 5, 1907
Heavy east back	South of Amory to Columbus avenue	386	July 10, 1892	...	...	...	July 10, 1892
High, East	Beacon to Weston	192	July 5, 1904	...	...	...	July 5, 1904
Highland	Lovell to East High	74	Aug. 14, 1911	...	...	...	Aug. 14, 1911
Holly avenue	Hall, easterly	1,300	May 7, 1912	366	...	...	May 7, 1912
Hosley	Grove to Summer	116	June 26, 1903	...	...	...	June 26, 1903
Hospital avenue	Chase avenue to Massabesic	142	Sept. 14, 1904	...	...	...	Sept. 14, 1904
Hubbard	North of Amherst, northerly	290	Nov. 19, 1912	...	...	...	Nov. 19, 1912
Huntress	Prince to McDuffie	163	Nov. 3, 1903	...	...	...	Nov. 3, 1903
Huntress	McDuffie to Bank	174	Dec. 6, 1910	...	...	...	Dec. 6, 1910
Joliette	North of Kelley, northerly	53	May 7, 1912	...	...	...	May 7, 1912
Jones	Nelson to Benton	285	Aug. 5, 1898	...	...	...	Aug. 5, 1898
Knowlton	Hayward, southerly	67	Nov. 23, 1906	...	...	...	Nov. 23, 1906
Knowlton	Hayward, southerly	492	July 21, 1908	...	...	...	July 21, 1908
Laval	Kelley, northerly	615	Nov. 7, 1911	...	...	...	Nov. 7, 1911
Lincoln	Silver to Clay	248	July 21, 1908	...	...	...	July 21, 1908
Mammoth road	No. 155 to Young	633	Nov. 27, 1908	...	...	...	Nov. 27, 1908
Mammoth road	Massabesic to Nelson	32	May 2, 1899	...	...	...	May 2, 1899
Mammoth road	Nelson, northerly	500	Aug. 5, 1898	...	...	...	Aug. 5, 1898
Maple	North of Nelson to Hanover	1,280	Oct. 26, 1911	...	...	...	Oct. 26, 1911
Massabesic	Prospect to Harrison	99	June 19, 1905	...	...	...	June 19, 1905
Mass	Hall road to Mammoth road	831	Mar. 2, 1899	...	...	...	Mar. 2, 1899
Merrill	Rochelle avenue to Brook	176	Dec. 31, 1901	166	...	...	Dec. 31, 1901
Montgomery e. b.	Jewett, easterly	34	June 5, 1900	...	...	...	June 5, 1900
Oakland avenue	Kelley to Brener	150	Dec. 31, 1901	...	...	...	Dec. 31, 1901
Pine	Revere avenue to Woodland avenue	1,070	Dec. 13, 1905	...	...	...	Dec. 13, 1905
Pine east back	Silver to Plummer	320	Oct. 3, 1899	...	...	...	Oct. 3, 1899
Pine east back	Bell south back to Valley	134	Feb. 14, 1912	...	...	...	Feb. 14, 1912
Prescott	South of Concord to Concord	160	Sept. 12, 1899	...	...	...	Sept. 12, 1899
Prescott	Maple, easterly	21	June 26, 1903	...	...	...	June 26, 1903
Prescott	Hall, westerly	80	Oct. 1, 1907	...	...	...	Oct. 1, 1907
Prospect	Hall, easterly	100	Sept. 3, 1895	...	...	...	Sept. 3, 1895

TABLE No. 15.—*Concluded.*

Location.	Limits.	Distance.	Date of Order.	Built During 1913.		Not Needed.	Not Built.
				Distance.	Excess.		
Ray .....	Carpenter to Trenton.....	118	Sept. 18, 1911	...	...	...	118
Reed east back.....	Amory to Kelley.....	104	Oct. 1, 1907	...	...	...	104
Reed east back.....	Kelley to Bremer.....	600	Feb. 14, 1912	145	...	...	455
Kiley avenue.....	South to Hayward, southerly 150 ft.	75	Aug. 3, 1909	...	...	...	75
Rimmon .....	South of Wayne to Putnam.....	104	Aug. 6, 1901	...	...	...	164
Rimmon east back.....	Kelley to Mason.....	800	Sept. 7, 1887	...	...	...	800
Sagamore .....	Chestnut to Pine.....	294	July 31, 1903	...	...	...	294
Sagamore .....	Linden, easterly 150 feet.....	50	Sept. 7, 1909	...	...	...	50
Salmon .....	Beech to Ash.....	126	Sept. 7, 1909	...	...	...	126
Schiller .....	Hale to South Main.....	708	Nov. 10, 1896	104	...	...	604
Second .....	Bell, southerly.....	60	Aug. 14, 1911	...	...	...	60
Shasta .....	Maple to Lincoln.....	600	Dec. 6, 1910	...	...	...	214
Somerville .....	Union to Maple.....	165	Aug. 2, 1898	...	...	...	165
Somerville .....	Hall to west of Cypress.....	184	Dec. 19, 1902	...	...	...	181
Somerville .....	Jewett, easterly 250 feet.....	230	Aug. 3, 1909	...	...	...	230
Spruce, East .....	Kennedy, westerly.....	95	April 2, 1907	...	...	...	95
Stevens .....	Baker, southerly.....	178	Nov. 12, 1912	...	...	...	178
Sullivan .....	Thornton, westerly 500 feet.....	146	June 7, 1910	...	...	...	146
Summer .....	Hall to Belmont.....	247	June 27, 1910	...	...	...	247
Taylor .....	South of Valley, southerly.....	75	Oct. 2, 1909	...	...	...	75
Thornton .....	Wayne to Putnam.....	155	Mar. 6, 1908	...	...	...	155
Union .....	Clarke to Trenton.....	180	July 2, 1895	...	...	...	180
Union east back.....	Trenton, northerly.....	401	Oct. 7, 1902	...	...	...	401
Valley .....	South of Christian brook, southerly	133	Aug. 6, 1895	...	...	...	50
Valley .....	Cypress, westerly.....	2,396	Jan. 4, 1897	...	...	...	133
Valley .....	Elm to Wilson.....	625	Nov. 7, 1893	...	...	...	2,396
Walnut .....	East of Jewett to Massabesic.....	105	Nov. 7, 1911	300	...	...	325
Walnut .....	Salmon, southerly.....	168	Jan. 29, 1887	...	...	...	105
Walnut east back.....	Webster, northerly.....	88	July 31, 1903	122	...	...	46
Warner .....	Salmon, northerly.....	24	Nov. 10, 1896	...	...	...	88
Wayland avenue.....	Wilkins, southerly 150 feet.....	410	Aug. 3, 1909	...	...	...	24
Weston .....	Mammoth road to Revere avenue.....	687	Sept. 17, 1912	...	...	...	410
	Bridge to Lowell.....		Dec. 6, 1910	...	...	...	687



Williams .....	522	Oct. 3, 1899	...	...	522
Wilson .....	314	May 7, 1912	513	...	...
Woodbine avenue...	341	June 26, 1911	...	1	341
Youville .....	92	Aug. 15, 1910	...	...	92
	52,868		4,764	48	47,752

\*Previously built.

TABLE No. 16.  
SEWERS ORDERED IN DURING THE YEAR 1913.

Location.	Limits.	Distance.	Date of Order.	Built During 1913.		Not Needed.	Not Built.
				Distance.	Excess.		
Babel .....	Bismarck to Forest.....	256	June 3, 1913	179	...	...	77
Bell .....	Wentworth to Second.....	560	June 3, 1913	...	...	...	560
Bremer .....	Hevey to Youville.....	810	Nov. 4, 1913	...	...	...	810
Bremer .....	Reed to Alsace.....	540	Nov. 4, 1913	...	...	...	540
Cedar south back...	Hall, easterly 125 feet.....	125	Nov. 4, 1913	...	...	...	125
Ciley road.....	Taylor, easterly 225 feet.....	225	June 3, 1913	196	...	...	29
Coolidge avenue...	Rimmon, southerly 780 feet.....	780	Mar. 18, 1913	...	...	...	780
Grove .....	Wilson, easterly 600 feet.....	600	Nov. 4, 1913	600	9	...	...
Hall .....	Howe to Shasta.....	250	June 17, 1913	...	...	...	...
Hevey .....	Amory, southerly 200 feet.....	200	June 3, 1913	...	...	...	200
High, East .....	Weston to Highland.....	532	Nov. 4, 1913	...	...	...	532
Highland .....	Hanover to Highland.....	308	Nov. 4, 1913	...	...	...	308
Highland avenue...	Wilkins to Amherst.....	369	June 3, 1913	...	...	...	369
Hilton .....	Hanover to Amherst.....	368	Nov. 4, 1913	...	...	...	368
Mast .....	Brook to Warner.....	735	June 3, 1913	75	...	...	660
Morgan .....	Woodman, westerly 300 feet.....	300	Nov. 4, 1913	...	...	...	300
Private land.....	Amory to Kelley.....	700	June 3, 1913	...	...	...	700
Shasta .....	Merrimack river to Coolidge avenue	1,800	Mar. 18, 1913	...	...	...	1,800
Warner .....	Lincoln, easterly 200 feet.....	200	Nov. 4, 1913	...	...	...	200
Woodbine avenue...	Mast, northerly 950 feet.....	950	June 17, 1913	...	...	...	950
Woodmap .....	Oakland avenue to Glenwood avenue	374	June 17, 1913	...	...	...	374
	Valley to Merrill .....	270	Nov. 4, 1913	...	...	...	270
		11,323		1,059	9	...	10,273

TABLE No. 17.

## SEWERS BUILT IN 1913 WITHOUT AN ORDER.

Location.	Limits.	Distance.
Allen .....	South Main, westerly.....	100
Amherst <sup>1</sup> .....	At Pine .....	30
Batchelder avenue <sup>2</sup> .....	Hayward, southerly .....	200
Bell south back <sup>3</sup> .....	Union, easterly .....	26
Boutwell east back .....	Bremer, northerly .....	386
Boynton <sup>4</sup> .....	Bank, southerly .....	76
Bremer .....	Laval to Boutwell east back.....	134
Canal east back <sup>3</sup> .....	Granite, northerly .....	47
Frederick .....	Second to Hale east back.....	144
Front <sup>5</sup> .....	Black brook, southerly.....	1,212
Grove <sup>6</sup> .....	Taylor, westerly .....	197
Hale east back.....	Frederick to Woodbury.....	538
Hall <sup>4</sup> .....	Laurel to Merrimack.....	273
Maple <sup>6</sup> .....	Brook, southerly .....	124
Maple .....	Johnson avenue, southerly.....	62
Nutfield lane <sup>4</sup> .....	Hanover, southerly .....	75
Ray <sup>3</sup> .....	Webster, northerly .....	41
Schiller .....	East of Hale, westerly.....	188
Schiller <sup>4</sup> .....	Hale, easterly .....	84
Seneca lane <sup>4</sup> .....	West of Union, westerly.....	62
Union <sup>6</sup> .....	Green to Green south back.....	126
Union <sup>6</sup> .....	Grove to Grove south back.....	126
Union <sup>6</sup> .....	Bell to Bell south back.....	126
		4,377

<sup>1</sup>For connection to library.<sup>2</sup>On favorable report by committee.<sup>3</sup>On account of macadamizing street.<sup>4</sup>Relaid.<sup>5</sup>Under special appropriation.<sup>6</sup>For cesspools.

TABLE 18.  
PIPE REMOVED WHERE SEWERS HAVE BEEN RELAID.

LOCATION	LIMITS.	PIPE REMOVED.			PIPE LAID.		
		Material.	Size in Inches.	Length in Feet.	Material.	Size in Inches.	Length in Feet.
Boynton .....	Bank southerly .....	Akron.....	12	76	Akron.....	20	76
Hall .....	Laurel to Merrinack .....	Cement.....	12	273	Akron.....	15	273
Nutfield lane .....	Hanover, southerly .....	Portland .....	12	75	Akron.....	12	75
Seneca lane.....	West of Union, westerly.....	Cement .....	9	62	Akron.....	10	62
Schiller.....	East of Hale, westerly.....	Akron.....	15	84	Akron.....	24	84
				570			570

TABLE No. 19.  
SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1,  
1914.

Location.	Limits.	Distance.	Date of Order.
Adams .....	Carpenter to Trenton.....	268	Dec. 19, 1902
Agawam .....	River road to Davis.....	74	Dec. 6, 1910
Ainsworth Avenue ..	Union to Ashland.....	2,600	May 31, 1905
Amherst .....	Hayward to Young.....	155	May 2, 1893
Albert .....	Harrison to Brook.....	366	Jan. 23, 1906
Alsace .....	Bremer, northerly.....	350	May 7, 1912
Amory .....	Alsace to Joliette.....	60	Oct. 7, 1902
Amory .....	Congress to Kimball.....	248	Dec. 6, 1910
Auburn .....	Cypress, easterly.....	300	May 2, 1899
Auburn south back...	Hall, easterly.....	150	Jan. 7, 1896
Babel .....	Bismarck to Forest.....	77	June 3, 1913
Bartlett .....	Sullivan, southerly.....	127	Mar. 6, 1906
Bay .....	Clarke to Carpenter.....	683	April 14, 1903
Beacon .....	Concord to Lowell.....	161	Dec. 6, 1910
Beech .....	Shasta to Willow.....	825	May 7, 1912
Beech .....	Somerville to Shasta.....	192	Nov. 23, 1906
Beech .....	Bridge to Orange.....	573	Dec. 6, 1910
Beech .....	Salmon to North.....	525	Dec. 3, 1912
Bell .....	Wentworth to Second.....	560	June 3, 1913
Bell .....	Second to Hale.....	295	Aug. 14, 1911
Belmont .....	Old Bridge to Bridge.....	200	Jan. 7, 1896
Blaine .....	Second to Hiram.....	228	Dec. 6, 1892
Blaine .....	Second to Third.....	107	May 2, 1905
Boutwell .....	Kelley, southerly.....	18	Nov. 7, 1911
Boutwell .....	Kelley, northerly.....	400	Nov. 7, 1911
Bowman .....	Mast to Milford.....	455	Oct. 7, 1902
Boynton .....	Bank to Allen.....	539	May 7, 1912
Bremer .....	Hevey to Youville.....	810	Nov. 4, 1913
Bremer .....	Reed to Alsace.....	540	Nov. 4, 1913
Brook .....	Milford, northerly.....	75	Nov. 19, 1912
Brook .....	Maple to Oak.....	155	June 2, 1907
Burgess .....	East High to Lowell.....	130	Nov. 19, 1912
Byron .....	Brown avenue to Josselyn.....	225	Sept. 27, 1909
Cartier east back...	South of Sullivan, southerly.....	50	July 16, 1912
Cedar south back...	Beech, westerly.....	175	May 5, 1896
Cedar south back...	Maple to Lincoln.....	96	May 13, 1903
Cedar south back...	Hall, easterly 125 feet.....	125	Nov. 4, 1913
Central .....	Milton to Beacon.....	307	Sept. 6, 1898
Central south back...	Chestnut to Union.....	814	July 9, 1901
Chestnut .....	Carpenter to Trenton.....	147	Oct. 7, 1902
Cilley road.....	Taylor, easterly 225 feet.....	29	June 3, 1913
Clarke .....	Elm to Chestnut.....	290	April 14, 1903
Clay .....	Union to Beech.....	492	Nov. 27, 1908
Clay .....	Lincoln to Wilson.....	232	July 21, 1908
Clay .....	Taylor to Cypress.....	246	July 21, 1908
Colby .....	West Hancock to Log.....	270	June 12, 1906
Concord .....	Pine east back to Union.....	152	Sept. 12, 1899
Concord .....	Dutton, westerly.....	97	Feb. 2, 1904
Concord .....	Hall, easterly.....	86	Sept. 6, 1887
Concord .....	Weston to Hubbard.....	101	Sept. 27, 1905
Congress .....	Amory, southerly.....	200	Feb. 14, 1912
Coolidge avenue.....	Rimmon, southerly 780 feet.....	780	Mar. 18, 1913
Cumberland .....	Amory to Monitor.....	156	Aug. 3, 1909
Cumberland .....	Amory to Monitor.....	650	Dec. 6, 1910
Cypress .....	Clay to Somerville.....	325	May 7, 1912
D .....	Mast, westerly.....	300	July 16, 1912
Dix .....	Maple to Lincoln.....	97	Aug. 14, 1911
Dix .....	Lincoln to Wilson.....	670	Dec. 6, 1910
Dix .....	Wilson to Hall.....	89	Sept. 27, 1905
Dix .....	Taylor to Cypress.....	442	July 15, 1904
Dover .....	Clinton, northerly.....	160	Sept. 4, 1894
Dutton .....	Concord, easterly.....	300	Feb. 2, 1904
Elm .....	Railroad bridge to Elm avenue.....	1,285	May 6, 1890
Elm .....	Monroe south back to Clarke.....	599	June 4, 1895
Elm .....	Trenton to Rowell.....	448	Feb. 4, 1896
Foster avenue.....	Valley to Hayward.....	140	July 14, 1896
Front .....	Eddy to north of hotel.....	2,700	Sept. 5, 1893
Gates .....	No. of Milford to Charleston ave.....	32	July 16, 1912

TABLE No. 19.—Continued.

Location.	Limits.	Distance.	Date of Order.
George .....	No. of Milford to Charleston ave.	32	Oct. 7, 1902
Grove south back....	Wilson, easterly .....	200	Nov. 2, 1897
Hall .....	Clay to Dix.....	250	Dec. 19, 1902
Hall .....	Howe to Shasta.....	250	June 17, 1913
Hall .....	Lowell to East High.....	143	July 25, 1902
Hall road.....	Massabesic to Nelson.....	601	Aug. 5, 1898
Hale .....	Schiller, southerly .....	450	Nov. 9, 1894
Harrison .....	Linden, easterly .....	52	Nov. 23, 1906
Harrison .....	Maple to Oak .....	350	Oct. 3, 1899
Harrison .....	East of Linden to Hall.....	477	Dec. 6, 1910
Harrison .....	Belmont, westerly .....	65	Sept. 1, 1896
Harvard .....	Lincoln to Wilson.....	420	Dec. 6, 1910
Harvard .....	Belmont to Taylor.....	602	Nov. 19, 1912
Harvell .....	Hale to South Main.....	700	Nov. 9, 1894
Hayward .....	East of Union to Beech.....	355	July 16, 1912
Hayward .....	Beech to Maple.....	142	Dec. 6, 1910
Hayward .....	Ainsworth avenue to Cypress.....	148	Sept. 7, 1897
Hevey .....	Amory, southerly 200 feet.....	200	June 3, 1913
Hevey east back....	South of Amory to Columbus ave.	396	July 10, 1892
High, East .....	Beacon to Weston.....	192	July 5, 1904
High, East .....	Weston to Highland.....	552	Nov. 4, 1913
Highland .....	Hanover to Amherst.....	368	Nov. 4, 1913
Highland .....	Lowell to East High.....	74	Aug. 14, 1911
Highland avenue....	Wilkins to Fogg avenue.....	360	June 3, 1913
Hilton .....	Hanover to Amherst.....	368	Nov. 4, 1913
Holly avenue.....	Hall, easterly .....	934	May 7, 1912
Hosley .....	Grove to Summer.....	116	June 26, 1903
Hospital avenue....	Chase avenue to Massabesic.....	142	Sept. 14, 1904
Hubbard .....	North of Amherst, northerly.....	200	Nov. 19, 1912
Huntress .....	Prince to McDuffie.....	163	Nov. 3, 1903
Huntress .....	McDuffie to Bank.....	174	Dec. 6, 1910
Joliette .....	North of Kelley, northerly.....	53	May 7, 1912
Jones .....	Nelson to Benton.....	285	Aug. 5, 1898
Knowlton .....	Hayward, southerly .....	67	Nov. 23, 1906
Knowlton .....	Hayward, southerly .....	492	July 21, 1908
Laval .....	Kelley, northerly .....	615	Nov. 7, 1911
Lincoln .....	Silver to Clay.....	248	July 21, 1908
Mammoth road.....	No. 155 to Young.....	633	Nov. 27, 1908
Mammoth road.....	Massabesic to Nelson.....	32	May 2, 1899
Mammoth road.....	Nelson, northerly .....	500	Aug. 5, 1898
Mammoth road.....	North of Nelson to Hanover.....	1,280	June 26, 1911
Maple .....	Prospect to Harrison.....	99	Oct. 19, 1905
Massabesic .....	Hall road to Mammoth road.....	831	Mar. 2, 1899
Mast .....	Brock to Warner.....	690	June 3, 1913
Merrill .....	Jewett, easterly .....	34	June 5, 1909
Merrill .....	Woodman, westerly 300 feet.....	300	Nov. 4, 1913
Montgomery e. b....	Kelley to Bremer.....	150	Dec. 31, 1901
Morgan .....	Amory to Kelley.....	700	June 3, 1913
Oakland avenue....	Revere ave. to Woodland ave.....	1,070	Dec. 13, 1905
Pine .....	Silver to Plummer.....	320	Oct. 3, 1899
Pine east back....	Bell south back to Valley.....	134	Feb. 14, 1912
Pine east back....	South of Concord to Concord.....	160	Sept. 12, 1899
Prescott .....	Maple, easterly .....	21	June 26, 1903
Prescott .....	Hall, westerly .....	80	Oct. 1, 1907
Private land .....	Merrimack river to Coolidge ave.	1,800	Mar. 18, 1913
Prospect .....	Hall, easterly .....	100	Sept. 3, 1895
Ray .....	Carpenter to Trenton.....	118	Sept. 18, 1911
Reed east back....	Amory to Kelley.....	104	Oct. 1, 1907
Reed east back....	Kelley to Bremer.....	455	Feb. 14, 1919
Riley avenue.....	South of Hayward, southerly 150 ft.	75	Aug. 3, 1909
Rimmon .....	South of Wayne to Putnam.....	164	Aug. 6, 1901
Rimmon east back..	Kelley to Mason.....	800	Sept. 7, 1897
Sagamore .....	Chestnut to Pine.....	294	July 31, 1903
Sagamore .....	Linden, easterly 150 feet.....	50	Sept. 7, 1909
Salmon .....	Beech to Ash.....	126	Sept. 7, 1909
Schiller .....	Hale to South Main.....	604	Nov. 10, 1896
Second .....	Bell, southerly .....	60	Aug. 14, 1911
Shasta .....	Maple to Lincoln.....	214	Dec. 6, 1910

TABLE No. 19.—*Concluded.*

Location.	Limits.	Distance.	Date of Order.
Shasta .....	Lincoln, easterly 200 feet.....	200	Nov. 4, 1913
Somerville .....	Union to Maple.....	165	Aug. 2, 1898
Somerville .....	Hall to west of Cypress.....	184	Dec. 19, 1902
Somerville .....	Jewett, easterly 250 feet.....	250	Aug. 3, 1909
Spruce, East .....	Kenney, westerly .....	95	April 2, 1907
Stevens .....	Baker, southerly .....	178	Nov. 19, 1912
Sullivan .....	Thornton, westerly 500 feet.....	146	June 7, 1910
Summer .....	Hall to Belmont.....	247	June 27, 1910
Taylor .....	South of Valley, southerly.....	75	Oct. 2, 1900
Thornton .....	Wayne to Putnam.....	155	Mar. 6, 1906
Union .....	Clarke to Trenton.....	180	July 2, 1895
Union .....	Trenton, northerly .....	401	Oct. 7, 1902
Union east back.....	So. of Christian brook, southerly	50	Aug. 6, 1895
Valley .....	Cypress, westerly .....	133	Jan. 4, 1897
Valley .....	Elm to Wilson.....	2,396	Nov. 7, 1893
Valley .....	East of Jewett to Massabesic.....	305	Nov. 7, 1911
Walnut .....	Salmon, southerly .....	105	Jan. 29, 1897
Walnut .....	Webster, northerly .....	46	July 31, 1903
Walnut east back....	Salmon, northerly .....	88	Nov. 10, 1896
Warner .....	Mast, northerly 950 feet.....	24	June 17, 1913
Warner .....	Wilkins, southerly 150 feet.....	24	Aug. 3, 1909
Wayland avenue.....	Mammoth road to Revere avenue	410	Sept. 17, 1912
Weston .....	Bridge to Lowell .....	687	Dec. 6, 1910
William .....	Milford to Mast.....	522	Oct. 3, 1899
Woodbine avenue....	Oakland avenue to Glenwood ave.	374	June 17, 1913
Woodbine avenue....	Longwood avenue to Candia road	341	June 26, 1911
Woodman .....	Valley to Merrill.....	270	Nov. 4, 1913
Youville .....	Kelley, northerly 200 feet.....	92	Aug. 15, 1910
		57,929	

TABLE No. 20.

## SUMMARY.

Table No. 15, column 3 (ordered in to January 1, 1913).....	52,868	.....
Table No. 15, column 5 (built) .....		4,764
Table No. 15, column 6 (built in excess of order).....	48	.....
Table No. 15, column 7 (not needed) .....		400
Table No. 15, column 8 (not built) .....		47,752
Table No. 16, column 3 (ordered in during 1913).....	11,323	.....
Table No. 16, column 5 (built) .....		1,059
Table No. 16, column 6 (built in excess of order).....	9	.....
Table No. 16, column 7 (not needed) .....		.....
Table No. 16, column 8 (not built) .....		10,273
	64,248	64,248
Sewers built in 1913 of those ordered in to January 1, 1913 (feet).....		5,823
Sewers built in 1913 without orders (feet) .....		3,807
Sewers relaid in 1913 without orders (feet).....		570
Total length of sewers built in 1913 (feet).....		10,200

## SEWERAGE SYSTEM.

Table No. 21 gives the location, material, size, length, manholes new, manholes rebuilt, lampholes rebuilt, lampholes new, lampholes removed, house connections and cesspool connections built during the year 1913.

Table No. 22 gives the material, size and length of all public sewers in the city of Manchester January 1, 1914. This table gives the total length in feet of each size of sewer and the number of manholes on each size, also total length in feet and miles of each material.

Table No. 23 is a summary of the sewerage system by years from January 1, 1880, to January 1, 1914. 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 is noted that on 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. 21.  
SEWERS BUILT IN 1913.

Location.	Limits.	Material.	Size in Inches.	Length in Feet New.	Length in Feet Relaid.	Manholes New.	Lamp Holes New.	Lamp Holes Removed.	House Connections.	Cesspool Connections.
Adams, North .....	Carpenter, northerly.....	Akron	10	263	...	...	1	...	6	...
Allen .....	South Main, westerly.....	Akron	12	100	...	...	...	...	...	...
Amherst .....	At Pine .....	Akron	12	30	...	1	...	...	1	...
Babel .....	Bismarck, westerly .....	Akron	10	179	...	...	1	...	2	...
Batchelder avenue.....	Hayward, southerly .....	Akron	10	200	...	...	1	...	7	...
Bell south back.....	Union, easterly .....	Akron	12	26	...	...	...	...	...	...
Boutwell east back.....	Bremer, northerly .....	Akron	10	386	...	1	...	...	7	...
Boynton .....	Bank to Balch avenue.....	Akron	20	610	76	3	...	1*	17	...
Bremer .....	Laval to Boutwell east back..	Akron	10	134	...	1	...	1	1	...
Brook .....	East of Maple, easterly.....	Akron	8	37	...	...	1	...	1	...
Canal east back.....	Granite, northerly .....	Akron	10	47	...	2	...	...	...	...
Chester .....	Ashland, westerly .....	Akron	10	280	...	1	...	...	4	...
Cilley road.....	Wilson to Hall.....	Akron	10	513	...	2	...	...	17	...
Cilley road.....	Taylor, easterly .....	Akron	15	513	...	2	...	...	...	...
Columbus .....	South of Amory, southerly....	Akron	10	196	...	...	...	...	7	...
Frederick .....	Second to Hale east back.....	Akron	10	159	...	1	...	1	...	...
Front .....	Black brook, southerly .....	Akron	12	144	...	1	...	...	...	...
Front .....	Black brook, southerly .....	Akron	22	532	...	5	...	...	3	...
Front .....	Black brook, southerly .....	Akron	20	930	...	4	...	...	7	...
Grove .....	Black brook, southerly .....	Akron	15	150	...	1	...	...	17	...
Grove .....	Wilson to east of Hall.....	Akron	12	609	...	3	...	...	2	...
Grove .....	Taylor, westerly .....	Akron	12	197	...	1	...	...	18	...
Hale east back.....	Frederick to Woodbury.....	Akron	10	538	...	2	...	...	1	2
Hall .....	Laurel to Merrimack.....	Akron	15	754	273	1	...	...	20	1
Hall .....	Cilley road to Holly avenue..	Akron	15	754	...	3	...	...	3	...
Harvard .....	Lincoln, easterly .....	Akron	15	250	...	1	...	...	23	...
Harvard .....	Batchelder avenue, westerly..	Akron	12	82	...	1	...	1	7	...
Holly avenue.....	Hall, easterly .....	Akron	10	366	...	1	...	1	13	...
Maple .....	Brook, southerly .....	Akron	10	124	...	1	...	...	1	...
Maple .....	Johnson avenue, southerly....	Akron	10	62	...	1	...	...	1	2
Mast .....	East of Brock, westerly.....	Akron	18	241	...	1	...	...	8	2



Nutfield lane.....										
Ray.....	12			75	2	...	...	...	1	...
Reed east back.....	10	41	...	...	1	1	...	...	5	...
Seneca lane.....	10	145	...	...	1	1	...	...	2	...
Schiller .....	10	...	62	...	1	1	...	...	1	...
Union .....	24	104	84	...	1	...	...	...	...	...
Union .....	10	188	...	...	1	...	...	...	...	...
Union .....	10	126	...	...	1	...	...	...	...	...
Union .....	10	126	...	...	1	...	...	...	...	...
Valley .....	10	126	...	...	1	...	...	...	...	...
Walnut .....	12	300	...	...	3	1	...	...	7	...
Wilson .....	10	122	...	...	2	1	...	...	6	...
	20	513	...	...	2	1	...	...	14	...
		9,630	570	50	6	5	228	24		

\* Manhole removed.

TABLE No. 22.  
MATERIAL, SIZE AND LENGTH OF SEWERS JANUARY 1, 1913.

SIZE IN INCHES.	Akron.	Portlan (old).	Portland (new).	Cement.	Earthen.	Brick.	Cast-iron.	Steel riveted.	Total feet.	Man-holes.
6.....	330	90	601	.....	.....	.....	24	.....	330	1
8.....	15,232	2,890	11,730	6,927	1,132	.....	.....	.....	15,987	28
10.....	143,620	985	8,269	17,668	2,065	.....	.....	.....	6,927	1
12.....	113,715	.....	.....	.....	.....	.....	.....	.....	139,462	480
14.....	.....	.....	.....	.....	.....	.....	.....	.....	142,668	349
15.....	44,197	770	5,338	490	.....	.....	70	.....	24	179
18.....	7,054	.....	1,815	800	.....	4,867	.....	.....	50,095	51
20.....	17,953	.....	4,374	.....	.....	.....	158	.....	15,366	80
22.....	1,901	.....	568	.....	.....	.....	.....	.....	22,485	15
24.....	20,364	.....	5,583	735	.....	1,900	36	67	2,862	15
16x24.....	.....	.....	.....	1,697	.....	.....	.....	.....	34,685	167
27.....	.....	.....	465	.....	.....	.....	.....	.....	1,697	7
29.....	.....	.....	.....	.....	.....	1,600	.....	.....	465	3
36.....	.....	.....	.....	.....	.....	506	277.5	39	892.5	1
42.....	.....	.....	.....	.....	.....	446	.....	.....	446	.....
44.....	.....	.....	.....	.....	.....	1,195	.....	.....	1,195	2
48.....	.....	.....	.....	.....	.....	.....	.....	372	.....	.....
57.....	.....	.....	.....	.....	.....	.....	.....	.....	372	3
60.....	.....	.....	.....	.....	.....	1,400	.....	.....	1,400	2
17x26.....	.....	.....	.....	.....	.....	285	.....	.....	285	2
20x30.....	.....	.....	.....	.....	.....	1,506	.....	.....	1,506	1
22x33.....	.....	.....	.....	.....	.....	1,197	.....	.....	1,506	4
24x36.....	.....	.....	.....	.....	.....	849	.....	.....	1,197	5
26x39.....	.....	.....	.....	.....	.....	.....	.....	.....	849	3
28x42.....	.....	.....	.....	.....	.....	11,051	.....	.....	11,051	39
29½x44.....	.....	.....	.....	.....	.....	514	.....	.....	514	2
30x46.....	.....	.....	.....	.....	.....	4,530	.....	.....	4,530	10
32x48.....	.....	.....	.....	.....	.....	1,360	.....	.....	4,530	10
36x54.....	.....	.....	.....	.....	.....	3,279	.....	.....	1,360	1
38x57.....	.....	.....	.....	.....	.....	1,067	.....	.....	3,279	10
40x60.....	.....	.....	.....	.....	.....	4,388	.....	.....	1,067	4
42x63.....	.....	.....	.....	.....	.....	700	.....	.....	4,388	8
50x75.....	.....	.....	.....	.....	.....	3,104	.....	.....	700	4
.....	.....	.....	.....	.....	.....	712	.....	.....	3,104	9
.....	.....	.....	.....	.....	.....	.....	.....	.....	712	2
Total feet.....	370,389	4,735	39,183	28,317	3,187	46,546	713.5	478	493,498.5	1,471
Total miles.....	70.149	0.896	7.411	5.365	0.603	8.816	0.135	0.09	93.465	.....

TABLE No. 23.  
SUMMARY OF SEWERAGE SYSTEM SINCE 1880.

YEAR.	Miles constructed during year.	Miles constructed to date.	House connections recorded during year.	House connections 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	35.63	.....	.....	19,893.92	13,815.22
1888.....	1.73	35.36	.....	.....	31,154.19	19,008.20
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	12,691.68
1893.....	3.31	49.35	191	2,625	51,392.15	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.....	4.73	60.97	237	3,375	66,408.87	14,099.33
1897.....	*3.93	64.44	283	3,658	36,258.41	9,226.05
1898.....	*3.76	67.62	520	4,178	34,939.51	9,292.42
1899.....	*1.54	69.03	208	4,386	16,683.39	10,819.31
1900.....	*1.14	70.17	231	4,617	13,748.41	12,091.58
1901.....	1.74	71.91	227	4,844	14,724.39	8,462.29
1902.....	*1.95	73.46	186	5,030	20,973.05	10,755.41
1903.....	1.41	74.87	190	5,220	17,330.32	12,291.00
1904.....	*3.22	76.75	300	5,520	25,574.79	11,520.17
1905.....	*1.91	78.51	319	5,839	23,437.19	12,260.78
1906.....	*1.35	79.69	163	6,002	21,313.20	15,787.55
1907.....	*2.04	81.63	199	6,201	25,631.95	12,564.68
1908.....	*1.48	83.03	198	6,399	12,818.59	8,661.21
1909.....	*1.40	84.43	173	6,572	16,055.97	11,468.55
1910.....	*2.54	86.96	312	6,884	30,124.03	11,906.73
1911.....	*2.03	88.76	280	7,164	22,217.24	10,944.48
1912.....	*2.96	91.62	393	7,557	27,938.57	9,438.70
1913.....	*1.93	93.46	228	7,785	20,555.98	10,650.76

#### ABSTRACT REPORT OF THE BOARD OF EXAMINERS OF PLUMBERS.

The board of examiners of plumbers, appointed 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 drainage," and subsequently amended (chapter 32, Laws of 1913), comprised William K. Robbins of the Board of Health, Christian L. Wolf, a master plumber, and Samuel J. Lord, engineer. In May, 1913, Edward C. Corey, a master plumber, was appointed in place of Christian L. Wolf resigned. The board organized by the choice of William K. Robbins president and Samuel J. Lord clerk.

Following is a statement of the expenditures of the board for the year 1913:

\* Includes old sewers relaid.

## PIKE &amp; HEALD COMPANY.

1912.			
Dec.	10.	To 15 lbs wiping solder @ 34c.....	\$5.10
1913.			
Feb.	11.	To 26 lbs. lead pipe @ 7c.....	\$1.82
		16¾ lbs. wiping solder @ 34c	5.70
			<hr/>
			\$7.52

## TEMPLE &amp; FARRINGTON COMPANY.

1913.			
Mar.	28.	To binding record of meetings of board of examiners of plumbers for year 1911..	\$1.00

## PIKE &amp; HEALD COMPANY.

1913.			
Mar.	24.	To 18¾ lbs. wiping soldier @ 34c.....	\$6.38

## TEMPLE &amp; FARRINGTON COMPANY.

1913.			
May	21.	To binding record of board of examiners of plumbers for the year 1912.....	\$1.00

## PIKE &amp; HEALD COMPANY.

1913.			
May	16.	To 56½ lbs. lead pipe @ 7c.....	\$3.96
		18½ lbs. wiping soldier @ 34c	6.29
	29.	To 18 lbs. wiping solder @ 34c..	6.12
June	4.	To 55½ lbs. lead pipe @ 6½c...	3.61
		3 ft. 4" light soil pipe hub end @ 18½c .....	.56
June	11.	To 3 ft. 4" D. H. soil pipe @ .168	.50
			<hr/>
			\$21.04
	16.	To 1¼ lbs. wiping solder @ 34c	\$4.17
	17.	To 1½ ft. 4" light D. H. pipe @ 18½c .....	.28
July	11.	To 48¼ lbs. lead pipe @ 6½c...	3.14
			<hr/>
			\$7.59

## J. T. MANSEAU &amp; COMPANY.

1913.			
	29.	To. 18 lbs. wiping solder @ 34c..	6.12
Dec.	15.	To 155 lbs. 1¼" lead pipe	
		92½ lbs. 1½" lead pipe	
		118 lbs. 4" lead pipe	
		365½ lbs. @ 6½c .....	\$23.76
		24½ lbs. wiping solder @ 28c	6.86
		2¾ lbs. Fin. solder @ 33c....	.91
		12½ ft. 4" D. H. St. pipe @ 17c	2.13
			<hr/>
			\$33.66

By credit:		
182 lbs. old lead @ 5c.....	\$9.10	
245 lbs. old wiping soldier @		
10c .....	24.50	
		<u>33.60</u>
		<u>\$0.06</u>

## SUMMARY.

Appropriated to the board of examiners of plumbers for the year 1913.....		\$50.00
Expense of the board during the year.....	\$49.69	
Balance unexpended.....	.31	
		<u>\$50.00</u>
		<u>\$50.00</u>
Renewal fees received for 71 plumbers' certificates @ 50c each (a renewal fee of 50c is required by state law).....	\$35.50	
Renewal fees received for 85 plumbers' licenses @ 50c each (required by law).....	42.50	
Examination fee for 23 plumbers' licenses @ \$1.00 each (required by law).....	23.00	
Paid to the city treasurer (the state law requires all fees to be paid into the city treasury) .....		\$101.00
		<u>\$101.00</u>
		<u>\$101.00</u>

The above amounts include \$21.50 collected from delinquent plumbers.

Table No. 24 gives the name, address and number of the application of each and every person making renewal application to the board for a plumber's certificate. This table also gives the class of the certificate (master or journeyman), the number of the certificate, the dates of renewal and expiration of the certificate, also the renewal fee paid by the applicant.

Table No. 25 gives the name, address and number of the application of each and every person making renewal application to the board for a plumber's license. This table also gives the class of the license (master or journeyman), the number of the license, dates of renewal and expiration of the license and also the renewal fee paid by the applicant.

Table No. 26 gives the name, address and number of application of each and every person making application to the board for a plumber's license. This table also gives the class of the license (master or journeyman), the number of the license, dates of issue and expiration of the license, also fee paid by the applicant.

Table No. 27 is a summary of Tables Nos. 24, 25 and 26.

TABLE No. 24.  
PLUMBERS' CERTIFICATES RENEWED DURING THE YEAR 1913.

NAME.	RESIDENCE.	No. of application.	Renewal fee received.	Class of plumber.	No. of certificate.	Date of renewal.	Date of expiration.
Anlaw, Ashley A.	777 Grove.	19	\$0.50	Master.	18	Aug. 31, 1913	Aug. 31, 1913
Bangs, Charles S.	251 Concord	77	.50	"	47	"	"
Blood, Frank W.	397 Merrimack.	76	.50	"	84	"	"
Brogan, Thomas J.	60 Parker.	34	.50	"	65	"	"
Burke, John E.	845 Lake avenue.	24	.50	Journeyman.	92	"	"
Caron, Hermenegilde	60 McGregor.	63	.50	Master.	77	"	"
Clarke, Charles H.	328 Beech	100	.50	Master.	76	"	"
Coleman, Michael J.	268 Walnut.	7	.50	"	7	"	"
Colby, James A.	286 Merrimack.	105	.50	"	82	"	"
Connor, John J.	44 Welch ave.	73	.50	"	72	"	"
Connors, John A.	10 Grove St., Lowell, Mass.	17	.50	Journeyman.	85	"	"
Cote, Romuald C.	291 Dubuque	31	.50	"	28	"	"
Desmarias, Raoul.	1113 Elm	68	.50	"	44	"	"
Ewart, John	Arlington, Mass	62	.50	Master.	100	"	"
Farrell, Henry M.	409 Central.	89	.50	"	32	"	"
Farrand, John D.	549 Main.	35	.50	Journeyman.	53	"	"
Ferland, Joseph.	97 Orange	33	.50	"	30	"	"
Geisler, John.	79 Turner	33	.50	"	29	"	"
Goodwin, William E.	Hookssett road	41	.50	"	35	"	"
Griffin, Frank W.	340 Harrison	96	.50	Master.	24	"	"
Guiney, John J.	Lake Shore road	104	.50	Journeyman.	50	"	"
Heald, Frank E.	289 Concord	92	.50	Master.	70	"	"
Hill, Lucius E.	852 Elm	3	.50	Journeyman.	3	"	"
Knoetner, George	245 Railroad.	46	.50	"	36	"	"
Knoetner, Oscar	325 Main.	59	.50	Master.	79	"	"
Lane, Frank A.	731 Beech	79	.50	"	48	"	"
Larkin, John F.	320 Cedar.	75	.50	"	46	"	"
Ladouceur, Albert V.	585 Amory	25	.50	"	23	"	"
Leighton, Frank D.	78 Liberty	23	.50	Journeyman	61	"	"
Lewis, Fred S.	165 Mammoth road.	50	.50	"	34	"	"
Longval, Delphis	78 Laurel.	51	.50	Journeyman.	68	"	"
Marchand, Joseph F.	571 Rimmont.	55	.50	Master.	42	"	"
Mayo, Albert F.	265 Belmont.	9	.50	Journeyman.	9	"	"
McDonald, Charles F.	24 Nashua	5	.50	Master.	5	"	"
McKenna, John J.	101 Amherst	18	.50	Journeyman.	17	"	"
McKenna, Daniel J.	50	65	.50	"	92	"	"
Merrill, Edwin W.	156 Blougef	74	.50	Master.	54	"	"
O'Brien, Martin	123 Amherst	16	.50	"	16	"	"
O'Toole, Thomas J.	264 Grove	60	.50	Journeyman	86	"	"
Rivard, Zephirin H.	Hookssett rd, E. F. D. No. 1	11	.50	"	11	"	"
Thornton, John J.	34 Old Bridge	45	.50	"	87	"	"
Wolf, Adolph A.	36 Second	69	.50	"	45	"	"
Wolf, Christian L.	36 Clinton	15	.50	Master.	15	"	"

TABLE NO. 25.  
 PLUMBERS' LICENSES RENEWED DURING THE YEAR 1913.

Name.	Residence.	No. of Appli- cation.	Renewal Fee Re- ceived.	Class of Plumber.	No. of License.	Date of Renewal.	Date of Expiration.
Amlaw, Roy A.....	518 Manchester .....	133	\$0.50	Master	97	Aug. 31, 1913	Aug. 31, 1914
Barry, James H.....	13 Boyden .....	138	.50	Journeyman	102	Aug. 31, 1913	Aug. 31, 1914
Bartlett, W. T.....	121 Lowell .....	121	.50	Master	89	Aug. 31, 1913	Aug. 31, 1914
Belanger, Arthur .....	432 Kelley .....	111	.50	Master	79	Aug. 31, 1913	Aug. 31, 1914
Belanger, Ernest .....	336 Prospect .....	12	.50	Journeyman	6	Aug. 31, 1913	Aug. 31, 1914
Blethen, Davis M.....	The Amirerst .....	125	.50	Journeyman	91	Aug. 31, 1913	Aug. 31, 1914
Blethen, Henry B.....	119 Laurel .....	119	.50	Journeyman	86	Aug. 31, 1913	Aug. 31, 1914
Bretton, Frank .....	159 Manchester .....	24	.50	Journeyman	18	Aug. 31, 1913	Aug. 31, 1914
Brown, William T.....	South Hooksett .....	23	.50	Journeyman	14	Aug. 31, 1913	Aug. 31, 1914
Brown, William T.....	278 Walnut .....	53	.50	Journeyman	41	Aug. 31, 1913	Aug. 31, 1914
Cadorette, Antonio J.....	214 Bremer .....	127	.50	Master	93	Aug. 31, 1913	Aug. 31, 1914
Call, Ralph H.....	60 Massabesic .....	130	.50	Master	98	Aug. 31, 1913	Aug. 31, 1914
Chapman, John W.....	884 Clay .....	22	.50	Journeyman	12	Aug. 31, 1913	Aug. 31, 1914
Cherrier, L. J.....	Franklin, N. H.....	112	.50	Master	80	Aug. 31, 1913	Aug. 31, 1914
Clement, Joseph H.....	13 Sumner St., Laconia, N. H. ....	39	.50	Master	27	Aug. 31, 1913	Aug. 31, 1914
Corey, Edward C.....	485 Pine .....	31	.50	Journeyman	20	Aug. 31, 1913	Aug. 31, 1914
Cree, Carl D.....	372 Lake avenue.....	120	.50	Journeyman	87	Aug. 31, 1913	Aug. 31, 1914
Danielson, David W. C.....	17 Prospect .....	92	.50	Journeyman	64	Aug. 31, 1913	Aug. 31, 1914
Douglas, Ernest H.....	286 Mystic .....	66	.50	Journeyman	47	Aug. 31, 1913	Aug. 31, 1914
Dubois, Olivia J.....	91 Manchester .....	142	.50	Master	106	Aug. 31, 1913	Aug. 31, 1914
Dubaine, Rudolph .....	214 Sagamore .....	121	.50	Journeyman	88	Aug. 31, 1913	Aug. 31, 1914
Dupont, Adeland F.....	97 Orange .....	103	.50	Journeyman	72	Aug. 31, 1913	Aug. 31, 1914
Foster, Frederick F.....	287 Massabesic .....	54	.50	Master	39	Aug. 31, 1913	Aug. 31, 1914
Gaudette, Alfred J.....	283 Bridge .....	17	.50	Journeyman	13	Aug. 31, 1913	Aug. 31, 1914
Geoffrion, Ernest J.....	165 Kelley .....	88	.50	Journeyman	63	Aug. 31, 1913	Aug. 31, 1914
Gilbert, Albert G.....	546 Montgomery .....	104	.50	Journeyman	74	Aug. 31, 1913	Aug. 31, 1914
Greer, Cecil J.....	316 Manchester .....	73	.50	Master	61	Aug. 31, 1913	Aug. 31, 1914
Greer, Leslie C.....	42 West Brook.....	110	.50	Master	81	Aug. 31, 1913	Aug. 31, 1914
Grimard, Alfred .....	214 Bremer .....	52	.50	Master	38	Aug. 31, 1913	Aug. 31, 1914
Hartshorn, John E.....	17 Prince .....	15	.50	Master	16	Aug. 31, 1913	Aug. 31, 1914
Hickey, George F.....	22 Nashua .....	137	.50	Journeyman	101	Aug. 31, 1913	Aug. 31, 1914
Horsfall, James W.....	Philadelphua Pa.....	55	.50	Master	40	Aug. 31, 1913	Aug. 31, 1914
Hughes, John E.....	The Eagle .....	149	.50	Journeyman	112	Aug. 31, 1913	Aug. 31, 1914



ENGINEER'S DEPARTMENT.

Johnson, Sigfred N.....	346 East High.....	131	Journeyman	95	Aug. 31, 1943	Aug. 31, 1914
Jones, William T.....	117 Belmont.....	150	Journeyman	110	Aug. 31, 1943	Aug. 31, 1914
Keating, John R.....	252 Lowell.....	118	Master	85	Aug. 31, 1943	Aug. 31, 1914
Kellher, Jeremiah J.....	27 Arkwright.....	141	Journeyman	104	Aug. 31, 1943	Aug. 31, 1914
Lacotte, Albert L.....	581 Rimmon.....	27	Journeyman	19	Aug. 31, 1943	Aug. 31, 1914
Ladd, Arthur S.....	81 Pennacook.....	85	Journeyman	69	Aug. 31, 1943	Aug. 31, 1914
Landreagan, John J.....	100 Hall.....	100	Master	71	Aug. 31, 1943	Aug. 31, 1914
Langer, Clemens K.....	36 Clinton.....	29	Master	92	Aug. 31, 1943	Aug. 31, 1914
Langer, Richard C.....	33 Clinton.....	129	Master	91	Aug. 31, 1943	Aug. 31, 1914
Leazotte, James F.....	171 Cypress.....	50	Master	54	Aug. 31, 1943	Aug. 31, 1914
Lemay, Sylvio.....	458 Pine.....	50	Journeyman	84	Aug. 31, 1943	Aug. 31, 1914
Mansour, Oscar.....	Vinecook N. H.....	87	Journeyman	61	Aug. 31, 1943	Aug. 31, 1914
Manson, Gardner E.....	27 Merrimack.....	146	Master	105	Aug. 31, 1943	Aug. 31, 1914
McCourt, Patrick J.....	3 Morrison.....	43	Master	30	Aug. 31, 1943	Aug. 31, 1914
McCue, Michael J.....	259 Manchester.....	79	Journeyman	58	Aug. 31, 1943	Aug. 31, 1914
McLaughlin, John T.....	207 Rosedale road, Mil- ton Mass.....	90	Master	62	Aug. 31, 1943	Aug. 31, 1914
Moher, James.....	83 Clarke.....	20	Master	11	Aug. 31, 1943	Aug. 31, 1914
Murphy, William J.....	739 Page.....	75	Journeyman	63	Aug. 31, 1943	Aug. 31, 1914
Nealey, Chesley E.....	Meredith, N. H.....	93	Journeyman	65	Aug. 31, 1943	Aug. 31, 1914
Nobert, Irene.....	79 Mechanic.....	72	Master	50	Aug. 31, 1943	Aug. 31, 1914
O'Loughlin, George.....	432 Kelley.....	135	Journeyman	100	Aug. 31, 1943	Aug. 31, 1914
O'Malley, P. H. L.....	1188 Elm.....	107	Journeyman	77	Aug. 31, 1943	Aug. 31, 1914
Osborne, Frank C.....	153 Belmont.....	148	Master	111	Aug. 31, 1943	Aug. 31, 1914
Parenteau, Louis.....	164 Spruce.....	102	Master	69	Aug. 31, 1943	Aug. 31, 1914
Pickwick, Fred.....	51 Somerville.....	145	Master	103	Aug. 31, 1943	Aug. 31, 1914
Pitman, John S. C.....	22 Webster.....	124	Journeyman	90	Aug. 31, 1943	Aug. 31, 1914
Raiche, Trefle.....	427 A. Central.....	134	Journeyman	99	Aug. 31, 1943	Aug. 31, 1914
Reidy, Timothy P.....	286 Coolidge avenue.....	5	Master	7	Aug. 31, 1943	Aug. 31, 1914
Rowland, Eugene.....	221 Wellington road.....	98	Master	68	Aug. 31, 1943	Aug. 31, 1914
Sargent, Myron E.....	194 Concord.....	143	Journeyman	108	Aug. 31, 1943	Aug. 31, 1914
Seaman, Carl O.....	51 Ash.....	113	Journeyman	82	Aug. 31, 1943	Aug. 31, 1914
Severance, William B.....	20 Myrtle.....	4	Master	1	Aug. 31, 1943	Aug. 31, 1914
Thompson, William.....	Auburn, N. H.....	101	Master	70	Aug. 31, 1943	Aug. 31, 1914
Treat, William.....	628 Second.....	144	Master	109	Aug. 31, 1943	Aug. 31, 1914
Van Brocklin, George.....	15 Court street, Nashua, N. H.....	139	Journeyman	107	Aug. 31, 1943	Aug. 31, 1914
Welch, John J.....	21 Bazzell.....	44	Master	32	Aug. 31, 1943	Aug. 31, 1914
	284 Merrimack.....	37	Journeyman	26	Aug. 31, 1943	Aug. 31, 1914

TABLE No. 26.  
PLUMBERS' LICENSES GRANTED DURING YEAR 1913.

Name.	Residence.	No. of Appli- cation.	Exami- nation fee.	Class of Plumber.	No. of License.	Date of Issue.	Date of Expiration.
Barry, James H.	13 Boyden	138	\$1.00	Journeyman	102	June 17, 1913	Aug. 31, 1913
Curtice, Edward S.	174 Main	157	1.00	Journeyman	120	Dec. 18, 1913	Aug. 31, 1914
Desmarais, Eugene	172 Prospect	140	1.00	Master	114	Oct. 27, 1913	Aug. 31, 1914
Dubois, Oliva J.	91 Manchester	142	1.00	Master	106	June 19, 1913	Aug. 31, 1913
Goulet, Archie	West Somerville, Mass.	153	1.00	Journeyman	121	Oct. 24, 1913	Aug. 31, 1914
Harrington, William C.	The Eagle	154	1.00	Journeyman	118	Nov. 7, 1913	Aug. 31, 1914
Hickey, George F.	22 Nashua	137	1.00	Journeyman	101	May 5, 1913	Aug. 31, 1913
Hogan, William J.	The Eagle	155	1.00	Journeyman	116	Nov. 7, 1913	Aug. 31, 1914
Hughes, John E.	The Eagle	149	1.00	Journeyman	112	Nov. 7, 1913	Aug. 31, 1913
Jones, William T.	117 Belmont	151	1.00	Journeyman	110	July 13, 1913	Aug. 31, 1913
Kelliker, Jeremiah J.	27 Arkwright	141	1.00	Journeyman	104	June 17, 1913	Aug. 31, 1913
Kenefick, Charles E.	The Eagle	152	1.00	Journeyman	117	Nov. 7, 1913	Aug. 31, 1914
Kenefick, William P.	The Amherst	151	1.00	Journeyman	115	Nov. 7, 1913	Aug. 31, 1914
Mauseau, Oscar	277 Merrimack	146	1.00	Master	105	June 17, 1913	Aug. 31, 1913
Nobert, Irene	432 Kelley	135	1.00	Journeyman	100	April 10, 1913	Aug. 31, 1913
O'Malley, P. H. L.	153 Belmont	148	1.00	Master	114	July 19, 1913	Aug. 31, 1913
O'Rourke, Samuel	41 Reed	156	1.00	Journeyman	119	Dec. 5, 1913	Aug. 31, 1914
Parenteau, Louis	551 Somerville	145	1.00	Journeyman	103	June 17, 1913	Aug. 31, 1913
Pitman, John C.	427 Central	134	1.00	Journeyman	99	April 10, 1913	Aug. 31, 1913
Rowland, Eugene	131 Concord	143	1.00	Journeyman	108	June 17, 1913	Aug. 31, 1913
Thompson, William	36 Clinton	150	1.00	Master	109	June 17, 1913	Aug. 31, 1913
Treat, William	15 Court street, Nashua, N. H.	139	1.00	Journeyman	107	June 19, 1913	Aug. 31, 1913
Van Derlinder, Elancing J.	628 Second	144	1.00	Journeyman	113	Sept. 16, 1913	Aug. 31, 1914

TABLE No. 27.

## SUMMARY OF TABLES Nos. 24, 25 and 26.

Master plumbers' certificates renewed during the year 1913.....	..	23
Journeyman plumbers' certificates renewed during the year 1913....	..	20
Master plumbers' licenses renewed during the year 1913.....	..	33
Journeyman plumbers' licenses renewed during the year 1913.....	..	37
Master plumbers' licenses granted during the year 1913.....	5	...
Journeyman plumbers' licenses granted during the year 1913.....	18	...
		23
Plumbers' licenses granted after August 31, 1913 (not renewable until August 31, 1914) .....		113
		9
Total certificates and licenses in force December 31, 1913.....		122

## COST KEEPING.

The time book as kept by this office exhibits a complete record by days of each employee and the particular or several jobs each was engaged upon for each day during the year. This method has been in vogue since this department was created and will be continued.

In 1905 a new method (in this office) of keeping orders was begun, a card four by six inches being used, setting forth the nature of the order, date ordered, date done and by whom done, transit and level books and plan reference (for convenience) and each card numbered. This method was originally intended to do away with the many inconveniences due to keeping orders in an order book. Beginning in May, 1906, the cost-keeping feature was added. This last method has proved satisfactory beyond expectation, a brief description of which follows:

Size of all cards, five by eight inches. They are divided at the present time into eight classes of work, Board of Public Works (cards or orders) embracing all work done by this office for the Board of Public Works, which includes all streets, sewers and park work, and might properly be designated location and construction engineering.

Office (cards or orders) include all preliminary office or field work, street surveys, levels for profile, cross-section, estimates, plans, details, etc., for the Board of Public Works and individuals.

Miscellaneous (cards or orders) include the setting of all sidewalk grade, staking out street line for abutters on highways and for the staking out of sidewalk construction for any property-owner or contractor.

Cemeteries (cards or orders) include all preliminary location and office work done for cemeteries.

Highway bounds (cards or orders) include the work of setting bounds; it does not include the location of the points. This part of the work is done under office (cards or orders).

Street signs (cards or orders) include street sign work.

Street numbers (cards or orders) include measuring for street numbers, making numbering plans, assigning and putting on numbers.

Under office work, "stock" includes all drawing materials; under field work "stock" includes stakes, hubs, tacks, etc. Each team is charged in the cost record at twenty cents per hour, auto truck at fifty cents per hour, based on three hundred and twelve seven and one half hour days per year.

This price will cover cost, repairs, keeping, interest and replacing new every ten years.

Table No. 28 is a list of highway bounds set and reset during 1912, giving the location, material (concrete or granite) new or reset, cost of labor, team, auto, stock (cost of bound) and total cost per bound; also average cost of concrete bounds and granite bounds.

Table No. 29 is a detailed statement of levels for street profile, and plan profile work done under chief engineer (cards or orders). This table gives the location and limits of the several jobs, the length of distance covered, the number of lines of levels taken, the equivalent distance (under total distance) of a single line of levels, the cost of labor, auto team and total cost of field work, the cost of labor, stock, and total cost of office work, and the total cost of field and office work of each job. This table is given in detail in order to show the actual cost of field and office work of each job.

Table No. 30 is a summary cost record of the cost of work done under miscellaneous (cards or orders), giving the number of orders, the location and description of work, the party or parties ordering the work done, the cost of labor, auto team, stock and total cost of field work, the cost of labor, stock and total cost of office work, and the total cost of field and office work.

Table No. 31 is a summary cost record of street sign work, giving the number of signs put up, cost of labor, auto, team, stock and total cost; also foot notes giving the average cost per sign of labor, auto, team, stock and total average cost per sign.

Table No. 32 is a summary of street number orders, giving the number of orders, cost of labor, auto, team, stock and total cost of street number work. This does not include the street number figures given out at the counter. (See matter under street numbers.)

Table No. 33 is a summary cost record of the cost of cemetery work, giving the number of orders for each cemetery where work was done, the cemetery, the cost of labor, stock and total cost of office work done for each cemetery, the cost of labor, team, stock and total cost of field work, and total cost of office and field work for each cemetery. This work is done under cemeteries (cards or orders).

Table No. 34 is a summary cost record of work done under Board of Public Works (cards or orders), giving the number of orders, description of work, cost of labor, auto team, stock and total cost for each kind of work, as noted under the description of work. Following

this table is given the cost of labor, team, stock and total cost of preliminary field and office work and cost of location field work and finished plans (estimated), setting forth the cost of sewer work engineering and giving the percentage of cost of sewer work engineering to sewer work construction.

Table No. 35 is a summary of Tables Nos. 28, 29, 30, 31, 32, 33 and 34.

TABLE No. 28.  
COST RECORD—HIGHWAY BOUNDS SET DURING THE YEAR 1913.

Location.	Removed.	Concrete.	Granite.	Reset.	Labor.	Auto.	Team.	Stock.	Total.
Amherst and Dutton, northwest corner.....	...	...	...	1	\$2.72	...	\$0.50	\$0.01	\$3.23
Amory, south side, P. C. west of Main.....	...	...	1	...	1.42	\$0.50	...	1.26	3.18
Baker, south side, M. & L. R. east side.....	...	...	...	1	3.80	...	.70	1.01	5.51
Bay and Carpenter, southwest corner.....	...	...	...	1	1.81	.50	...	.01	2.32
Belmont and Hanover, northeast corner.....	...	...	...	1	1.36	...	.25	.01	1.62
Belmont and Massabesic, southwest corner.....	1*	...	...	...	.86	.13	...	...	.49
Blodget and Maple, northeast corner.....	...	...	...	1	2.77	1.00	...	.01	3.78
Burgess and Lowell, northwest corner.....	...	...	1	...	2.08	.75	...	1.26	4.09
Buzzell and Lowell, northeast corner.....	...	...	...	1	2.17	...	.40	.01	2.58
Candia road, Youngsville school lot, east line.....	...	...	1	...	2.52	1.00	...	1.26	4.88
Central and Chestnut, northwest corner.....	...	...	1	...	2.72	...	.56	1.26	4.38
Chester and Derry, southeast corner.....	1	...	...	...	1.49	.50	...	...	1.99
Chester and Derry, northeast corner.....	...	1	...	...	.74	.25	...	.51	1.50
Chestnut and Merrimack, southwest corner.....	...	...	1	...	1.43	.50	...	1.26	3.19
Cilley road and Willow, northeast corner.....	...	...	1	...	2.17	...	.40	1.01	3.58
Cilley road and Maple, southeast corner.....	...	...	1	1	2.98	1.00	...	.01	3.99
Clarke and Elm, northeast corner.....	...	...	...	1	2.72	...	.50	.01	3.23
Clarke, West and River road, northeast corner.....	...	...	1	...	1.43	.50	...	1.26	3.19
Conant and Main, southwest corner.....	...	...	...	1	2.17	...	.40	.01	2.58
Coolidge avenue and Mason, northwest corner.....	...	...	...	1	2.17	...	.40	.01	2.58
Coolidge ave., west side 1st P. C. C., north of Mason	...	...	...	1	4.89	...	.90	.01	5.80
Coolidge avenue and Kimmon, southeast corner.....	...	...	...	1	2.17	...	.90	.01	2.38
Coolidge ave., west side, P. R. C. 56.32 ft. e. of Hevey	...	...	...	1	4.89	...	.90	.01	5.80
Dartmouth and Frederick, northeast corner.....	1	...	...	...	.36	.10	...	...	.46
Dartmouth and Frederick, southeast corner.....	...	...	1	...	1.07	.40	...	1.01	2.48
Front, east side, at Sta. 5+71.46.....	...	...	1	...	1.43	.50	...	1.01	2.94
Hall and Spruce, southeast corner.....	...	1	...	...	1.49	.50	...	.51	2.50
Hanover and Milton, northwest corner.....	...	...	...	1	1.21	.50	...	.01	1.47
Hanover, north side, Dr. Childs' west line.....	...	...	...	1	7.07	...	.25	.01	8.38
Hayward and Willow, southwest corner.....	1*	...	...	...	.36	.13	...	...	.49

Lake ave. and Portsmouth ave., southwest corner....	1	1	1.09	.50	1.26	2.85
Laurel and Lincoln, northeast corner.....	1	1	.36	.13	.....	.49
Main, west side, P. T. south of Amory.....	1	1	1.43	.50	1.26	2.19
Main and McDuffie, southwest corner.....	1	1	1.43	.50	1.01	1.94
Mammoth Road, east side, first angle so. of Willard	1	1	1.43	.50	1.01	2.94
Pine and Silver, southeast corner.....	1	1	1.46	.50	.....	1.87
Pine and Silver, northeast corner.....	1	1	1.46	.50	.....	1.96
Salmon and Union, northwest corner.....	1	1	1.43	.50	1.26	3.19
Spruce and Wilson, southwest corner.....	1	1	1.43	.50	1.26	3.19
Union and Webster, northeast corner.....	1	1	1.59	.75	1.01	3.35
	6	2	16	16	\$6.90	\$21.09
			\$75.62	\$13.64		\$117.25

\*Removed on account of construction work.  
 †Old bound.

Cost of concrete bounds, \$0.50 each.  
 Cost of granite bounds, \$1.25 each.  
 Cost of team, \$0.20 per hour.  
 Average cost of 16 granite bounds, including setting, \$3.37.  
 Average cost of 32 bounds, including setting, \$3.48.

Concrete bounds set.....	2
Granite bounds set.....	16
Bounds reset .....	14
<b>Total bounds set.....</b>	<b>32</b>
Granite bounds on hand January 1, 1913.....	4
Granite bounds delivered during 1913.....	12
Granite bounds on hand January 1, 1914.....	4
Concrete bounds on hand January 1, 1914.....	1
Old granite bounds on hand January 1, 1914.....	1

TABLE No. 29.  
COST RECORD—FIELD WORK (Levels for Profile). OFFICE WORK  
(Plans and Profiles).

Location.	Limits.	Dis- tance.	No. of Lines.	Total Dis- tance.	FIELD WORK.		OFFICE WORK.				
					Labor.	Auto or Team.	Total.	Labor.	Stock.	Total.	Total Cost.
Adams, North .....	Carpenter to Trenton.....	500	5	2,500	\$2.85	\$1.00	\$3.85	\$1.76	\$0.05	\$1.81	\$5.66
Amherst .....	Highland to Hilton.....	290	3	870		.75	2.94	1.10		1.13	4.07
Appleton .....	Elm to Chestnut.....	670	5	3,350		.50	2.72	2.42	.05	2.47	5.69
Appleton, West .....	Elm, westerly .....	300	5	1,500		1.09	2.00	.66	.03	.69	1.98
Appleton, West S. B. ....	Elm, westerly .....	250	3	750		1.09	1.29	.88	.03	.91	2.20
Batchelder avenue.....	Hanover to Hayward.....	700	3	2,100		3.80	4.50	1.32	.05	1.37	5.87
Belmont .....	Hanover to Amherst.....	420	5	2,100		1.80	2.80	1.54	.03	1.57	4.37
Boutwell .....	Bremner to Rock Rimmon ..	650	3	1,950		3.44	4.44	1.68	.10	1.78	6.22
Brook .....	Beech to Maple.....	590	3	2,320		2.71	3.71	1.76	.03	1.79	5.50
Buzzell .....	Bridge to East High.....	380	3-7	1,900		2.17	4.0	1.10	.03	1.13	3.70
Byron & Woodbury.....	Second to B. & M. R. R. ....	3,040	3	9,120		25.84	34.34	9.43		10.43	44.47
Calef road.....	Elmwood avenue to south of P. G. C. gate.....	2,800	5	14,000		11.90	15.65	3.52	.24	3.76	19.41
Candia road.....	Londonderry turnpike, westerly .....	1,100	3	3,300		8.15	8.75	2.20	.10	2.30	11.05
Cedar south back.....	Maple to Lincoln.....	600	3	1,800		1.45	2.33	...	...	...	2.33
Cedar south back.....	Chestnut to Pine.....	330	3	990		2.14	2.89	.88	.03	.91	3.80
Central, West .....	Elm to Franklin.....	320	7	2,240		1.90	3.5	2.25	.05	2.25	4.50
Chestnut .....	Webster to Appleton.....	280	5	1,400		1.72	2.22	.88	...	.88	3.10
Clarke .....	Elm to Chestnut.....	720	5	3,600		3.73	4.98	1.54	.10	1.64	6.62
Conant .....	Montgomery to Wason.....	650	1	650		40.48	53.48	4.40	.10	4.50	57.98
Concord .....	Hall to Belmont.....	410	5	2,050		2.17	2.57	1.76	.03	1.79	4.36
Concord .....	Beech to Ash.....	320	6	1,920		2.60	3.38	1.76	.03	1.79	5.17
Delaware avenue.....	Hanover to Bridge.....	2,300	3	6,900		6.88	8.88	4.40	.22	4.62	13.50
Elm .....	Clarke to Carpenter.....	1,250	6	7,500		12.86	17.11	5.28	.12	5.40	22.51
Elm east back.....	Valley to Merrill.....	1,270	3	810		1.13	1.00	...	...	...	2.13
Forest .....	Sylvester to Mast.....	1,100	3	3,300		2.12	3.92	2.20	.10	2.30	6.22
Greenic .....	Elm to Franklin.....	320	7	2,240		1.91	3.5	2.26	.05	2.25	4.51
Green south back.....	Pine east back to Beech ..	875	3	2,625		1.62	2.12	1.80	.10	1.90	4.02
Grove south back.....	Pine east back to Beech ..	875	3	2,625		1.62	2.12	1.84	.10	1.94	4.06
Grove south back.....	Wilson to east of Hall.....	680	3	2,040		2.72	4.0	1.10	.05	1.15	4.27
Hall .....	Hanover to Manchester.....	250	6	1,500		2.71	3.71	3.20	.03	3.23	5.94
Hanover .....	Hall to Beacon.....	900	5	4,500		5.84	7.84	3.20	.12	3.32	11.16





TABLE No. 29.—*Concluded.*  
 COST RECORD—FIELD WORK (Levels for Profile). OFFICE WORK  
 (Plans and Profiles).

Location.	Limits.	Dis- tance.	No. of Lines.	Total Dis- tance.	FIELD WORK.			OFFICE WORK.			Total Cost.
					Labor.	Auto or Team.	Total.	Labor.	Stock.	Total.	
Union east back.....	North to Webster.....	600	3	1,800	3.36	1.75	5.11	1.32	.05	1.37	6.48
Wallace .....	Winter, south and west..	110	2, 3	260	2.17	.40	2.57	1.32	.03	1.35	3.92
William .....	Mast to Milford.....	1,000	3-5	3,750	3.80	.70	4.50	2.20	.10	2.30	6.80
		64,050		233,915	\$350.46	\$104.41	\$454.87	\$205.37	\$7.30	\$212.67	\$667.54

TABLE No. 30.  
COST RECORDS—MISCELLANEOUS ORDERS.

No. of Orders.	Location and Description.	By Whom Ordered.	FIELD WORK.			OFFICE WORK.			Total Cost.
			Labor.	Auto or Team.	Stock.	Total.	Labor.	Stock.	
4	Grades (curbs) .....	Office .....	\$20.12	\$5.35	\$0.81	\$26.28	.....	.....	\$26.28
1	Grades (miscellaneous) .....	Office .....	1.43	.50	.....	1.93	.....	.....	1.93
93	Grades (sidewalk) .....	Abutters .....	227.11	73.14	4.79	315.04	.....	.....	315.04
5	Grades (sidewalk) .....	Office .....	15.25	3.50	.28	19.03	.....	.....	19.03
23	Grades (sidewalk) .....	Office .....	37.88	10.80	.77	49.45	.....	.....	49.45
1	Levels (miscellaneous) .....	Robie Const. Con. Co. ....	4.35	.80	.....	5.15	.....	.....	5.15
10	Levels (miscellaneous) .....	City Solicitor .....	180.81	73.35	1.54	255.70	\$11.00	\$0.20	\$11.20
1	Lines and Grades (curbs) .....	Office .....	1.63	.30	1.10	2.03	.....	.....	2.03
1	Lines and Grades (sewers) .....	Abutters .....	1.09	.20	.01	1.30	.....	.....	1.30
1	Lines and Grades (sewers) .....	Abutters .....	1.60	1.50	.....	3.10	.....	.....	3.10
1	Location (corner) .....	Office .....	4.06	1.50	.03	5.59	.....	.....	5.59
1	Measurements (miscell.) .....	Office .....	5.59	1.50	.12	7.01	.....	.....	7.01
2	Petitions (miscellaneous) .....	Abutters .....	.....	.....	.....	.....	3.79	.....	3.79
10	Plans (numbering) .....	Office .....	41.98	12.45	.41	54.84	3.37	.....	3.37
2	Street Lines (miscellaneous) .....	Abutters .....	7.17	2.50	.12	9.79	.....	.....	9.79
16	Street Lines (miscellaneous) .....	Office .....	122.80	45.00	.75	168.55	.....	.....	168.55
1	Surveys (miscellaneous) .....	Office .....	.....	.....	.....	.....	.....	.....	.....
10	Surveys (miscellaneous) .....	Office .....	.....	.....	.....	.....	.....	.....	.....
			\$682.87	\$232.19	\$9.73	\$924.79	\$18.16	\$0.20	\$18.36
									\$943.15

TABLE No. 31.

## COST RECORDS—STREET SIGNS.

No. of Signs.	Labor.	Auto.	Team.	Stock.	Total.
45	\$14.46	\$8.15	\$0.32	\$25.65	\$48.58
45	\$14.46	\$8.15	\$0.32	\$25.65	\$48.58

Name of street painted on both sides of sign, sign secured in cast iron hangers by two nails and hangers fastened by four nails to trees, wooden electric light poles, wooden trolley poles and telephone poles. (Stock includes one sign, one sign hanger and six nails.)

Average cost of labor per sign for 45 signs.....	\$0.3213
Average cost of auto per sign for 41 signs.....	0.1987
Average cost of team per sign for 4 signs.....	0.0800
Average cost of stock per sign for 45 signs.....	0.5700
Average cost per sign for 45 signs.....	1.079

TABLE No. 32.  
COST RECORD—STREET NUMBERS.

No. of orders.	Labor.	Team.	Auto.	Stock	Total.
428	\$47.54	\$3.65	\$7.07	\$34.03	\$92.29
428	\$47.54	\$3.65	\$7.07	\$34.03	\$92.29

TABLE No. 33.  
COST RECORD—CEMETERIES.

No. of Orders.	LOCATION.	OFFICE WORK.		FIELD WORK.		Total cost.
		Labor.	Stock.	Labor.	Team.	
8	Pine Grove cemetery.....	\$11.15	\$0.32	\$79.57	\$11.10	\$103.14
			\$11.47		\$90.67	

TABLE No. 34.  
COST RECORD—BOARD OF PUBLIC WORKS.

No. of order.	DESCRIPTION OF WORK.	Labor.	Team or Auto	Stock.	Total cost.
3	Location, cesspools.....	\$ 7.20	\$1.80	\$ .25	\$9.25
7	Lines and grades (miscellaneous).....	22.06	7.75	.16	29.97
40	" " (streets).....	380.93	117.00	31.12	529.05
4	" " (paving).....	15.36	5.50	1.07	21.93
14	" " (sidewalk).....	52.37	15.15	1.67	69.19
5	" " (sidewalk and curb) ....	23.31	5.75	1.84	30.90
10	" " (gutters).....	26.87	8.70	1.63	37.20
47	" " (sewers).....	154.56	44.40	.38	199.14
71	" " (curbs).....	254.52	79.00	16.99	350.51
11	" " (corner curb).....	35.51	11.40	1.94	48.85
4	" " (curbs and corner curb)	23.67	7.45	1.76	32.88
4	" " (culverts).....	26.14	9.25	.71	36.10
16	" " (Kelleys Falls bridge)..	167.43	57.25	.41	225.09
236		\$1,189.73	\$370.40	\$59.93	\$1,620.06

The cost of sewer preliminary field and office work, location field and office work, and finished plans is as follows:

DESCRIPTION.	Labor.	Team.	Stock.	Total Cost.
Location of field work.....	\$154.36	\$44.40	\$0.33	\$199.14
Finished plans (estimated)*.....	100.00	.....	25.00	125.00
	\$254.36	\$44.40	\$25.33	\$324.14

Expended by the Board of Public Works in constructing sewers, \$20,555.98 (see table No. 23).

Cost of engineering work, \$324.14, or .0157 percent.

\*This work is done the first of the year following construction.

TABLE No. 35.  
SUMMARY OF TABLES Nos. 29, 30, 31, 32, 33 AND 34.

NO. OF TABLES.	No. of orders.	FIELD WORK.			OFFICE WORK.			Total Cost.	
		Labor.	Team.	Stock.	Total.	Labor.	Stock.		Total.
29.....	118	\$350.46	\$104.41	.....	\$454.87	\$205.37	\$7.30	\$212.67	\$667.54
30.....	182	682.87	232.19	\$ 9.73	924.79	18.15	.20	18.36	943.15
31.....	45	14.46	8.47	25.65	48.58	.....	.....	.....	48.58
32.....	428	47.54	10.72	34.03	92.29	.....	.....	.....	92.29
33.....	8	79.57	11.10	.....	90.67	11.15	.32	11.47	102.14
34.....	236	1,189.73	370.40	59.33	1,620.06	.....	.....	.....	1,620.06
	1,047	\$2,346.63	\$737.29	\$129.34	\$3,231.26	\$234.68	\$7.82	\$242.50	\$3,473.76

To His Honor the Mayor, the board of aldermen, the gentlemen of the common council, and the various committees with whom in the performance of my duties I have come in contact, I wish to express my appreciation of the assistance and support you have rendered to me during the year.

My acknowledgements are due the gentlemen of the Board of Public Works for their courtesy, consideration and coöperation in matters in which we were mutually engaged.

SAMUEL J. LORD,  
*Engineer.*

### General Statistics.

CITY OF MANCHESTER, N. H., January 1, 1914.

Manchester is situated on the east and west banks of the Merrimack river, in latitude  $40^{\circ} 00' 04.3''$  north, longitude  $71^{\circ} 26' 21.1''$  west (final of Weston observatory), at an elevation above sea level of from about 100 feet to about 530 feet.

Zero of the city base is 100.934 feet above sea level.

City Hall step is 108.520 feet above zero of city base, or 209.494 feet above sea level.

#### VARIOUS ELEVATIONS ABOVE SEA LEVEL.

Coping stone of high service reservoir, 500.924 feet.

Rock Rimmon, highest point, 390.56 feet.

Lake Massabesic, 250 feet.

Granite and Main streets about 163 feet, South Main and Milford about 178 feet, Milford and Rochelle avenue about 196 feet, Amory and Main about 213 feet, Amory and Notre Dame avenue about 236 feet, Elm and Carpenter about 288 feet, Highland and Lowell about 426 feet, Hanover and Beacon about 354 feet, Lake avenue and Massabesic about 251 feet, Elm and Brown avenue about 211 feet, Cypress and Vinton about 340 feet, Bridge and Hall about 326 feet.

Greatest extent of city, north and south, 11.5 miles; east and west, 5.3 miles.

Merrimack river frontage, 10 miles.

Area of city including those portions covered by water approximately 21,700 acres, or 33.906 miles.

#### AREA OF WARDS.

Ward 1, 2,755 acres; Ward 2, 364 acres; Ward 3, 284 acres; Ward 4, 296 acres; Ward 5, 8,814 acres; Ward 6, 3,997 acres; Ward 7, 970 acres; Ward 8, 260 acres; Ward 9, 3,960 acres.

Most thickly settled ward, Ward 4; most sparsely settled ward, Ward 5.



## AREA OF PARKS AND COMMONS.

Derryfield park, 68 acres; Rock Rimmon park, 45 acres; Stark park, 30 acres; Oak Hill Reservoir park, 25.65 acres; West Side park, 9.76 acres; Prout park, 3.70 acres; Simpson park, 0.56 acres; East Side park, 0.44 acres; Merrimack common, 5.89 acres; Concord common, 4.48 acres; Park common, 3.49 acres; Hanover common, 3.00 acres; Parker common, 2.61 acres; Tremont common, 2.25 acres. Total area of parks and commons, 206.91 acres. Valuation, \$700,000.00.

## WATER AREA.

Massabesic lake (entire), 2,400 acres (water shed 40 square miles); area in city, 500 acres; Long pond, 23.250 acres; Mosquito pond, 21.855 acres; Nutt's pond, 19.095 acres; Stevens' pond, 16.276 acres; Merrimack river, 550 acres; Piscataquog river, 50 acres.

Total water area in city, 1,580.476 acres.

Area taxed, approximately 15,000 acres.

Valuation, real estate and personal property, \$69,109,145.00; tax rate, 1913, \$1.52.

## STREETS AND ROADS.

Unpaved streets, not including back streets, lanes or alleys, 122.34 miles.

Paved streets including such back streets and lanes as are paved, 8.61 miles.

Outlying or country roads, 72.66 miles.

Total miles of streets and roads, 203.61 miles.

## PAVED STREETS.

Granite block, cement joints,	1.96 miles,	43,510 square yards
Granite block, sand joints,	2.29 miles,	25,093 square yards
Granite block, sand joints, old,	0.46 miles,	11,062 square yards
Tar concrete,	3.49 miles,	56,433 square yards
Tar macadam,	0.10 miles,	1,580 square yards
Hassam,	0.07 miles,	1,636 square yards
Wood block,	0.24 miles,	2,873 square yards
Total,	*8.61 miles,	142,187 square yards

Common width of streets, 50 feet; widest street, 100 feet; narrowest street, 20 feet; longest street, city proper, 4.3 miles; suburban, 5.3 miles.

Sidewalks on streets, approximately 200 miles.

Ninety miles of streets have shade trees.

\*Including gutters on paved streets.

## BRIDGES.

LOCATION.	Length in feet.	Width of roadway.	Number of walks.	Width of walks.	Material.	Arches or spans.
Amoskeag.....	765.5	20	1	5.5	Wood.....	3
Bridge street at upper canal.....	57	22.5	2	7	Iron.....	1
Bridge street, McGregor and approaches.....	1,085	23	2	8	Steel.....	3
Brown avenue at Goffe's Falls.....	30	34	2	8	Steel.....	1
Brown avenue at Cheney's.....	6	16			Wood.....	1
Brown avenue at Little Colhas.....	16	20			Wood.....	1
Cohas avenue at Great Colhas.....	36	30.5			Stone.....	2
Derry road at Great Colhas.....	38	20			Wood.....	1
Derry road near Colhas avenue.....	33	20			Steel.....	1
Derry road near town line.....	33	20			Steel.....	1
Dunbarton road at Black brook.....	25	17.5			Wood.....	1
Elm street at railroad.....	89	29.5	1	4.5	Wood.....	1
Front street at Black brook.....	16.5	33			Wood.....	1
Granite street at lower canal.....	55	40	2	10	Steel.....	1
Granite street at river.....	468	37.5	2	8	Steel.....	4
Granite street at North Weare railroad.....	56	37.5	2	6	Iron.....	1
Island Pond road at outlet of lake.....	46	16			Steel.....	1
Main street at Piscataquog river.....	90	34	2	8	Stone.....	2
Mammoth road at Great Colhas.....	38	18			Wood.....	1
Mammoth road near town line.....	14	20			Wood.....	1
Merrill road at Manchester & Lawrence railroad.....	61.5	12			Wood.....	1
Mill road at Harvey's mill.....	59	24			Steel.....	1
Parker street at North Weare railroad.....	53	24	2	6	Iron.....	1
Second street at Piscataquog river.....	62	32.5	2	8.75	Steel.....	1
Second street at Piscataquog river.....	127	32.5	2	8.75	Steel.....	1
Webster road at waterworks dam.....	100	17.5			Wood.....	5
Weston road east of D. Connor's.....	6	16			Wood.....	1
Willow street at Great Colhas.....	74	24			Steel.....	3

## TREES IN CITY.

Number and kind of trees on streets, exclusive of those on the Amoskeag and Stark corporations, 14,701, divided as follows: Elm, 4,345; maple, 7,694; oak, 760; poplar, 971; others, 931.

In public and parochial school yards: Elm, 72; maple, 278; oak, 9; others, 65; total, 424.

In parks, commons and City Farm: Elm, 578; maple, 1,284; oak, 70; poplar, 67; others, 12,201; total, 14,200.

Total number of trees of all kinds, 29,325.

## CEMETERIES.

Four cemeteries belonging to the city have a combined area of 292 acres; 11 private cemeteries, about 75 acres.

## SEWERS.

Akron, 70.149 miles; Portland, old, 0.896 miles; Portland, new, 7.411 miles; earthen, 0.603 miles; cement, 5.365 miles; brick, 8.816 miles; cast iron, 0.135 miles; steel riveted, 0.09 miles; total, 93.465 miles.

Largest sewer, 50 inches by 75 inches; smallest, 6 inches.

## RAILROADS.

Electric railways, double counted twice, city lines, 41.70 miles; suburban lines, 22.69 miles.

Steam railroads, double track, about 8.5 miles; single track, about 11.5 miles exclusive of sidings and tracks in railroad yards.

## STREET LIGHTS.

Electric arc, 599; tungsten, 376; gas, 32; others, 4; total, 1001.

Number of electric arches over street, 10.

## CITY BUILDINGS.

Schoolhouses, brick, 26; wood, 2; total, 28; valuation, \$900,000. Engine houses, 10; valuation, \$200,000. Other public buildings, 10; valuation, \$620,000.

Churches, brick, 15; wood, 28; stone, 1; total, 44.

Postoffices, stone, 1; sub-stations, 16.

Police stations, 2; railroad stations, 6.

## FIRE DEPARTMENT.

Steam fire engines, 7; chemical, 1; auto chemical, 1; combination wagons, 2; hose wagons, 9; ladder trucks, 4; auto ladder trucks, 2; hose carriages, spare, 2; chief's auto, 1.

Number of permanent men in department, 60; call men, 121; horses, 55.

Valuation of equipment, including fire-alarm telegraph, \$140,779.

POPULATION.

Population, estimated, January 1, 1914, 80,000.

**REPORTS**  
**OF THE**  
**TRUSTEES OF CEMETERIES AND CEMETERY**  
**FUNDS.**



## REPORTS OF THE TRUSTEES OF CEMETERIES AND CEMETERY FUNDS.

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### Report of Subtrustees of Pine Grove Cemetery.

*To the Trustees of Cemeteries and the Board of Mayor and Aldermen:*

In accordance with the instructions of the subtrustees of the Pine Grove Cemetery the following is submitted as their report for the year 1913:

The Pine Grove Cemetery and the Merrill Yard have been cared for during the year in the customary manner under the general superintendence of John H. Erskine, who with each succeeding year of management and experience becomes a more valuable public servant.

As to the Merrill Yard, the small appropriation—only one hundred dollars—precludes any extensive scheme of work, but the grass was cut, the walks and driveways kept clean and the shrubbery trimmed. Two lots were sold and one interment made in the yard. The receipts for labor and lots sold were \$77.10, which were paid into the city treasury, so that the net cost for the maintenance of the Merrill Yard for the year was \$22.90.

At the Pine Grove Cemetery the usual work of caring for the lots and watering and clipping the grass was done, the borders were attended to and many shrubs and flowers planted. This regular routine work uses up the larger portion of the appropriation, but each year some extraordinary expense has to be incurred and some permanent improvements begun or extended.

In 1913 under the last mentioned head may be named the following items. The iron fence, the chapel, the tool and storage houses, the superintendent's residence, and the greenhouses were all painted. The southerly end of the grounds was enclosed with a wire fence and an iron gate set at the extreme point. Cement corner bounds were set in Spruce lawn, and the lawn around the Clough mausoleum and the rockery was completed and planted with vines and shrubs. A pair of work horses were purchased at a cost of \$550.00. There were laid one hundred and fifty feet of two-inch galvanized water pipes and two hundred and ninety-two feet of one-inch pipe. Two drinking fountains were bought to be set next year, and eight new hydrants were set and nine old ones repaired. A new filing cabinet and cards and nine hundred feet of sewer pipe were purchased. Concrete driveways were recovered to the extent of six hundred and thirty square

yards. These items cost over \$2,200.00. The appropriation for the year was \$19,000.00. The total receipts paid into the city treasury were \$13,940.18, so that the cost of the superintendence and ordinary care and maintenance was less than \$2,900.00 for the year.

Besides these extraordinary expenses and as a part of the ordinary care and maintenance Spruce lawn was completed and seeded to grass; the lawn about the Carpenter mausoleum and a section around the Weston mausoleum were covered with clay and loam and are ready to seed to grass in the spring; all weeding in the grounds was done; considerable expense was incurred in preparing a section north of Spruce lawn, the loam was removed and piled and a large amount of fill drawn in; in regard to private lots, about one thousand square feet of paths and borders were brought up to grade and seeded; the lawn around the toolhouse was spaded and reseeded, and a barberry hedge set next to the driveway; about twelve hundred square yards of Laurel, Chapel and Birch avenues were redressed with crushed stone and treated with calcium chloride, and the rest of the avenues were sprinkled and kept rolled; the greenhouses were carried on; many dead trees were removed and twenty-one new ones were planted; the hedge on Brown avenue was extended over three hundred feet; over six hundred and fifty shrubs and roots were planted, many being from the nursery in the grounds, for which one thousand four hundred and fifty little trees were purchased and planted. The average number of men employed during the year was twenty.

On the lots under perpetual and semi-perpetual care the usual work of watering and cutting the grass, cleaning the stone work, etc., was done, and many lots required to be top dressed. From the balance of the donation made by the Trustees of the Cemetery Fund in 1912, three hundred and forty-four tons of Salem broken stone and one hundred and thirty-four tons of Milford stone were purchased, and eighteen hundred square yards on Riverside avenue and the avenue around the Carpenter mausoleum were macadamized. No donation was made from the Cemetery Fund in 1913.

During the year there were 379 interments, 16 being in the single grave section and 116 in the Field of Manesquo, making a total of interments to December 31, 1913, of 10,254. Removals were made, from one grave to another 19, to other cemeteries 4, and from other cemeteries 8. Foundations were set for 81 monuments, 117 markers and one mausoleum. Cement vaults set numbered 33. During the year 82 lots were sold, making the total number sold to December 31, 1913, 3,406. In the single grave section 15 graves were sold, and 6 on Swedish lawn, making 145 in the single grave section and 201 on Swedish lawn to December 31, 1913. There are now 259 lots plotted and ready for sale, to wit.: 55 on Chapel lawn, 4 on Lakeside lawn and 131 on Spruce lawn, all under perpetual care; 4 on Hillside lawn and 52 on Birch lawn under semi-perpetual care; 4 on Acacia lawn



with no provision for care, and 9 on Swedish lawn, subject to the original contract. There remain unsold 33 graves in the single grave section and 389 on Swedish lawn.

There are under perpetual care 1,003 lots, and 512 under semi-perpetual care, the cost of maintaining which is borne by the Cemetery Fund, and in 1913 the owners of 426 ordinary lots paid for the care of their lots, so that 1,941 out of 3,406 lots sold are maintained in good condition with no expense to the city beyond superintendence. As has been frequently stated in former reports, all lots are now sold with provisions for either perpetual or semi-perpetual care, including keeping the lots grassed, watered and clipped, and the receipts to the Cemetery Fund for those purposes in 1913 were \$12,726.55. This was in addition to the receipts paid into the city treasury for water and care of lots, interments, removals, labor, use of chapel, sale of flowers, rent of houses and sundries, amounting to \$13,940.18. The total amount of the Cemetery Fund on December 31, 1913, was \$166,493.92, the income of the same being largely unexpended.

The thanks of the subtrustees are hereby extended, and the thanks of every citizen of Manchester who takes any interest in Pine Grove Cemetery are bespoken, to the mayor and aldermen and the common council for the appropriation in 1913 of \$6,700.00 for the purchase of the George A. Hackett farm, which had been recommended by the subtrustees over a year ago. This farm consists of fifty-two acres of land peculiarly adapted to cemetery purposes, and upon it is a house which will rent readily until the land is needed for other purposes. Much loam and sand to be used in the preparation of lawns are available and the purchase is in every way desirable, and, taken together with the other land purchases of recent years, gives to the city all the land that can be used for the Pine Grove Cemetery for a good while, and, indeed, no other land at all is available.

For the coming year the subtrustees have in mind no plan for any extensive development of new work, but they recommend the appropriation of money enough to build another greenhouse and potting shed, which will cost about \$2,000.00. The experience with the existing greenhouse proves its great pecuniary value. Every year many hundreds of dollars are saved over the cost to buy plants and shrubs, and from the sale of flowers alone \$398.00 were received in 1913. The demand upon the present greenhouse is too great for its capacity, and an additional one is imperatively needed.

Respectfully submitted,

EDWIN F JONES,

*Clerk.*

**Report of Subtrustees of Valley Cemetery.**

*To the Trustees of Cemeteries and Board of Mayor and Aldermen, Manchester, New Hampshire:*

It has been estimated that there are buried in the Valley Cemetery fifteen thousand bodies, while for the last few years the number of interments have not averaged fifty each year. And our city appropriated for the year just ending (namely, 1913) the sum of five thousand dollars for the care thereof. This does not mean, however, that the cost to the city was this whole amount of five thousand dollars, for while it was all expended with the exception of a few dollars in the care of the cemetery, there was also turned in to the city from the cemetery for tomb fees, care of lots, etc., the sum of nineteen hundred and thirty-five dollars, so that the actual expense of maintenance for the year 1913 was three thousand and sixty-five dollars, nearly the same amount as in previous years, and an exceedingly small sum for a cemetery of this size and nature. And this amount has all been used in what might be termed up-keep work, for there is no opportunity for the purchase of additional land, nor is there any unimproved land, and no opportunity for new work. This up-keep work consisted of building (at a cost of about two hundred dollars) the new concrete bridge across the lower end of the brook, the same being about fifteen feet long and six feet wide; the recovering with cement of the front side and top of the flight of stone steps, some eighty, the same leading from the lower end of the west bank to the brook, so that we now have a cement flight of steps more harmonious with their surroundings and easier of ascent. The curbing (also of cement) along the side of the lower driveway has been extended during the year some three hundred and fifteen feet, and with the top dressing of crushed stone on this driveway has added much not only to its looks, but increased its usefulness as well. Eight thousand seven hundred and fifty feet of paths have been graded, and two thousand eight hundred feet of lawns graded and seeded, where necessary. Most of this work having been done on the southerly side of the cemetery, and all under the guidance of our excellent superintendent, Eugene C. Smith, who has never had in his employ over eight men at any one time, and a large portion of the year only three. He has also had to arrange for the placing of twenty-five bodies in the tomb, and the interment of forty-three bodies. The entire amount expended for labor during the year just ending being three thousand nine hundred and twenty-seven dollars. The superintendent has also set out or planted some two hundred and fifty shrubs and trees, as the trustees are continuing the practice which they began several years ago of adding each year something in the ornamental line that would have a permanent value.

One of the methods of increasing the city's assets is by the enlargement of its permanent Cemetery Fund, and although our Valley

Cemetery is not ranked as a large one, the growth from the number of lots placed under perpetual care has been, as in the previous years, most gratifying, eleven new lots having been placed under perpetual care during the past year alone, making a total now in this cemetery of two hundred and eighty. The number under annual care also compares favorably with the past years, being two hundred and five for 1913.

The trustees are pleased to be able to report that the one feature of this cemetery which for a number of years has been the cause of much annoyance to them, namely, the bad condition of the southerly end of the Willow street side, seems now in a fair way to be remedied. Owing to the thoughtfulness of the constant friend of the cemetery, Mrs. Moody Currier, in providing a portion of the funds and a willingness on the part of the city to coöperate, a new retaining wall with a culvert over the brook is to be built this coming spring and summer, the whole to be surmounted with a suitable and proper iron fence, thus converting what has been practically used for a dumping ground into an attractive street with a handsome wall, fence and surroundings. The trustees duly appreciate Mrs. Currier's kindness, and desire to place themselves publicly on record in this acknowledgement thereof.

Respectfully submitted in behalf of the trustees,  
 FRANK C. LIVINGSTON,  
*Clerk.*

**Report of the Trustees of Amoskeag Cemetery for the Year 1913.**

Appropriations for the year 1913.....	\$400.00
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EXPENDITURES DURING THE YEAR.

For labor.....	\$233.00	
Supplies .....	29.50	
Water .....	24.00	
Horse hire.....	6.00	
	—————	\$292.50
Unexpended balance.....		107.50
		—————
		\$400.00

There have been five burials and one removal of body to Pine Grove Cemetery during the year.

The receipts for the year amounted to \$18.00.

GEORGE C. HARWOOD,  
*Superintendent, for the Trustees.*

## TREASURER'S REPORT.

*To the Trustees of Cemeteries:*

I herewith present to you the annual report of money received for the year ending December 31, 1913.

### Pine Grove Cemetery.

	Interest.	Price of Lots.	Permanent Fund.	Total.
Emma E. Laraba.....		\$31.20	\$85.80	\$117.00
A. A. Mooney.....		38.11	104.81	142.92
Robert T. Little.....	\$14.72	43.18	118.76	176.66
Amelia Stache and Carl Prasse .....		32.38	89.06	121.44
George E. Muzzy.....		49.40	135.85	185.25
Lucy M. Clark.....		31.40	86.35	117.75
Argyle Thomas Johnson..	2.35	49.40	135.85	187.60
Jed. B. Mack.....		39.41	108.39	147.80
Jennie N. Castor.....	9.48	68.76	189.09	267.33
Harriet C. Curtis.....		36.13	99.35	135.48
Lucy A. Bartlett.....	6.00	116.39	349.16	471.55
Charles T. Lawrence.....		64.00	256.00	320.00
Albert Baker Chase and Frederick E. McLaren..		62.33	249.31	311.64
K. Florence Cheney.....		39.73	109.26	148.99
John M. Langley.....	10.00	36.45	100.23	146.68
Moses C. Morey.....		34.00	93.50	127.50
Almira S. Page and Myrah L. Ballou.....		36.42	100.16	136.58
Harrison P. Baldwin.....		37.37	102.77	140.14
Henry J. Rogler.....	1.46	36.13	99.35	136.94
James M. Butler and Car- roll A. Currier.....		55.10	151.53	206.63
Jessie J. Brice.....		39.00	107.25	146.25
Herman Christophe.....	30.58	70.57	282.28	383.43
Effie L. Kent.....	1.30	37.62	103.47	142.39
Estate of Nellie M. Cram..	6.76	69.69	278.77	355.22
Wm. E. Cowie and Jas. R. Ruitter .....		57.23	157.41	214.64
Adolf A. Wolfe.....	1.17	34.00	93.50	128.67
Anna Schelzel.....		30.15	82.91	113.06

	Interest.	Price of Lots.	Permanent Fund.	Total.
Estate of Richard Gross- man .....		\$44.76	\$123.11	\$167.87
Minnie L. Dwinell.....		71.64	286.55	358.19
W. P. Goodman.....		74.08	296.31	370.39
Ella M. Allen.....	\$1.50	30.00	82.50	114.00
Wm. H. Bangs.....	3.43	28.93	79.55	111.91
Ralph B. Folsom.....	2.63	36.13	99.35	138.11
Marcia M. Moore.....		39.01	107.30	146.31
Annie J. Gillan.....		36.12	99.36	135.48
Harriet M. Colby.....		35.33	97.16	132.49
Frances M. Warren.....		36.12	99.36	135.48
Emil G. Dietsch.....		40.00	110.00	150.00
Ellen J. Ferris.....		33.23	91.39	124.62
George A. Leighton.....		400.00	1,600.00	2,000.00
John F. Gillis.....		42.00	115.50	157.50
Albert M. Hergt.....		42.00	115.50	157.50
Mabel C. Hanson.....		27.30	75.07	102.37
Charles E. Lamper.....		42.00	115.50	157.50
F. Plummer Foss and Geo. W. Swallow.....		54.23	149.14	203.37
Henry C. Morrill.....		39.06	107.40	146.46
Oscar B. Laport.....		65.00	260.00	325.00
John J. Driscoll.....		28.66	78.81	107.47
Richard H. Grossman.....		36.13	99.35	135.48
John Muir .....		74.44	204.71	279.15
Herman D. Hazen.....		42.00	115.50	157.50
Etta B. Morrill.....		48.16	132.44	180.60
Samuel C. Jellis.....		40.00	110.00	150.00
Silas I. Sprague.....		22.40	61.60	84.00
Emile Ruelke.....		20.00	55.00	75.00
Mary Johnson.....		43.27	119.00	162.27
Frank G. Miller.....	.60	30.80	38.50	69.90
Chas. Daniel Little and Fannie May Little.....		28.60	35.75	64.35
Abbie D. Stone.....		23.10	28.87	51.97
Bernhart Morgenstern.....		25.31	31.64	56.95
Florence L. McGown.....		25.30	31.64	56.94
Grant Flower.....		32.10	40.12	72.22
Abbie W. Chadwick.....		17.60	22.00	39.60
Pauline W. Willey.....		17.60	22.00	39.60
Martha Barry Swallow.....		28.60	35.75	64.35
Fred H. Balch.....	8.48	39.00	48.75	96.23
Peter Fortin.....		30.80	38.50	69.30
Laura P. Wolf.....		23.75	29.68	53.43
James Ashton.....		23.10	28.87	51.97

ANNUAL OFFICIAL REPORT.

	Interest.	Price of Lots.	Permanent Fund.	Total.
George S. Merrill.....		\$28.39	\$35.49	\$63.88
Sarah A. Titus.....		29.21	41.02	70.23
Frank Butterworth and John W. Grindrod.....		35.29	4.11	79.40
Lewis A. Wells.....		23.10	28.87	51.97
Edward S. Perry.....		24.09	30.10	54.19
Bridget Williams.....		33.60	42.00	75.60
Albert J. Dow.....		34.12	42.65	76.77
George H. Luce.....		36.78	45.98	82.76
Eva M. Cate.....		48.36	60.44	108.80
John E. Chesley.....		44.81	56.01	100.82
Frank E. Davis.....		26.00	32.50	58.50
Jane Taylor.....		10.00	8.00	18.00
Frank J. Walker.....		10.00	8.00	18.00
Mrs. Louise Jackson.....		10.00	8.00	18.00
Estate of Edward Brendle .....		10.00	8.00	18.00
Geo. H. Danford.....		10.00	8.00	18.00
Sarah Gourley.....		10.00	8.00	18.00
John A. Demolat.....		10.00	8.00	10.00
Margaret Vieweg.....		20.00	16.00	36.00
Mary C. Ticehurst.....		10.00	8.00	18.00
Thos. F. Dalton.....		10.00	8.00	18.00
Louise M. Mackintosh.....		10.00	8.00	18.00
Rose M. Kimball.....		10.00	8.00	18.00
Margaret A. Dill.....		10.00	8.00	18.00
Sarah J. Rumrill.....		10.00	8.00	18.00

Interest .....	\$100.46			
Price of lots.....		\$3,706.96		
Permanent fund.....			\$9,967.87	
Total receipts, sale of lots				\$13,775.29
J. H. Erskine, superintendent, care of lots.....				10,132.76
				<u>\$23,908.05</u>

CR.

By amount paid to Cemetery Fund:				
Perpetual care lots.....		\$8,956.63		
Partial perpetual care lots.....		891.24		
Single grave section.....		120.00		
			\$9,967.87	
Treasurer's receipts for amount paid to city.....				3,807.42
Superintendent's receipts for amount paid to city.....				10,132.76
				<u>\$23,908.05</u>

**Valley Cemetery.**

E. C. Smith, superintendent, care of lots...	\$1,935.00	
F. L. Allen, treasurer, sale of path.....	15.00	
	<hr/>	\$1,950.00
		<hr/> <hr/>

**Merrill Yard Cemetery.**

J. H. Erskine, superintendent, care of lots..	\$51.00	
F. L. Allen, treasurer.....	26.10	
	<hr/>	\$77.10
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**Amoskeag Cemetery.**

Geo. C. Harwood, superintendent, care of lots.....	\$18.00	
Respectfully submitted,		
FRED L. ALLEN,		
<i>Treasurer Trustees of Cemeteries.</i>		

I hereby certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of cemeteries, and find the same correctly cast and vouched for.

JAMES E. DODGE,  
*City Auditor.*

*To the Trustees of the Cemetery Fund:*

GENTLEMEN—I herewith submit to you the thirty-first annual report of the funds received and expenses paid to January 1, 1914.

**Pine Grove Cemetery.**

Amount of permanent fund January 1, 1913.....	\$153,767.37
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RECEIPTS DURING THE YEAR.

Frank P. Colby.....	\$160.00
Orra Burpee.....	100.00
George K. Haines.....	144.00
Mary A. Watts.....	176.40
George S. Cobb, executor estate of A. Homer	200.00
Eliza C. Perham.....	100.00
Edward Burton.....	144.00

Anna S. Smith, executrix estate of Mrs. John Spencer.....	\$100.00	
Frank S. Pushee.....	144.00	
John L. Pollock, executor.....	240.00	
Edward Loomis.....	144.00	
Lelia A. Brooks.....	103.28	
Andrew and Emma Spence.....	160.00	
Nellie M. Ballow.....	100.00	
John L. Bachelder.....	107.00	
Fred C. Porter, executor.....	100.00	
Catherine Gough.....	100.00	
Mary E. Leach.....	100.00	
Moses G. Johnson, administrator estate of Henry G. Clark.....	100.00	
Theodore Graf, administrator George Graf estate .....	100.00	
Jennie M. Corey.....	136.00	
To receipts transferred from Pine Grove Cemetery:		
Perpetual care lots.....	\$8,956.63	
Partial perpetual care lots.....	891.24	
Single grave section.....	120.00	
		<u>\$12,726.55</u>
Total of fund.....		<u><u>\$166,493.92</u></u>

## CR.

By bonds on hand.....	\$158,750.00	
By cash on hand.....	7,743.92	
		<u>\$166,493.92</u>

## INCOME ACCOUNT.

Income on hand January 1, 1913.....		\$7,550.16
Interest savings banks .....	\$879.05	
Interest savings banks, partial perpetual care lots.....	415.65	
Interest savings banks, single grave section	42.32	
Interest coupons, Manchester Bonds.....	4,677.50	
Interest city of Manchester tax note.....	1,208.88	
Discount on Manchester Bonds purchased..	150.00	
		<u>7,373.40</u>
		<u><u>\$14,923.56</u></u>



EXPENSES PAID DURING THE YEAR.

Veasey L. Morse.....	\$18.00	
J. D. French.....	190.55	
Chas. R. Martin.....	5.15	
W. E. Dunbar & Son.....	120.00	
L. P. Tremblay.....	4.73	
Wood, Stubbs & Co.....	21.00	
Herman B. Neal.....	18.00	
Manchester Rendering Co.....	33.00	
Horace L. Haynes.....	84.10	
Manchester Hardware Co.....	55.00	
E. H. Rollins & Co.:		
Accrued interest paid for \$33,000 4% Wa-		
ter Bonds.....	58.65	
Accrued interest paid for \$7,000 4% Wa-		
ter Bonds.....	12.46	
J. D. French .....	242.50	
J. H. Erskine, superintendent:		
Flowers and flags, Ingram lot.....	12.00	
Charles A. Bailey.....	37.44	
Palmer & Garmon.....	168.25	
A. P. Horne & Co.....	34.35	
J. O. & L. P. Tremblay.....	18.00	
J. H. Erskine, superintendent, care of par-		
tial perpetual care lots and single grave		
sections .....	657.06	
J. H. Erskine, superintendent, care of per-		
petual care lots.....	3,324.00	
Board of Public Works.....	470.74	
Mridget Clune.....	4.00	
		\$5,588.98
Cash income on hand.....		9,334.58
		<u>\$14,923.56</u>

Valley Cemetery.

Amount of permanent fund January 1, 1913..... \$42,517.17

RECEIPTS DURING THE YEAR.

John Cavanaugh, administrator estate of	
Henry Sargent.....	\$126.80
Mrs. Abbie E. Hall.....	118.80
David H. Nutt heirs.....	108.00

Joseph H. Tirrell.....	\$104.80	
Arthur P. Senter.....	144.00	
Cella Eastman, executrix estate of Harvey Egerton .....	105.00	
Mary I. Walker.....	124.80	
Henry S. Bunton.....	100.00	
Ann Augusta Wyman.....	24.00	
Charles J. Hadley, administrator estate of George H. Colby.....	120.00	
		1,076.20
Total of fund.....		\$43,593.37

## CR.

By bonds on hand.....	\$41,700.00	
By cash on hand.....	1,893.37	
		\$43,593.37

## INCOME ACCOUNT.

Income on hand January 1, 1913.....		\$7,272.69
Interest savings bank.....	\$557.64	
Interest coupons, Manchester bonds.....	1,350.00	
Interest city of Manchester tax note.....	302.22	
Discount on Manchester bonds purchased..	37.50	
		2,247.36
		\$9,520.05

## EXPENSES PAID DURING THE YEAR.

W. E. Dunbar .....	\$45.00	
H. L. Haynes .....	16.90	
Pine Grove Cemetery.....	42.50	
John B. Varick Co.....	38.00	
E. H. Rollins & Sons, accrued interest paid for \$10,000 city of Manchester bonds....	17.78	
E. C. Smith, superintendent, care of perpetual care lots.....	1,100.00	
		\$1,260.18
Cash income on hand.....		8,259.87
		\$9,520.05

HANNAH A. CURRIER FUND.

For care of gateway at Valley Cemetery.

Amount of fund January 1, 1913.....	\$500.00
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CR.

By cash on hand.....	\$500.00
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INCOME ACCOUNT.

Income on hand January 1, 1913.....	\$15.19	
Interest savings bank.....	\$20.60	
	_____	\$35.79

GALE FUND INCOME FUND.

Income on hand January 1, 1913.....		\$190.12
Interest savings bank.....	\$7.97	
Income from fund.....	12.12	
	_____	20.09
		\$210.21

Paid E. C. Smith, superintendent, care of Gale tomb.....	\$8.00	
Cash income on hand.....	202.21	
	_____	\$210.21

SPECIAL FUND.

For the care of Oliver Gould lot in Pine Grove Cemetery.

Amount of fund January 1, 1913.....	\$500.00
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CR.

By cash on hand.....	\$500.00
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INCOME ACCOUNT.

Income on hand January 1, 1913.....	\$20.58	
Interest savings bank.....	\$21.00	
	_____	\$41.58

Paid J. H. Erskine, superintendent, for care of lot.....	\$12.00	
Cash income on hand.....	29.58	
	_____	\$41.58

## ANNUAL OFFICIAL REPORT.

## EMILY E. KILLEY FUND.

For care of lot and improvements, Pine Grove Cemetery.

Amount of fund.....		\$2,500.00
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CR.

By cash on hand.....		\$2,500.00
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Merrill Yard Cemetery.

Amount of permanent fund January 1, 1913.....		\$1,487.89
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CR.

By bonds on hand.....	\$250.00	
By cash on hand.....	1,237.89	
		\$1,487.89

INCOME ACCOUNT.

Income on hand January 1, 1913.....		\$465.49
Interest Manchester bonds.....	\$22.50	
Interest bank deposit.....	60.70	
		83.20

\$548.69

Paid J. H. Erskine, superintendent, care of lots .....	\$41.00	
Cash income on hand.....	507.69	
		\$548.69

Respectfully submitted,

FRED L. ALLEN,

*Treasurer of Trustees of Cemetery Fund.*

This is to certify that I have examined the books of account of Fred L. Allen, treasurer of the cemetery funds, embracing the receipts and expenditures for the year 1913, 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 cemetery bonds, Nos. 1, 2, 3, 5, 6, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 22, 23, 24, 26, 28, due 1942, denomination \$1,000 each.....	\$20,000.00
2 city of Manchester 5 per cent cemetery bonds Nos. 1 and 2, due 1942, denomination \$500 each.....	1,000.00
1 city of Manchester 5 per cent cemetery bond, No. 3, due 1942.....	50.00
16 city of Manchester 3½ per cent city bonds, Nos. 21, 22, 23, 71, 72, 73, 74, 75, 91, 92, 94, 95, 96, 97, 98, 99, due April 1, 1919, denomination \$1,000 each.....	16,000.00
2 city of Manchester 4 per cent improvement bonds, Nos. 1, 2, due April 1, 1916..	2,000.00
14 city of Manchester 4 per cent water bonds, Nos. 21, 22, 23, 24, 25, 26, 27, 28, 50, 51, 56, 57, 58, 59, due January 1, 1917....	14,000.00
4 city of Manchester 3½ per cent municipal bonds, Nos. 41, 42, 43, 44, due July 1, 1922	4,000.00
19 city of Manchester 4 per cent water bonds, Nos. 24 to 40 inclusive, 4, 7, due July 1, 1915.....	19,000.00
21 city of Manchester cemetery bonds, 3½ per cent, Nos. 1 to 21 inclusive, due October 1, 1930.....	21,000.00
1 city of Manchester bond, 4 per cent, due October 1, 1933.....	6,700.00
15 city of Manchester 4 per cent refunding cemetery bonds, Nos. 1 to 15 inclusive, due July 1, 1914, to July 1, 1921.....	15,000.00
19 city of Manchester 4 per cent water bonds, Nos. 81 to 99 inclusive, due November 1, 1921.....	19,000.00
14 city of Manchester 4 per cent water bonds, Nos. 61 to 74 inclusive, due November 1, 1920.....	14,000.00
5 city of Manchester 4 per cent water bonds, Nos. 75 to 79 inclusive, due November 1, 1920.....	5,000.00
2 city of Manchester 4 per cent water bonds, Nos. 41, 42, due November 1, 1919..	2,000.00

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 \$158,750.00

Cash on deposit in Manchester Savings bank, Book No. 50420.....	\$806.92	
Cash on deposit in Mechanics Savings bank, Book No. 3413.....	7,394.97	
Cash on deposit in Mechanics Savings bank, Book No. 4407.....	7,724.61	
Cash on deposit in Mechanics Savings bank, Book No. 4522.....	1,152.00	
		<hr/>
		\$17,078.50
		<hr/>
Total amount of permanent fund and income, December 31, 1913.....		\$175,828.50
		<hr/> <hr/>

## VALLEY CEMETERY.

10 city of Manchester 4 per cent water bonds, Nos. 43 to 52 inclusive, due November 1, 1919.....	\$10,000.00	
5 cemetery refunding bonds, 4 per cent, Nos. 16 to 20 inclusive, due July 1, 1921, to July 1, 1923.....	5,000.00	
8 city of Manchester 5 per cent cemetery bonds, Nos. 4, 7, 12, 19, 20, 21, 25, 27, due 1942, denomination \$1,000 each.....	8,000.00	
2 city of Manchester 5 per cent cemetery bonds, Nos. 2 and 4, due 1942, denomination \$50 each.....	100.00	
3 city of Manchester 4 per cent improvement bonds, Nos. 3, 4, 5, due April 1, 1916	3,000.00	
3 city of Manchester 3½ per cent city bonds, Nos. 81, 92, 100, due April 1, 1919, denomination \$1,000 each.....	3,000.00	
6 city of Manchester 3½ per cent municipal bonds, Nos. 35, 36, 37, 38, 39, 40, due 1922	6,000.00	
6 city of Manchester 3½ per cent cemetery bonds, Nos. 3, 4, 5, 6, 7, 8, due 1942, denomination \$100.00 each.....	600.00	
6 city of Manchester 4 per cent water bonds, Nos. 8, 9, 10, 11, 12, 13, due July 1, 1915 .....	6,000.00	
		<hr/>
		\$41,700.00
Cash on deposit in Mechanics Savings bank, Book No. 5569.....	\$8,617.16	
Cash on deposit in Amoskeag Savings bank, Book No. 68808.....	1,536.08	
		<hr/>
		10,153.24
		<hr/>
Total amount of permanent fund and income.....		\$51,853.24
		<hr/> <hr/>

MERRILL YARD CEMETRY.

2 city of Manchester 5 per cent cemetery bonds, Nos. 1 and 2, due 1942, denomination \$100 each .....	\$200.00	
1 city of Manchester 5 per cent cemetery bond, No. 1, due 1942, denomination \$50..	50.00	
		\$250.00
Cash on deposit in Amoskeag Savings bank, Book No. 69517 .....		1,745.58
Total amount of permanent fund and income De- cember 31, 1913.....		\$1,995.58

GALE FUND INCOME ACCOUNT.

Cash on hand in Amoskeag Savings bank, Book No. 34108	\$202.21

SPECIAL FUND.

For the care of the Oliver Gould lot in Pine Grove Cemetery.

Cash on hand in Manchester Savings bank, Book No. 94650 .....	\$529.58

HANNAH A. CURRIER FUND, VALLEY CEMETERY.

Cash on hand in Merrimack Savings bank, Book No. 42740 .....	\$535.79

EMILY E. KILLEY FUND.

For care of lot and improvements in Pine Grove Cemetery.

Cash on hand in Mechanics Savings bank, Book No. 7815	\$2,500.00

Total amount of fund and income December 31, 1913      \$233,444.90

JAMES E. DODGE,  
*City Auditor.*





**REPORT**  
**OF THE**  
**TRUSTEES OF THE SINKING FUND.**



## REPORT OF THE TRUSTEES OF THE SINKING FUND.

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*To the Mayor and Aldermen of the City of Manchester :*

GENTLEMEN—As required by chapter 37, section 4, of the City Ordinances of Manchester, the trustees of the Sinking Fund of the city of Manchester herewith report the condition of the several funds January 1, 1914, with receipts and disbursements for the year ending December 31, 1913.

CHARLES C. HAYES,  
CHARLES H. MANNING,  
FRED L. ALLEN,  
*Trustees of the Sinking Fund.*

### IMPROVEMENT LOAN.

Total amount of fund January 1, 1913, for the payment of improvement bonds.....		\$393,462.04
Interest on Manchester bonds.....	\$9,660.00	
Interest on Nashua bonds.....	200.00	
Interest on Boston bonds.....	1,975.00	
Interest on bank deposits.....	309.73	
E. H. Rollins & Sons:		
Discount on \$1,000 city of Manchester bond .....	2.50	
Discount on \$1,000 city of Manchester bond .....	1.25	
R. L. Day & Co.:		
Discount on \$11,000 city of Manchester bonds .....	27.50	
	12,175.98	
		\$405,638.02

## Cb.

## R. L. Day &amp; Co.:

Accrued interest paid on \$11,000 city of city of Manchester bonds purchased...	\$110.00
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## E. H. Rollins &amp; Sons:

Accrued interest paid on \$1,000 city of Manchester bond purchased.....	9.11
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## Water loan:

Accrued interest paid on \$11,000 city of Manchester bonds transferred from water loan .....	128.34
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## City of Manchester:

For the payment of improvement bonds maturing January 1, 1913.....	100,000.00
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\$100,247.45

Bonds on hand December 31, 1913.....	\$282,000.00
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Cash on hand December 31, 1913.....	23,390.57
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305,390.57

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\$405,638.02

## WATER LOAN.

Total amount of fund January 1, 1913, for the payment of water bonds.....	\$137,175.78
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## Interest on Manchester bonds:

Appropriation 1913.....	\$5,000.00
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Hydrant service 1913.....	23,525.00
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Water Department for part payment of water bonds maturing August 1, 1913...	40,000.00
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Interest on Manchester bonds.....	4,110.00
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Interest on bank deposits.....	441.05
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## City refunding loan 1927:

To accrued interest for \$7,000 of bonds transferred from water loan.....	93.33
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## Municipal loan:

To accrued interest for \$4,000 transferred from water loan.....	53.33
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## Improvement loan:

To accrued interest for \$11,000 for bonds transferred from water loan.....	128.34
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## E. H. Rollins &amp; Sons:

Discount on \$20,000 of bonds purchased..	75.00
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73,426.05

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\$210,601.83

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REPORT OF THE TRUSTEES OF THE SINKING FUND. 599

CR.

City of Manchester:

For payment of water bonds maturing  
August 1, 1913..... \$100,000.00

E. H. Rollins & Sons:

Accrued interest on \$20,000 of Manchester  
bonds purchased..... 4.44

\$100,004.44

Bonds on hand December 31, 1913..... \$75,000.00

Cash on hand December 31, 1913..... 35,597.39

110,597.39

\$210,601.83

SCHOOL LOAN.

Total amount of fund January 1, 1913, for the payment  
of school bonds maturing July 1, 1916..... \$39,317.53

Interest Manchester bonds..... \$1,130.00

Interest bank deposit..... 377.53

R. L. Day & Co.:

Discount on \$2,000 city of Manchester  
bonds purchased..... 50.00

1,557.53

\$40,875.06

CR.

R. L. Day & Co.:

Accrued interest paid on \$20,000 city of Manchester  
bonds purchased..... \$200.00

Bonds on hand December 31, 1913..... \$37,000.00

Cash on hand December 31, 1913..... 3,675.06

40,675.06

\$40,875.06

CITY FUNDING LOAN.

Total amount of fund January 1, 1913, for the payment  
of bonds maturing April 1, 1919..... \$73,201.52

Interest Manchester bonds..... \$2,350.00

Interest bank deposit..... 108.00

Six months' interest on city of Manchester  
\$9,000 note at 4%..... 180.00

2,638.00

\$75,839.52

## ANNUAL OFFICIAL REPORT.

## CR.

Bonds on hand December 31, 1913.....	\$60,000.00	
Cash on hand December 31, 1913.....	15,839.52	
		<u>\$75,839.52</u>

## MUNICIPAL LOAN.

Total amount of fund January 1, 1913, for the payment of bonds maturing July 1, 1922.....		\$45,738.45
Appropriation 1913.....	\$4,000.00	
Interest Manchester bonds.....	1,380.00	
Interest bank deposit.....	91.00	
Six months' interest on city of Manchester note of \$3,850 at 4%.....	77.00	
		<u>5,548.00</u>
		<u>\$51,286.45</u>

## CR.

Water loan accrued interest for \$4,000 of city of Man- chester bonds transferred.....		\$53.33
Bonds on hand December 31, 1913.....	\$40,800.00	
City of Manchester note payable December 18, 1914 at 4%.....	6,900.00	
Cash on hand December 31, 1913.....	3,533.12	
		<u>51,233.12</u>
		<u>\$51,286.45</u>

## CITY REFUNDING LOAN.

Total amount of fund January 1, 1913, for the payment of bonds maturing April 1, 1925.....		\$19,426.88
Appropriation 1913.....	\$2,500.00	
Interest Manchester bonds.....	680.00	
R. L. Day & Co.:		
Discount on \$4,000 city of Manchester bonds purchased.....	10.00	
Interest bank deposit.....	78.71	
		<u>3,268.71</u>
		<u>\$22,695.59</u>

REPORT OF THE TRUSTEES OF THE SINKING FUND. 601

CR.

R. L. Day & Co.:

Accrued interest paid for the purchase of \$4,000 city of Manchester bonds .....		\$40.00
Bonds on hand December 31, 1913.....	\$19,000.00	
City of Manchester:		
Note payable December 18, 1914.....	2,500.00	
Cash on hand December 31, 1913.....	1,155.59	
		<u>\$22,655.59</u>
		<u>\$22,695.59</u>

REFUNDING CITY LOAN.

Total amount of fund January 1, 1913, for the payment of bonds maturing April 1, 1927.....		\$13,334.35
Appropriation 1913.....	\$2,500.00	
Interest Manchester bonds.....	240.00	
Interest bank deposit.....	242.96	
		<u>2,982.96</u>
		<u>\$16,317.31</u>

CR.

Accrued interest for \$7,000 Mancehtser bonds transferred from water loan.....		\$93.33
Bonds on hand December 31, 1913.....	\$13,000.00	
City of Manchester:		
Note payable December 18, 1914, at 4%...	2,500.00	
Cash on hand December 31, 1913.....	723.98	
		<u>16,223.98</u>
		<u>\$16,317.31</u>

IMPROVEMENT LOAN, SERIES E.

Amount of fund January 1, 1913, for the payment of bonds maturing April 1, 1930.....		\$15,404.00
Appropriation 1913.....	\$5,000.00	
Interest Manchester bonds.....	300.00	
Interest bank deposit.....	365.03	
R. L. Day & Co.:		
Discount on \$15,000 city of Manchester bonds purchased.....	37.50	
		<u>5,702.53</u>
		<u>\$21,106.53</u>

## CB.

## R. L. Day &amp; Co.:

Accrued interest for \$15,000 of 4% city of Manchester bonds purchased.....		\$150.00
Bonds on hand December 31, 1913.....	\$15,000.00	
Cash on hand December 31, 1913.....	956.53	
City of Manchester:		
Note payable December 18, 1914 at 4%...	5,000.00	
		<u>20,956.53</u>
		<u>\$21,106.53</u>

## CEMETERY LOAN.

Total amount January 1, 1913, for the payment of bonds maturing October 1, 1930.....		\$2,131.50
Appropriation 1913.....	\$1,050.00	
Interest bank deposit.....	74.74	
		<u>1,124.74</u>
		<u>\$3,256.24</u>

## CB.

Cash on hand December 31, 1913.....	\$3,256.24
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Respectfully submitted,

FRED L. ALLEN,

*Treasurer of the Trustees of the Sinking Fund.*

This is to certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of the Sinking Fund, embracing the receipts and expenditures for the year ending December 31, 1913, and find the same correct and properly vouched. I have also examined the securities in which the fund is invested and find the same as follows:







MUNICIPAL LOAN.

For the payment of bonds maturing July 1, 1922.

No. of bonds held.	Descriptive No. of Bonds.	Value of bond.	Kind.	Rate of interest.	Due.	Amount.
8	Nos. 3 to 10 inc.....	\$100	Street and sewer.....	4%	Oct. 1, 1914	\$800.00
4	Nos. 37 to 40 inc.....	1,000	School .....	4%	July 1, 1916	4,000.00
	City of Manchester, note payable Dec. 18, 1914 .....	.....	.....	.....	.....	.....
1	Nos. 52, 53, 54, 55.....	1,000	Water .....	4%	Oct. 1, 1914	6,900.00
4	Nos. 26, 27, 28.....	1,000	Water .....	4%	Jan. 1, 1917	1,000.00
3	Nos. 91 to 100 inc.....	1,000	Refunding .....	3½%	April 1, 1925	4,000.00
11	Nos. 34, 45 to 60 inc.....	1,000	Improvement Series C..	4%	April 1, 1915	3,000.00
17	Note and bonds on hand.....	1,000	Municipal .....	3½%	July 1, 1922	17,000.00
	Cash on hand.....	.....	.....	.....	.....	\$47,700.00
		.....	.....	.....	.....	3,533.12
						<u>\$51,233.12</u>





CEMETERY LOAN.

Cash on hand ..... \$3,256.24

Total amount of sinking fund..... \$616,828.00

JAMES E. DODGE,  
*City Auditor.*

**REPORT**  
**OF THE**  
**BOARD OF PUBLIC WORKS.**





## REPORT OF THE BOARD OF PUBLIC WORKS.

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OFFICE OF THE BOARD OF PUBLIC WORKS.

MANCHESTER, N. H., December 31, 1913.

*To His Honor the Mayor, the Board of Aldermen, and the Common Council of the City of Manchester, N. H.:*

GENTLEMEN—We herewith submit the nineteenth annual report, which comprises the details of the operations conducted by the department of highways, sewers, street cleaning, and parks and commons for the year 1913.

MAYOR CHARLES C. HAYES, *Chairman*,  
WILLIAM McELROY,  
BYRON WORTHEN,

*Board of Public Works.*

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### Organization for the Year.

MAYOR CHARLES C. HAYES, *Chairman*.

WILLIAM McELROY.

BYRON WORTHEN.

SAMUEL J. LORD, *Engineer*.

### OFFICE.

Harrie H. Clement, chief clerk.

Felix A. Lepage, assistant clerk.

Leon B. Stevens, assistant clerk.

### HIGHWAY AND SEWER DEPARTMENT.

George P. Ames, superintendent, Division No. 2 (to April 1, 1913).

Emile A. Blanchet, timekeeper, Division No. 2.

Alphonse Laberge, superintendent, Division No. 10 (August 1, 1913).

Harry T. George, timekeeper, Division No. 10.

Charles Francis, superintendent and timekeeper, Division No. 7.

Shirley Merrill, superintendent and timekeeper, Division No. 5.

Byron E. Moore, superintendent and timekeeper, Division No. 4.

Nelson W. Paige, superintendent and timekeeper, Division No. 9.

## STREET CLEANING DEPARTMENT.

Levi J. Proctor, superintendent.

Sewall A. Blood, timekeeper (to July 26, 1913).

## PARKS AND COMMONS DEPARTMENT.

A. J. Seastrom, superintendent and timekeeper.

Cash was paid into the city treasury for labor done or material furnished (or both) by this department by persons, firm or corporations, and credited to appropriations as listed in the following schedules.

All moneys are paid direct to the city treasury and do not pass through the hands of the board.

Name.	Appropriation.	Total.
Amoskeag Mfg. Co.....	Grading for concrete.....	\$114.35
Babel, Herman.....	City teams .....	3.84
Bach, Henry .....	Bridges .....	132.80
Bach, Henry .....	Repairs of highways.....	90.00
Bartlett, B. J.....	City teams .....	9.62
Bennett, R. M.....	Bridges .....	.93
Board of Public Works....	Board of Public Works.....	55.50
Bobeck, Joseph .....	Oiling streets .....	.68
Bolton, Thomas .....	Bridges .....	1.50
Bolton, Thomas .....	Repair of highways.....	4.50
Boston & Maine R. R.....	City teams .....	16.63
Brown, C. W., Agent.....	Bridges .....	150.00
Bunton & Bernard.....	Paving streets .....	209.90
Bunton & Bernard.....	Paving streets .....	153.09
Chase, G. E.....	Scavenger service .....	3.68
Cochran, T. E.....	City teams .....	2.46
Derry, N. H., Town of.....	Paving streets .....	1.70
Dery, J. Michel.....	Bridges .....	1.28
Dery, J. Michel.....	City teams .....	1.05
Fellows & Son.....	Bridges .....	2.20
Francestown, Town of.....	City teams .....	10.08
Goodwin, G. W.....	Paving streets .....	1.50
Gosselin, Adelard .....	City teams .....	1.88
Gould, Mrs. George E.....	City teams .....	11.20
Hill, Fred .....	Watering streets .....	.88
Hoffman, Maurice .....	Bridges .....	4.78
Horne, A. P.....	City teams .....	8.04
Johnson, H. F.....	Repairs of highways.....	1.50
Kennedy & Peterson C. Co.	Paving streets .....	250.00
Laroche, Daniel .....	Bridges .....	10.00
Laroche, Daniel .....	Bridges .....	10.00
Laroche, Daniel .....	Watering streets .....	20.00
Laroche, Daniel .....	City teams .....	10.00
Laroche, Daniel .....	City teams .....	10.00
Laroche, Daniel .....	City teams .....	10.00
Laroche, Daniel .....	City teams .....	10.00
Laroche, Daniel .....	City teams .....	10.00
Laroche, Daniel .....	City teams .....	10.00
Laroche, Daniel .....	City teams .....	10.00
Ley, F. T. Co.....	Bridges .....	130.00
Ley, F. T. Co.....	Repairs of highways.....	24.00
Leighton, F. D.....	City teams .....	4.08
Lightstone, James .....	City teams .....	5.32
Litchfield, N. H., Town of..	City teams .....	15.73
Loving, W. A.....	City teams .....	3.99
Manchester Iron & Metal Co.	Grading for concrete.....	99.82

Name.	Appropriation.	Total.
Manchester Street Railway	Repairs of highways.....	4.32
Manchester Street Railway	Repairs of highways.....	2,091.96
Manchester Street Railway	Repairs of highways.....	9,668.76
Manchester Street Railway	Paving streets .....	372.60
Manchester Street Railway	Paving streets .....	107.08
Manchester Street Railway	Paving streets .....	162.84
Manchester Street Railway	Grading for concrete .....	206.57
Manchester Street Railway	Grading for concrete .....	80.92
Manchester Street Railway	Grading for concrete .....	109.92
Manchester Street Railway	Grading for concrete .....	173.39
Manchester Street Railway	Grading for concrete .....	122.52
Manchester Street Railway	City teams .....	16.79
Manchester Street Railway	City teams .....	2.31
Manchester Street Railway	City teams .....	5.06
Manchester Street Railway	City teams .....	24.34
Manchester Street Railway	City teams .....	4,629.38
Manseau, J. T.....	City teams .....	3.40
Martel, Joseph.....	Oiling streets .....	5.47
McKelvie, A. J.....	City teams .....	14.18
McPherson.....	City teams .....	1.52
Monty, Louis.....	City teams .....	2.56
Muir, John.....	City teams .....	2.66
New England T. & T. Co..	Bridges .....	47.22
New Hampshire, State of..	Grading for concrete.....	167.85
New Hampshire, State of..	City teams .....	64.00
New Hampshire, State of..	Scavenger service .....	5,920.55
New Hampshire, State of..	Watering streets .....	488.19
New Hampshire, State of..	Watering streets .....	837.45
New Hampshire, State of..	Paving streets .....	758.88
Osberg, Carl.....	Grading for concrete.....	4.00
Paige, W. P.....	Oiling streets .....	1.00
Parker, Henry W.....	Bridges .....	213.00
Parker, Henry W.....	Watering streets .....	958.62
Parker, Henry W.....	Grading for concrete.....	41.32
Peoples Gas Light Co.....	Oiling streets .....	7.16
Peoples Gas Light Co.....	City teams .....	4.85
Peoples Gas Light Co.....	City teams .....	14.81
Peoples Gas Light Co.....	Grading for concrete.....	59.31
Peoples Gas Light Co.....	Grading for concrete.....	12.29
Peoples Gas Light Co.....	Grading for concrete.....	19.56
Pierce, E. E.....	City teams .....	3.68
Pine Grove Cemetery.....	Paving streets .....	216.00
Pine Grove Cemetery.....	Paving streets .....	470.74
Poore, D. M. Coal Co. ....	City teams .....	16.28
Prescott, A. W.....	City teams .....	7.98
Purinton, C. E.....	City teams .....	23.94
Quirin, William E.....	Grading for concrete.....	159.49
Rhodes, S. P.....	City Teams.....	1.36
Seastrom, John.....	City teams .....	10.70
Shanahan, John C.....	Paving streets .....	1.50
Spear, William C.....	Repairs of highways.....	70.00
Spear, William C.....	Grading for concrete.....	70.00
Spear, William C.....	Paving streets .....	35.00
Sullivan, Casey & Stewart..	Repairs of highways.....	1.50
Tax Collector.....	Brown-tail and gypsy moth.....	1,815.32
Tirrell, N. A.....	City teams .....	3.40
Tirrell, N. A.....	Oiling streets .....	1.36
Varick, J. B. Co.....	Paving streets .....	139.14
Worthen, Byron.....	Oiling streets .....	166.75
Weare, N. H., Town of.....	Watering streets .....	9.06
Wilson, William C.....	Grading for concrete.....	171.58
		\$32,462.37

POLE LOCATIONS GRANTED AND REVOKED DURING YEAR 1913.

LOCATION.	LIMITS.	Date.	POLE LOCATIONS.	
			Granted.	Revoked.
Alsace, east side.....	Bremer, southerly.....	July.....	4	...
Amherst, north side.....	Pine, west side.....	January.....	1	...
Amherst, south side.....	Walnut, easterly.....	January.....	6	...
Amory, north side.....	Hevey, west side.....	January.....	3	...
Appleton, north side.....	Adams, easterly.....	January.....	6	...
Appleton, south side.....	Ray to Union.....	July.....	1	...
Auburn, north side.....	Ray, westerly.....	July.....	1	...
Auburn, north side.....	Canton, westerly.....	March.....	18	...
Auburn, north side.....	Canton to Hall.....	March.....	18	...
Auburn, south side.....	Elm, easterly.....	January.....	6	...
Auburn south back, north side.....	Between Union and Pine east back.....	January.....	6	...
Bank, north side.....	Huntress, east side.....	January.....	2	...
Barf, west side.....	Granite, north side.....	January.....	6	...
Bartlett, east side.....	Sullivan, southerly.....	January.....	6	...
Bay, west side.....	Clarke to Carpenter.....	December 23.....	4	...
Bay, east side.....	Webster, northerly.....	January.....	6	...
Beech, west side.....	Gold to Brown Avenue.....	December 23.....	2	...
Bell, south side.....	Pine to Pine east back.....	January.....	6	...
Belmont, west side.....	Mead, north side.....	January.....	2	...
Belmont, west side.....	Mead, southerly.....	January.....	6	...
Boutwell, east side.....	Bremer, southerly.....	January.....	1	...
Boutwell, east side.....	Kelley, northerly.....	January.....	3	...
Boutwell, east side.....	Kelley, southerly.....	January.....	6	...
Boutwell, east side.....	Bremer, northerly.....	January.....	2	...
Boutwell east back, east side.....	Bremer to Kelley.....	January.....	6	...
Boutwell east back, east side.....	Grant to Sherman.....	January.....	4	...
Boynton, northwesterly side.....	Sherman to Glenwood Avenue.....	January.....	2	...
Boynton, northwesterly side.....	Glenwood Ave to Manchester-Bedford town line.....	January.....	4	...
Bremer, north side.....	Montgomery, easterly.....	January.....	4	...
Bremer, south side.....	Montgomery to Reed.....	December 23.....	1	...
Bremer, south side.....	Reed to Youville.....	December 23.....	2	...
Bremer, south side.....	Youville, westerly.....	December 23.....	2	...
Brown Avenue, east side.....	Westland Avenue to Mitchell.....	December.....	2	...
Brown Avenue, east side.....	Mitchell to South Ferry Road.....	January.....	9	...
Brown Avenue, west side.....	Vernon, north side.....	January.....	18	...
Brown Avenue, west side.....	Vernon, north side.....	January.....	6	...

Brown Avenue, west side.....	m	Byron, southerly .....	m	January	6	1	...
Brown Avenue, west side.....	m	Between Westland Avenue and Mitchell.....	m	January	6	1	...
Brown Avenue, west side.....	m	Mitchell, southerly .....	m	January	6	2	...
Brown Avenue, northwesterly side.....	m	Smith Ferry Road, south side.....	m	January	6	1	...
Brown Avenue, northwesterly side.....	n	Goffe's Falls, northerly.....	n	July	1	4	...
Brown Avenue, northwesterly side.....	n	Goffe's Falls, northerly.....	n	July	1	4	...
Brown Avenue, westerly side.....	n	Londonderry Road (Goffe's Falls) to Manchester-Londonderry town line.....	n	December	23	23	...
Brown Avenue, westerly side.....	n	Manchester-Londonderry town line, southerly.....	n	December	23	26	...
Brown Avenue, easterly side.....	n	From south of Manchester-Londonderry town line southerly to Manchester-Litchfield town line.....	n	December	23	35	...
Brown Avenue, easterly side.....	n	Brown Avenue to B. & M. R. R.....	n	January	6	12	...
Brown Avenue, easterly side.....	n	Boynton, westerly .....	m	January	6	2	...
Brown Avenue, easterly side.....	n	Brown Avenue, northerly.....	n	December	23	5	...
Brown Avenue, easterly side.....	n	Elmwood Avenue, south side.....	n	December	23	1	...
Brown Avenue, easterly side.....	n	Elmwood Avenue to Harrington Avenue.....	n	December	23	3	...
Brown Avenue, easterly side.....	n	Harrington Avenue to Elmhurst Avenue.....	n	December	23	3	...
Brown Avenue, easterly side.....	n	Elmhurst Avenue to Rosedale Avenue.....	n	December	23	3	...
Brown Avenue, easterly side.....	n	Elmhurst Avenue to Hillcrest Avenue.....	n	December	23	2	...
Brown Avenue, easterly side.....	n	Rosedale Avenue to Hillcrest Avenue.....	n	December	23	2	...
Brown Avenue, easterly side.....	n	Hillcrest Avenue, northerly.....	n	December	23	1	...
Brown Avenue, easterly side.....	n	Mammoth Road, easterly.....	m	January	6	1	...
Brown Avenue, easterly side.....	n	Orchard Avenue to Highland Park Avenue.....	n	January	6	3	...
Brown Avenue, easterly side.....	n	Highland Park Avenue to Woodland Avenue.....	n	January	6	3	...
Brown Avenue, easterly side.....	n	Woodland Avenue to Cody.....	n	January	6	2	...
Brown Avenue, easterly side.....	n	Cody to Platts Avenue.....	n	January	6	9	...
Brown Avenue, easterly side.....	n	Platts Avenue to Page.....	n	January	6	3	...
Brown Avenue, easterly side.....	m	Between Union and Beech.....	m	January	6	3	...
Brown Avenue, easterly side.....	m	Lincoln, westerly .....	m	January	6	3	...
Brown Avenue, easterly side.....	n	Franklin, easterly .....	n	July	1	...	...
Brown Avenue, easterly side.....	n	Franklin to Canal.....	n	July	1	...	...
Brown Avenue, easterly side.....	n	Franklin, east side.....	n	July	1	...	...
Brown Avenue, easterly side.....	n	Franklin to Canal.....	n	July	1	7	...
Brown Avenue, easterly side.....	n	Canal to B. & M. R. R.....	n	July	1	2	...
Brown Avenue, easterly side.....	n	B. & M. R. R., westerly.....	n	July	1	...	...
Brown Avenue, easterly side.....	n	B. & M. R. R. to State Street.....	n	July	1	3	...
Brown Avenue, easterly side.....	m	West Webster, southerly.....	m	July	1	4	...
Brown Avenue, easterly side.....	m	Hospital Avenue, northerly.....	m	January	6	1	...
Brown Avenue, easterly side.....	m	Sagamore, north side.....	m	January	6	1	...
Brown Avenue, easterly side.....	m	Valley to Hayward.....	m	January	6	3	...
Brown Avenue, easterly side.....	m	Orange, north side.....	m	January	6	3	...
Brown Avenue, easterly side.....	n	Chestnut, westerly .....	n	January	6	...	...
Brown Avenue, easterly side.....	n	Cypress, westerly .....	n	January	6	3	...
Brown Avenue, easterly side.....	n	Third, westerly .....	n	January	6	3	...
Brown Avenue, easterly side.....	m	Spruce to Auburn.....	m	January	6	3	...
Brown Avenue, easterly side.....	m	Corning Road, southeasterly.....	m	January	6	4	...
Brown Avenue, easterly side.....	m	Between Pine east back and Union.....	m	January	6	3	...
Brown Avenue, easterly side.....	n	Between Pine east back and Union.....	n	January	6	1	...

POLE LOCATIONS GRANTED AND REVOKED DURING YEAR 1913.—Continued.

LOCATION.	LIMITS.	Date.	POLE LOCATIONS.	
			Granted.	Revoked.
Congress, east side.....	Amory, southerly .....	January 6	1	...
Coolidge Ave. west back, west side	Mason, southerly .....	December 23	2	...
Coolidge Ave. west back, west side	Rhinnon to Rhinnon .....	December 23	2	...
Coolidge Ave. west back, west side	Rhinnon to Hevey .....	December 23	3	...
Corning Road, westerly side.....	Hevey, west side .....	December 23	1	...
Cypress, west side.....	Opposite Conant Road .....	January 6	1	3
Cypress, west side.....	Massabasic to Valley.....	January 6	4	...
Cypress, east side.....	Valley, northerly .....	January 6	5	...
Derry Hill Road, northerly side.....	Somerville to Young.....	July 1	3	...
Derry Hill Road, northerly side.....	Brown Avenue, easterly.....	December 23	3	2
Derry Road, southerly side.....	Brown Avenue, easterly.....	December 23	1	...
Dickey Road, south side.....	Conant Road, southeasterly.....	January 6	3	...
Dix, south side.....	Derry Road, easterly.....	January 6	3	...
Donald, northwesterly side.....	Taylor, easterly .....	December 23	3	...
Donald, southeasterly side.....	From end of present line opposite St. Joseph's Cemetery southwesterly to Bedford town line.....	July 1	5	...
Douglas, north side.....	From end of present line opposite St. Joseph's Cemetery southwesterly to Bedford town line.....	July 1	4	5
Dubuque east back, east side.....	Main, easterly .....	July 1	3	...
Edgar, west side.....	Kelley, southerly .....	December 23	1	...
Edmond, east side.....	Palmer, southerly .....	January 6	1	...
Edmond, westerly side.....	Pinard to Henriette.....	January 6	3	...
Edmond, east side.....	Between Pinard and Henriette.....	January 6	2	...
Edmond, westerly side.....	Henriette, southerly .....	January 6	1	...
Elm .....	Henriette, southerly .....	January 6	1	...
Elm, west side.....	Summer to Valley.....	June 16	1	und' ground conduit
Eric, north side.....	Opposite Stark Avenue.....	July 1	1	...
Evie, southerly side.....	South Main, westerly.....	January 6	2	...
Garland Avenue, south side.....	River Road, westerly .....	January 6	2	...
Garnon, west side.....	Cypress, westerly .....	January 6	2	...
Gertrude, westerly side.....	Hanover to Amherst.....	December 23	4	...
Gold, south side.....	Hanover to Amherst.....	January 6	4	...
Granite, southeasterly side.....	Calif Road to Beech.....	December 23	11	...
	Winter, northeasterly.....	January 6	4	...

Green, south side.....	Elm east back, west side.....	m	1	January	6	1
Green south back, north side.....	Beech, westerly.....	m	3	January	6	3
Grove, north side.....	Belmont to Hosley.....	n	6	January	6	6
Grove, north side.....	Hosley to Taylor.....	n	8	January	6	8
Grove south back, north side.....	Pine east back to Union.....	n	1	July	1	1
Grove south back, north side.....	Union, easterly.....	n	1	July	1	1
Hall, east side.....	Union to Beech.....	n	6	January	6	6
Hall, east side.....	Valley, north side.....	m	8	January	6	8
Hall, west side.....	Somerville, northerly.....	m	1	January	6	1
Hall, west side.....	Hanover, south side.....	m	1	January	6	1
Hanpton, north side.....	Valley, southerly.....	m	3	December	23	3
Hanover, north side.....	Willow to B. & M. R. R.....	n	1	January	6	1
Hanover, north side.....	Brown Avenue, westerly.....	m	1	January	6	1
Hanover, south side.....	Pine, east side.....	m	6	January	6	6
Hanover, south side.....	Pine, east side.....	m	6	January	6	6
Hanover, south side.....	Pine, easterly.....	m	2	January	6	2
Hanover, north side.....	Union, east side.....	m	6	January	6	6
Hanover, north side.....	Union, east side.....	m	6	January	6	6
Hanover.....	Maple to Wilson.....	n	1	January	6	1
			16	June	16	conduct und' ground
Hanover, south side.....	Hall, west side.....	n	1	December	23	1
Hanover, south side.....	Highland to Grant.....	n	10	December	23	10
Hanover, south side.....	Mammoth Road to Lake Avenue.....	n	8	January	6	8
Harvard, north side.....	Hall, westerly.....	m	6	January	6	6
Harvard south back, north side.....	Wilson to Hall.....	n	1	January	6	1
Hayward, north side.....	Union, easterly.....	n	4	July	1	4
Hayward, north side.....	Belmont to Taylor.....	n	6	January	6	6
Hayward, north side.....	Taylor, westerly.....	n	6	January	6	6
Hayward, north side.....	Taylor to Answorth Avenue.....	n	6	January	6	6
Hayward, north side.....	Taylor to Cypress.....	n	6	January	6	6
Hayward, north side.....	Mammoth Road, west side.....	n	1	January	6	1
Hayward, south side.....	Mammoth Road, westerly.....	m	6	January	6	6
Hayward, south side.....	Mast Road to Edmond.....	n	5	January	6	5
Henriette, south side.....	Pdmond, westerly.....	m	1	January	6	1
Hevey east back, west side.....	Mason to Bremer.....	n	6	January	6	6
Hevey east back, east side.....	Kelley, southerly.....	m	4	January	6	4
High, East, north side.....	Amory, northerly.....	m	1	January	6	1
High, East, north side.....	Bargess to Highland.....	n	4	January	6	4
High, East, north side.....	Highland to Weston.....	n	6	January	6	6
High, East, north side.....	Weston to Beacon.....	n	3	January	6	3
High, East, south side.....	Ashland, easterly.....	n	6	January	6	6
High, East, south side.....	Ashland, easterly.....	n	2	January	6	2
High, East, south side.....	Between Ashland and Malvern.....	n	1	January	6	1
High, East, south side.....	Between Malvern and Jane.....	n	1	January	6	1
High, East, south side.....	Jane, west side.....	n	1	January	6	1
High, East, south side.....	Between South and Nashua.....	n	1	January	6	1
Highland, east side.....	Hanover to Amherst.....	n	3	December	23	3

POLE LOCATIONS GRANTED AND REVOKED DURING YEAR 1913. - *Continued.*

LOCATION.	LIMITS.	Date.	POLE LOCATIONS.	
			Granted.	Revoked.
Highland, west side.....	Hanover to Amherst.....	January 6	4	...
Highland, east side.....	Amherst, north side.....	December 23	1	...
Highland, west side.....	Amherst, northerly.....	January 6	1	...
Highland, west side.....	East High, northerly.....	January 6	3	...
Highland, west side.....	East High, southerly.....	January 6	2	...
Highland, west side.....	East High to Bridge.....	December 23	4	...
Hilton, west side.....	Hanover to Amherst.....	December 23	3	...
Hilton, west side.....	Hanover to Amherst.....	December 23	...	3
Hilton, west side.....	Hanover to Amherst.....	December 23	3	...
Hilton, west side.....	Amherst to Lowell.....	December 23	10	...
Hilton, west side.....	Hall, easterly.....	December 23	...	10
Holly Avenue, north side.....	Taylor to Cypress.....	July 1	7	...
Holly Avenue, north side.....	Cypress, westerly.....	July 1	6	...
Howe, north side.....	Wilson, westerly.....	January 6	5	...
Hubbard, east side.....	Hanover to Amherst.....	January 6	3	...
Hubbard, east side.....	Amherst to Waterman.....	December 23	4	...
Hubbard, east side.....	Waterman to Concord.....	December 23	1	...
Huse Road, east side.....	Maynard Avenue, southerly.....	December 23	3	...
Island Pond Road, southerly side.....	From end of present pole line at Corey's Stock Farm to Dickey Road.....	July 1	2	...
Jane, southwesterly side.....	East High, southeasterly*.....	January 6	47	...
Jane, southwesterly side.....	Nashua, southeasterly.....	January 6	2	...
Joliette, east side.....	Amory, northerly.....	December 23	1	...
Joliette, east side.....	Bremner, southerly.....	January 6	3	...
Joliette, east side.....	Bremner, northerly.....	January 6	5	...
Joliette, east side.....	Bremner, northerly.....	January 6	1	...
Joliette, east side.....	Scelley to Bremner.....	January 6	2	...
Joliette east back, west side.....	Bremner, northerly.....	January 6	7	...
Joliette east back, west side.....	Amory, southerly.....	January 6	3	...
Kearsarge, west side.....	Reed east back to Alsace.....	July 1	8	...
Kelley, south side.....	Opposite Joliette east back.....	January 6	7	...
Kelley, south side.....	Opposite Joliette east back.....	January 6	1	...
Kelley, south side.....	Boutwell to Kimball.....	January 6	...	1
Kelley, south side.....	Hayward, southerly.....	January 6	4	...
Knowlton, east side.....	Hayward, southerly.....	January 6	8	...
Knowlton, west side.....	Hayward, southerly.....	January 6	...	3





POLE LOCATIONS GRANTED AND REVOKED DURING YEAR 1913.—Continued.

LOCATION.	LIMITS.	Date.	POLE LOCATIONS.	
			Granted.	Revoked.
Mill, south side.....	Front, easterly.....	January 6	3	...
Montgomery east back, east side..	Amory, northerly.....	January 6	3	...
Montgomery east back, east side..	Kelley, southerly.....	January 6	3	...
Morgan, east side.....	Kelley to Amory.....	July 1	6	...
Myrtle, south side.....	Oak, west side.....	January 6	1	...
Mystic, south side.....	South Beech, westerly.....	July 1	9	...
Notre Dame Avenue, west side.....	Milton, south side.....	January 6	1	...
Notre Dame Ave. east back, w. s.	Adams, southerly.....	January 6	1	...
Nutfield Lane.....	Londonderry Lane to Manchester, permission to pass wires in ducts thro' bridge erected by the Barton Co., across Nutfield Lane, also to pass wires over and under said bridge.....	January 6	1	...
Orange, south side.....	Russell, westerly.....	January 6	1	...
Orange, south side.....	North Church Street, east side.....	January 6	1	...
Otis, south side.....	Between Davis and River Road.....	January 6	2	...
Page, east side.....	Hanover, northerly.....	January 6	3	...
Page, west side.....	Hanover, northerly.....	January 6	6	...
Palmer, north side.....	River Road to Edgar.....	January 6	9	...
Pennsylvania Avenue, east side.....	Edgar, west side.....	January 6	1	...
Pennsylvania Avenue, east side.....	Hanover to Paris.....	January 6	3	...
Pennsylvania Avenue, west side.....	Paris, northerly.....	January 6	1	...
Pennsylvania Avenue, west side.....	Hanover to Paris.....	January 6	3	...
Pine, east side.....	Paris to London.....	January 23	1	...
Pine east back, east side.....	Willow, northerly 90 feet.....	May 1	1	...
Pine east back, east side.....	Bell, northerly.....	January 6	1	...
Pine east back, east side.....	Bell, south side.....	January 6	1	...
Platts Avenue, west side.....	Concord, southerly.....	January 6	2	...
Porter Avenue, southerly side.....	Candia Road, northerly.....	January 6	1	...
Putnam, north side.....	About 300 feet northeasterly from Amherst.....	January 6	3	...
Putnam, north side.....	Bartlett to Thornton.....	January 6	2	...
Putnam Street, east side.....	Thornton to Whipple.....	January 6	3	...
Railroad Street, east side.....	Whipple, westerly.....	January 6	2	...
Railroad Street, east side.....	Whittemore Avenue, southerly.....	January 6	3	...
	From residence of George Knoetner.....	January 6	3	...
	South of Whittemore Avenue, northerly.....	January 6	3	...



POLE LOCATIONS GRANTED AND REVOKED DURING YEAR 1913.—Concluded.

LOCATION.	LIMITS.	Date.	POLE LOCATIONS.	
			Granted.	Revoked.
Walnut, west side.....	About 500 feet north of Webster.....	January 6	1	...
Walnut, east side.....	Webster, southerly .....	December 23	1	...
Walnut east back, west side.....	Bridge, southerly .....	January 6	2	...
Warner, east side.....	Wilkins to Kingston.....	July 1	9	...
Wayne, south side.....	Hevey east back, east side.....	January 6	1	...
Wayne, south side.....	Hevey, easterly .....	January 6	1	...
Wayne, south side.....	Columbus Avenue, westerly.....	January 6	1	...
Webster, West, south side.....	Chandler, westerly .....	January 6	1	...
Webster, West, south side.....	River Road, west side.....	January 6	1	...
Wentworth, west side.....	Between Gilman and Bell.....	January 6	1	...
Wentworth, west side.....	Gilman, northerly .....	December 23	2	...
Whittemore Avenue, east side.....	Railroad Street to Sullivan.....	December 23	1	...
Wilkins, north side.....	Rockland Avenue to Warner.....	January 6	5	...
Wilkins, south side.....	Rockland Avenue to Warner.....	January 6	7	...
Wilkins, north side.....	Warner to Mast Road.....	December 23	8	...
Wilkins, north side.....	Beech to Cilley Road.....	January 6	7	...
Willow, east side.....	Cilley Road to Shasta.....	July 1	3	...
Willow, east side.....	Shasta to B. & M. R. R.....	July 1	3	...
Willow, east side.....	Pine, southerly 130 feet.....	July 1	3	...
Willow, east side.....	Pine, east side.....	May 23	1	...
Willow, westerly side.....	Silver, northerly .....	May 23	1	...
Wilson, east side.....	Green, north side.....	January 6	1	...
Wilson, east side.....	Grove, north side.....	December 23	1	...
Wilson, west side.....	Clay to Dix.....	December 23	1	...
Wilson, west side.....	Dix to Howe.....	January 6	2	...
Wilson, west side.....	Howe, southerly .....	January 6	3	...
Winter, northeasterly side.....	Parker, southeasterly .....	January 6	1	...
Winter, southeasterly side.....	Parker, northwesterly .....	January 6	2	...
Woodlawn Avenue, northerly side.....	From Manchester-Londonderry town line to residence of Joseph T. Loomis.....	January 6	2	...
Worthley Road, north side.....	Rockland Avenue to Alpine.....	January 6	4	...
Worthley Road, south side.....	Sylvester, westerly .....	January 6	4	...
Worthley Road, north side.....	Alpine, easterly .....	January 6	7	...
Worthley Road, north side.....	Alpine, westerly .....	January 6	3	...
Worthley Road, north side.....	Alpine, westerly .....	January 6	1	...

(c) Commercial Union Telegraph Company.  
 (n) New England Telephone & Telegraph Company.  
 (m) Manchestre Traction, Light & Power Company.

The office of the Board of Public Works has issued permits during the year 1913 as follows:

Auction sale .....	2
Building cellar wall .....	1
Building cement step .....	1
Building cesspools .....	2
Building manhole .....	1
Building retaining wall .....	3
Building sidewalk .....	1
Building wall .....	2
Changing location of pole.....	1
Circus .....	2
Clean out sewer .....	2
Clean out window grates .....	1
Connecting sewer .....	175
Cut down tree .....	1
Digging cellar .....	7
Dump sand in gutter .....	7
Erecting buildings .....	36
Garbage collector's license .....	111
Hanging and taking down signs .....	13
Installing boiler .....	3
Installing fire alarm .....	5
Laying drain pipe .....	2
Laying and repairing underground conduits.....	28
Laying sewer pipe .....	2
Laying water pipe .....	3
Leave electric sign on sidewalk.....	1
Leave wood in gutter.....	1
Loading lumber .....	1
Loading machinery .....	1
Loading and unloading teams.....	12
Lunch cart location .....	5
Memorial Day exercises .....	1
Mixing mortar .....	1
Moving buildings .....	7
Moving furniture .....	9
Moving ice chest .....	1
Moving long timbers .....	7
Moving piano .....	10
Moving safes .....	17
Moving scenery .....	3
Moving shed .....	2
Moving soda fountain .....	5
Moving street railway rails .....	1
Old-Home Week celebration .....	1

Open manholes .....	14
Painting building .....	8
Painting store front .....	5
Parade .....	10
Piling up lumber .....	9
Public speaking in common .....	4
Putting guy rope across streets .....	2
Putting in foundation .....	5
Putting in turnout .....	1
Putting in water pipe .....	2
Putting in window .....	2
Putting up staging .....	2
Relay tracks .....	1
Relaying water pipe .....	1
Removing snow from roof .....	29
Renewing switch .....	1
Repairing building .....	23
Repairing cellar wall .....	1
Repairing chimney .....	1
Repairing foundation .....	2
Repairing railroad gates .....	1
Repairing roof .....	7
Repairing sewer .....	59
Repairing sidewalk .....	1
Repairing street railway tracks.....	5
Repairing store .....	5
Repairing water pipe .....	5
Running concrete mixer .....	1
Setting up derrick .....	3
Setting up refreshment booth .....	4
Setting up tar kettle .....	6
Splicing cable .....	1
Tearing down building .....	1
Unloading boiler .....	2
Unloading coal .....	1
Unloading engine .....	1
Unloading flour .....	1
Unloading granite .....	4
Unloading wood .....	3
Unpacking goods .....	53

BOARD OF PUBLIC WORKS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Book binding .....	Temple & Farrington Co..	28.39	\$55.50	Board of Public Works...	Garbage licenses Board of Public Works
Express .....	American Express Co.....	33.72	13,700.00	Common Council .....	
Electric fixtures.....	Farrall Bros.....	23.69			
Freight .....	Boston & Maine R. R.....	.66			
Garbage license plates .....	Baltimore Enamel & Nov- elty Co.....	106.25			
Ice .....	Manchester Coal & Ice Co.	5.04			
Miscellaneous ex- penses .....	H. H. Clement .....	\$17.95			
	S. J. Lord .....	18.00			
Office supplies.....	J. J. Abbott.....	\$0.48			
	American Ribbon & Carbon Co.....	3.75			
	The Barton Co.....	1.29			
	Burroughs Adding Machine Co.....	3.70			
	Edgar C. Fessant.....	1.00			
	George D. Fluis.....	2.70			
	W. P. Goodman.....	56.00			
	Hale & Whittemore.....	15.00			
	Jere Hodge .....	9.32			
	Ideal Stamp Co.....	3.35			
	Kee Lox Manufacturing Co.....	4.50			
	Francis Pratt, Jr.....	1.50			
	Rapid Mailing Bureau.....	2.50			
	Temple & Farrington Co..	19.00			
	John B. Varick Co.....	1.05			
	Samuel Ward Co.....	4.56			
	F. S. Webster Co.....	.45			
	Charles H. Whittier.....	10.50			
	J. Arthur Williams.....	1.00			
Postage .....	E. H. Chadbourne, P. M.....	141.65			
Printing .....	The John B. Clarke Co.....	45.00			
	The Ruemely Press.....	456.00			
	J. Arthur Williams.....	15.50			
		486.50			

BOARD OF PUBLIC WORKS.—Continued.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Repairs to office equipment .....	Finney Upholstering & Window Cleaning Co....	\$2.30			
	Peter J. Thornton Co.....	.40			
	John B. Varick Co.....	52.00			
		54.70			
Salaries of members of Board of Public Works .....	William McElroy .....	\$750.00			
	Byron Worthen .....	750.00			
	Samuel J. Lord.....				
Salary of engineer... Salaries of superintendents .....	George P. Ames.....	\$500.01			
	Charles Francis.....	1,200.00			
	Alphonse Laberge .....	700.00			
		2,400.01			
Salary of foreman... Salaries of clerks...	C. A. Libbey .....				
	H. H. Clement.....	\$1,376.09			
	F. A. Depake.....	737.43			
	Honore Mailhot .....	9.00			
	Leon B. Stevens.....	811.08			
		2,933.60			
Salary of timekeeper Subscriptions .....	E. A. Blanchet.....				
	Municipal Journal & Engineer .....	830.76			
	M. D. Powers.....	\$3.00			
		2.00			
Team Hire.....	Louis Vogel.....	5.00			
Telephones .....	N. E. T. & T. Co.....	3.00			
		275.12			
Balance .....	Common council .....				
		\$11,028.30			
		2,727.20			
		\$13,755.50			



## APPROPRIATION FOR THE BOARD OF PUBLIC WORKS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Book binding .....	\$28.39	.002574
Express .....	33.72	.003057
Electric fixtures .....	23.69	.002148
Freight .....	.66	.000059
Garbage license plates.....	106.25	.009636
Ice .....	5.04	.000458
Miscellaneous expenses .....	35.95	.003259
Office supplies .....	141.65	.012846
Postage .....	45.00	.044114
Printing .....	486.50	.044114
Repairs of office equipment.....	54.70	.004959
Salaries .....	9,783.63	.887138
Subscription .....	5.00	.000453
Team hire .....	3.00	.000272
Telephones .....	275.12	.024947
	\$11,028.30	.....
Appropriation .....	.....	\$13,700.00
Credit .....	.....	55.50
Balance .....	2,727.20	.....
	\$13,755.50	\$13,755.50



# **HIGHWAY DEPARTMENT**

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**BRIDGES, CITY TEAMS, CITY YARD, GRADING FOR  
CONCRETE, MACADAMIZING AND NEW HIGHWAYS,  
OILING STREETS, PAVING STREETS, REPAIRS  
ON HIGHWAYS, WATERING STREETS**

BRIDGES.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For.
Cement .....	Henry W. Parker.....	\$1,463.00	\$1.50	Thomas Bolton.....	Broken stone.....
New culvert (contract).....	Hanscom Construction Co....	805.14	130.00	F. T. Ley Co.....	Castings .....
Freight .....	Boston & Maine R. R.....	34.48	4.78	Maurice Hoffman.....	Cement .....
Labor and material.....	Chempagne & Charnley.....	\$2.00	213.00	Henry W. Parker.....	Cement bags .....
	The S. P. Dodge Co.....	.90	150.00	Charles W. Brown, Agt.	Curbing .....
	J. H. Mendell Co.....	29.40	132.80	Henry Bach.....	Hogs .....
	West Side Lumber Co.....	5.00	1.28	J. Michel Dery.....	Labor and material..
Liability insurance.....	Putnam & LaFlamme.....	37.30		N. E. T. & T. Co.....	Refund .....
	Bachelor-Worcester Co.....	84.50	47.22	Daniel Laroche.....	Rent .....
Lumber .....	W. H. Maxwell Co.....	161.50	20.00	R. M. Bennett.....	Sewer pipe .....
	George McQuestion Co.....	482.16	.93	Fellows & Son.....	Bridges .....
	West Side Lumber Co.....	433.76	2.20	Common council.....	
		154.42	12,000.00		
Paint .....	Detroit Graphite Co.....	931.84			
Painting Granite-Street	The United Construct'n Co.	436.95			
bridge (contract) .....	Division No. 2 .....	1,261.42			
Pay-roll .....	Division No. 5 .....				
	Division No. 7 .....	744.52			
	Division No. 9 .....	3.19			
	Division No. 10.....	753.15			
	Harrington-Robinson Co....	8.56			
	Manchester Hardware Co.	192.78			
	Manchester Supply Co.....	1,702.20			
	John B. Varick Co.....	489.67			
Steel beams .....	Charles R. Gow Co.....	195.23			
Supplies .....	Willow-street culvert.....	261.98			
Test borings.....		\$7,703.71	\$12,703.72		
Balance .....		5,000.00			
		\$12,703.71	\$12,703.71		

## BRIDGES.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Cement .....	\$1,463.00	.189909
New culvert (contract).....	805.14	.104513
Freight .....	34.48	.004475
Labor and materials .....	37.30	.004843
Liability insurance .....	84.50	.010969
Lumber .....	931.84	.120959
Paint .....	436.95	.056719
Pay-roll .....	1,261.42	.162742
Painting Granite street bridge.....	1,702.20	.220958
Steel beams .....	489.67	.063562
Supplies .....	195.23	.025344
Test borings .....	261.98	.034007
	<hr/>	<hr/>
Appropriation .....	\$7,703.71	.....
Credits .....	.....	\$12,000.00
Balance .....	5,000.00	703.71
	<hr/>	<hr/>
	\$12,703.71	\$12,703.71

CITY TEAMS.  
FINANCIAL STATEMENT.

For	To.	Cr.	Dr.	By	For.
Auto repairs.....	W. L. Aller..... Amoskeg Mfg. Co..... Bisson & Jodoin.....	\$21.50 .25 45.70	\$27.48	Mrs. George E. Gould... D. M. Poore Coal Co....	Broken stone.....
	Brodie Elec. & Auto Co. Exide Batt. Depot, Inc.	5.00 1.55	64.00 1.53	State of N. H..... Town of Litchfield..... Herman Babel.....	Car service .....
	Goodyear Tire & Rubber Co..... Manchester Auto Gar. J. B. McCrillis & Son...	239.88 392.91 185.00	73.05	Manchester St. Ry..... Peoples Gas Light Co....	Castings .....
	Rockingham Garage, Machine & Repair shop .....	31.75	4,629.38 16.63 70.00	Manchester St. Ry..... Boston & Maine R. R... Daniel Laroche .....	Labor and material..
Castings .....	Concord Foundry & Machine Co..... L. B. Bodwell..... W. E. Dunbar & Son...	..... \$488.68 961.30	10.70	John Seastrom .....	Paving blocks .....
Coal .....	West Disinfectant Co.. M. T. L. & P. Co.....	\$923.54 4.25 1,449.33 34.00 425.50	.....	B. T. Bartlett..... T. E. Cochran..... Town of Francestown... Adelard Gosselin..... A. P. Horne..... F. D. Leighton.....	Refund .....
Disinfectant .....	Fearrell Brothers..... Boston & Maine R. R.. Peoples Gas Light Co. Gulf Refining Co..... Red Arrow Garage..... Standard Oil Co.....	79.23 41 12.32 \$150.75 2.25 57.92	.....	John Seastrom .....	Rent .....
Electric lighting and fixtures.....		.....	.....	John Seastrom .....	Rent of field glasses
Freight .....		.....	.....	B. T. Bartlett..... T. E. Cochran..... Town of Francestown... Adelard Gosselin..... A. P. Horne..... F. D. Leighton.....	Sewer pipe .....
Gas .....		.....	.....	Jos. Lightstone .....	
Gasoline .....		.....	.....	Town of Litchfield..... W. A. Lovering..... J. T. Manseau..... A. J. McKelvie..... William McPherson.....	
		210.33	2.56	Louis Monty .....	

Grain .....	Arthur S. Brown.....	\$357.85					
	Cavanaugh Bros. ....	30.00					
	F. H. Masse & Co....	2,639.33					
Hay .....	Rt. Rev. G. A. Guertin	\$77.55	3,027.78				
Harness repairs..	Alva Silva .....	140.75	35.06				
	Jos. Vogel & Co.....						
Ice .....	Man. Coal & Ice Co....		213.30	124.35			
Insurance .....	W. G. Berry.....	\$122.55	6.84	18,000.00			
	Everett & Bunton....	20.00					
	John A. Sheehan.....	97.60					
Kerosene .....	Standard Oil Co.....		240.15				
Lab. and material	J. J. Abbott.....	\$5.00	44.55				
	Bunton & Bernard....	262.08					
	Champagne & Charnley	12.50					
	C. F. McDonald.....	5.20					
	West Side Lumber Co...	44.85					
	John S. Wheeler.....	21.60					
Lumber .....	West Side Lumber Co.		351.23				
New equipment..	C. F. McDonald.....	\$300.00	33.52				
	Garrett Phalen .....	754.77					
	Richardson & Boynton						
	Co. ....	285.45					
	U. S. Metal Products						
	Co. ....	520.00					
Pay-roll .....	Division No. 2.....	10,483.86	1,860.22				
	Division No. 10.....	9.00					
Rent of City Farm	Committee on City Farm		10,492.86				
Repairs on roof..	F. L. Noyes.....		1,020.00				
Repairs to equip-			432.14				
ment .....	S. P. Dodge Co.....	\$84.33					
Supplies .....	Man. Machine Works..	11.69					
	Amer. Locomotive Co..	\$0.90					
	Amoskeag Mfr. Co....	25.23					
	C. DeMouplied Co....	15.00					
	A. G. Dyer.....	2.45					
	Granite State Rubber						
	Co. ....	4.38					
	Hamblett & Haynes Co.	106.09					
	James W. Hill Co....	4.75					
	Jere Hodge .....	35.73					
	John Muir.....	2.66					
	E. E. Pierce.....	3.68					
	A. W. Prescott.....	7.98					
	C. E. Purington.....	23.94					
	S. P. Rhodes.....	1.36					
	N. A. Tirrell.....	3.40					
	Common council.....						
	City teams.....						
	Sewer pipe.....						

## CITY TEAMS.—Continued.

For	To	Cr.	Dr.	By	For.
	Chas. A. Hoitt Co.....	3.15			
	Kimball Carriage Co..	8.00			
	Manchester Hdw. Co..	.54			
	Manchester Supply Co.	15.86			
	A. J. McKelvie.....	2.75			
	Fred F. Osgood.....	14.23			
	Henry W. Parker.....	26.15			
	Pike & Heald Co.....	24.95			
	M. E. Sturtevant.....	5.00			
	Swift & Co.....	3.40			
	John B. Varick Co.....	1,214.44			
Team hire .....	E. A. Blanchet.....	\$166.88	1,513.00		
Veterinary ser- vices and medi- cine .....	Alphonse Laberge.....	93.00	259.88		
	Leo A. Cavanaugh.....	\$17.00			
	Dr. J. L. Golden.....	34.75			
	John B. Hall Co.....	5.05			
	A. J. Precourt.....	3.80			
Water.....	Water commissioners...	60.60			
		71.60			
Balance.....	Common council.....	\$22,963.26			
		53.86			
		\$23,017.12	\$23,017.12		



## CITY TEAMS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Auto repairs .....	\$923.54	.040219
Castings .....	4.25	.000185
Coal .....	1,449.93	.063141
Disinfectant .....	34.00	.001481
Electricity .....	425.50	.018529
Electric lighting and fixtures.....	79.23	.003450
Freight .....	.41	.000018
Gas .....	12.32	.000537
Gasoline .....	210.93	.009186
Grain .....	3,027.78	.131853
Hay .....	35.06	.001527
Harness repairs .....	218.30	.009506
Ice .....	6.84	.000298
Insurance .....	240.15	.010458
Kerosene .....	44.55	.001941
Labor and material.....	351.23	.015295
Lumber .....	93.52	.004073
New equipment .....	1,860.22	.081008
Pay-roll .....	10,492.86	.456941
Rent of city farm.....	1,020.00	.044418
Repairs on roof.....	432.14	.018819
Repairs to equipment.....	95.42	.004155
Supplies .....	1,513.00	.065888
Team hire .....	259.88	.011317
Veterinary services and medicine.....	60.60	.002639
Water .....	71.60	.003118
	<u>\$22,963.26</u>	
Appropriation .....		\$18,000.00
Credits .....		5,017.12
	<u>\$23,017.12</u>	<u>\$23,017.12</u>

CITY YARD.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For.
Lumber .....	John Muir .....	\$7.70	\$1,000.00	Common council.....	City yard.....
Pay-roll .....	Division No. 2.....				
Repairs to equip- ment .....	Division No. 10.....	3,409.47	3,230.48	Common council.....	Overdraft .....
	American Locomotive Co.....				
	M. T., L. & P. Co.....	11.95			
	George B. True.....	801.36			
Sal. of inspector..		\$1,230.48	\$4,230.48		

## CITY YARD.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Lumber .....	\$7.70	.001820
Pay-roll .....	3,409.47	.805930
Repairs to equipment.....	11.95	.002825
Salary of inspectir.....	801.36	.189425
	<hr/>	<hr/>
Appropriation .....	\$4,230.48	.....
Overdraft .....	.....	\$1,000.00
	<hr/>	<hr/>
	\$4,230.48	3,230.48
		<hr/>
		\$4,230.48

GRADING FOR CONCRETE.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For.
Coal .....	L. B. Bodwell.....	\$15.85		Amoskeag Mfg. Co.....	Broken stone.....
Curbing and corner curbing....	C. A. Bailey.....	\$9.00	\$114.35	Carl Osberg.....	
	Pease Co. ....	539.68	19.56	Peoples Gas Light Co...	Castings .....
Freight .....	Boston & Maine R. R. ....	539.68	41.32	Henry W. Parker.....	Empty cement bags..
Pay-roll .....	Division No. 2.....	48.83		Manchester Street Ry...	Labor and material..
	Division No. 7.....	\$6,558.16		Peoples Gas Light Co...	
	Division No. 10.....	54.12		William E. Quirin.....	
		1,224.68		W. C. Wilson.....	
Sidewalk .....	Robie Consolidated Concrete Co. ....	7,836.96		Man. Iron and Metal Co.	Old iron.....
Supplies .....	Amoskeag Mfg. Co.....	126.11		William C. Spear.....	Rent .....
	Bisson & Jodoin.....	\$8.78		State of N. H.....	State aid .....
	Detroit Graphite Co..	3.65		Common council.....	Grading for concrete.
	John B. Varick Co.....	15.00			
		18.00			
		45.49	1,096.02		
		\$8,612.92	99.82		
			70.00		
			167.85		
			7,000.00		
			\$8,612.92		

GRADING FOR CONCRETE.  
PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Coal .....	\$15.85	.001840
Curbing and corner curbing.....	539.68	.062659
Freight .....	48.83	.005669
Pay-roll .....	7,836.96	.909908
Sidewalk repairs .....	126.11	.014642
Supplies .....	45.49	.005282
	<hr/>	
	\$8,612.92	.....
Appropriation .....	.....	\$7,000.00
Credits .....	.....	1,612.92
	<hr/>	
	\$8,612.92	\$8,612.92

## ANNUAL OFFICIAL REPORT.

APPROPRIATION, GRADING FOR CONCRETE—SETTING AND RES ETING EDGESTONES AND CORNER CURB,  
AND PAVING AND REPAVING GUTTERS.

Street.	Locat.on.	Length of circle feet.	Cost of circle circles.	Cost of C. P. Stone.	Length of edge- stone.	Gutter of paved square yard.	Cost material gutters.	Labor.	Hired teams.	Total.
Amherst	Cor. Elm street (reset)	31.38	\$18.84	.....	200	73.3	\$1.50	\$40.19	.....	\$60.53
Ashland	Hanover to Concord.	119.22	71.53	.....	.....	.....	.....	266.73	120.04	458.30
Auburn	Chestnut street easterly.	.....	.....	.....	100	16.6	3.00	15.84	.....	18.84
Auburn	Northwest corner Elm street (reset)	.....	.....	.....	.....	*	.....	.....	.....	10.25
Baker	Wilson street to B. & M. R. R. track	.....	.....	.....	.....	240.00	30.00	183.20	81.68	294.88
Bay	Between Clarke and Carpen- ter street	9.42	5.64	.....	.....	*	3.50	23.11	.....	32.25
Bay, north side.	Clarke to Carpenter.	.....	.....	.....	†	.....	.....	32.29	.....	32.29
Beech, east s.de	Hayward southerly	.....	.....	.....	.....	83.3	7.56	48.52	14.48	70.50
Bell	Cor. Second street (reset)	.....	.....	.....	.....	.....	.....	5.96	.56	6.52
Belmont	North east corner Hanover.	.....	.....	.....	.....	.....	.....	99.97	37.80	137.77
Bridge	At No. 132.	.....	.....	.....	50	16.6	3.00	10.18	2.80	15.98
Brown	Corner Buzzell street.	.....	.....	.....	150	256	36.00	210.92	.....	27.72
Byron	Southwest corner Union St.	.....	.....	.....	.....	*	.....	70.51	45.00	291.92
Carpenter	At Nos. 259, 267, 275.	.....	.....	.....	150	50	5.00	58.73	25.60	96.11
Carrier	Elm street westerly	.....	.....	.....	113	138	16.00	262.68	7.28	71.01
Central, west	Chestnut easterly	100.44	60.26	.....	100	.....	.....	8.91	.....	468.94
Cedar, south back	Corner Union and rear schoolhouse	.....	.....	.....	.....	56.5	3.50	49.95	.....	8.91
Cedar, north side	Southeast corner Pennacook street (repaved)	20.40	12.24	\$7.50	240	11.07	3.00	64.03	12.89	53.45
Chestnut	At 288-290	.....	.....	.....	.....	*	.....	18.42	3.92	99.66
Conant	Between Maple and Dutton.	.....	.....	.....	.....	*	.....	35.58	10.00	22.94
Concord, north side.	At Agawam street.	.....	.....	.....	.....	40	4.50	8.93	.....	45.38
Davis	Barr to Green (patching)	.....	.....	.....	.....	.....	.....	15.35	.....	13.43
Douglas	North east corner Clarke street	31.38	18.82	.....	233	45	6.00	35.35	.....	60.17
Elm	Northwest corner Monroe St.	.....	.....	.....	.....	.....	.....	2.98	.....	2.98
Elm	Webster to Carpenter.	133.56	92.14	26.00	200	50	15.00	212.88	74.56	420.58
Essex	At Amory street (repair).	.....	.....	.....	.....	.....	.....	2.65	.56	3.21
Front	At Brick store.	.....	.....	.....	50	.....	.....	11.92	.....	11.92
Granite	Elm street westerly (reset)	36.09	21.65	.....	264	35	.....	16.39	.....	38.04

Grove, south side.....	15.69	9.42	.....	125	46.6	5.00	33.91	48.33
Grove .....	9.42	5.65	.....	133	53	5.00	51.37	62.02
Hall .....	.....	.....	.....	45	*	9.50	46.53	58.45
Hayward .....	.....	.....	.....	†	*	.....	5.75	5.75
Hevey, west side.....	.....	.....	.....	†	*	.....	14.48	65.64
Hevey, west side.....	.....	.....	.....	†	*	.....	7.80	29.39
Jane .....	.....	.....	.....	25	*	.....	6.93	6.93
Joliette .....	.....	.....	.....	124.0	16.7	.....	2.24	15.92
Kelley, north side.....	.....	.....	.....	.....	*	.....	11.94	42.54
Kelley .....	.....	.....	.....	.....	*	.....	2.80	11.86
Laval, east side.....	.....	.....	.....	.....	.....	.....	30.07	32.31
Laval, east side.....	.....	.....	.....	.....	.....	.....	.....	.....
Main .....	.....	.....	.....	.....	*	.....	177.06	232.34
Maple, west side.....	.....	.....	.....	.....	*	.....	55.28	.....
Massachusetts .....	.....	.....	.....	.....	*	.....	21.87	24.07
Maynard school .....	.....	.....	.....	.....	*	.....	3.36	46.84
Milford, north side.....	156.90	94.14	.....	53.0	.....	.....	55.40	154.54
Milford, south side.....	.....	.....	.....	.....	*	.....	10.00	55.45
Montgomery .....	.....	.....	.....	.....	*	.....	45.00	45.00
Montgomery .....	.....	.....	.....	53.0	15.2	.....	35.68	35.68
Montgomery .....	.....	.....	.....	.....	.....	.....	14.58	14.58
Montgomery .....	.....	.....	.....	.....	.....	.....	6.71	6.71
Montgomery .....	.....	.....	.....	.....	.....	.....	49.12	73.52
Montgomery .....	.....	.....	.....	.....	*	.....	70.00	80.12
Noire Dame avenue.....	.....	.....	.....	.....	*	.....	8.86	10.54
Orange .....	.....	.....	.....	50.0	13.8	.....	13.90	13.90
Orange .....	.....	.....	.....	.....	*	.....	6.30	6.30
Orange .....	.....	.....	.....	11.31	.....	.....	73.78	99.96
Pearl .....	12.54	7.54	.....	.....	.....	.....	14.87	18.43
Pine, east side.....	.....	.....	.....	.....	*	.....	55.09	100.59
Prince .....	.....	.....	.....	.....	*	.....	9.15	9.15
Ray .....	.....	.....	.....	.....	.....	.....	11.43	11.43
Reed .....	.....	.....	.....	50	20.0	.....	18.44	18.44
Rimmon .....	.....	.....	.....	.....	.....	.....	34.59	34.59
Rimmon .....	.....	.....	.....	.....	.....	.....	6.18	6.18
Rimmon .....	.....	.....	.....	50	16.6	.....	29.88	35.12
Rimmon .....	.....	.....	.....	.....	*	.....	11.71	15.63
Rimmon .....	.....	.....	.....	.....	*	.....	9.06	9.06
Salmon .....	.....	.....	.....	.....	*	.....	16.80	19.04
Salmon .....	15.69	9.42	.....	.....	*	.....	84.48	127.26
Sagamore, south side.....	20.40	12.24	.....	78	26.0	.....	20.19	55.53
Spruce .....	.....	.....	.....	25	9.3	.....	19.10	9.93
.....	15.69	.....	.....	40	.....	.....	9.00	9.00

\*Setting curbing.  
†Paving cobbles gutter.

APPROPRIATION, GRADING FOR CONCRETE—SETTING AND RESETTING EDGESTONES AND CORNER CURB, AND PAVING AND REPAVING GUTTERS.—*Concluded.*

Street.	Location.	Length of circle feet.	Cost of circles.	Cost of C. P. Stone.	Length of edge-stone.	Gutter paved square yard.	Cost material gutters.	Labor.	Hired teams.	Total.
Union .....	Northwest corner Carpenter.	15.69	9.42	.....	228	75.9	17.70	66.91	5.00	99.03
Union west back.....	Between Spruce and Cedar...	.....	.....	.....	52	.....	.....	8.93	.....	8.93
Walnut, south back.....	Corner Concord street.....	.....	.....	.....	84	.....	.....	11.89	.....	11.89
Webster, West, n. s.....	Elm street westerly (reset).	.....	.....	.....	233	95.0	.....	42.16	.....	42.16
Whittemore avenue.....	.....	25.13	14.06	.....	146	17.9	.....	150.98	32.92	187.96
Willow .....	Cor. Grove street.....	31.38	18.82	.....	339	.....	.....	355.01	60.60	434.43
			\$481.83	\$44.81	.....	.....	\$215.70	\$3,811.06	\$900.44	\$5,453.84

APPROPRIATION GRADING FOR CONCRETE—GRADING SIDEWALK AND MISCELLANEOUS WORK.

Street.	Location.	Nature of Work.	Labor.	City Teams.	Hired Teams.	Total.
Amory .....	At No. 257.....	Building driveway	\$3.64	.....	.....	\$3.64
Ash .....	Corner Salmon street.....	Grading sidewalk	36.72	.....	.....	56.72
Beech, east side.....	Between Salmon and Union...	Cutting down sidewalk.....	45.84	.....	.....	50.84
Boutwell .....	North from Kelley.....	Grading	110.62	.....	.....	160.62
Bridge .....	Corner Chestnut street.....	Grading sidewalk	13.23	.....	.....	18.23
Carder .....	At No. 229.....	Grading sidewalk	7.72	.....	.....	13.32
Cedar, north side.....	Corner Union street.....	Building cesspool	15.10	.....	.....	15.10
Depot .....	Corner Elm street.....	Repairing paving	18.20	.....	.....	21.76
Dover .....	At No. 31.....	Putting on curbs	12.18	.....	.....	22.18
Elm .....	At No. 1943.....	Paving driveway	5.96	.....	.....	5.96
Elm, east side .....	Baker street southerly.....	Grading sidewalk	11.76	.....	.....	25.64
Elm .....	Corner Trenton .....	Building driveway	36.75	.....	.....	54.55
Elm .....	Residence of Dr. Boutwell.....	Laying new paving.....	7.20	.....	.....	7.20





MACADAMIZING AND NEW HIGHWAYS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Applying road oil.....	American Car Sprinkler Co.	.....	\$72,500.00	Common council.....	Macadamizing and
Brick .....	Cavanaugh Brothers .....	\$73.74			new highways.
	W. F. Head & Son.....	171.50			
Broken stone .....	Essex Trap Rock & Con- struction Co.....	545.24			
	Mass. Broken Stone Co.....	9,180.46			
	Palmer & Garmon.....	8,182.58			
	Waltham Trap Rock Co...	206.44			
		9,879.80			
Car service.....	Boston & Maine R. R.....	.....	4,999.77	Common council.....	Overdraft.
Castings .....	Concord Foundry Machine Co. ....	.....	4.00		
Claims .....	H. D. W. Carville.....	\$32.00			
	Mrs. Joseph Scott.....	7.00			
Coal .....	L. B. Bodwell.....	.....			
Curbing .....	Charles A. Bailey.....	\$555.41			
	Pease Co. ....	507.46			
		.....			
Electric power.....	M. T. L. & P. Co.....	1,062.87			
Freight .....	Boston & Maine R. R.....	353.94			
Gasoline .....	Gulf Refining Co.....	490.57			
Insurance .....	S. B. Stearns.....	60.30			
Kerosene .....	The Texas Co.....	180.00			
Labor and material.	Bunton & Bernard.....	50.47			
	New Eng. Investment Co.	\$147.64			
		494.25			
Lime-stone screenings	Rockland & Rockport Lime Co. ....	.....			
	Charles Warner Co.....	\$126.86			
		51.04			
New equipment.....	Dyar Supply Co.....	\$248.07			
	The Good Roads Machinery Co. ....	2,500.00			
	New England Road Machin- ery Co. ....	3,250.00			
		.....			
		5,998.07			

Pay-roll .....	Division No. 2.....	\$21,428.22	
	Division No. 7.....	4,680.34	
	Division No. 10.....	2,739.26	
Repairs to equipment	Manchester Machine Wks. Red Arrow Garage.....	\$10.62 4.50	28,847.82
Road oil .....	Indian Refining Co.....	15.12	
Roemac .....	Haines & Teall Co.....	1,236.35	
State aid contract...	James F. Cavanaugh.....	1,432.22	
Street paving repairs	Robie Con. Concrete Co..	6,088.80	
Supplies .....	Buffalo Steam Roller Co..	22.07	
	Pike & Heald Co.....	1.75	
	John B. Varick Co.....	147.18	
	West Side Lumber Co.....	6.28	
Tarvia .....	Barrett Mfg. Co.....		160.25
			287.28
			<u>\$77,499.77</u>
			<u>\$77,499.47</u>

## MACADAMIZING AND NEW HIGHWAYS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Applying road oil.....	\$1,343.36	.017334
Brick .....	545.24	.007035
Broken stone .....	27,449.28	.354186
Car service .....	4.00	.000052
Castings .....	362.14	.004673
Claims .....	39.00	.000503
Coal .....	650.83	.008397
Curbing .....	1,062.87	.013714
Electric power .....	353.94	.004567
Freight .....	490.57	.006329
Gasoline .....	60.30	.000778
Insurance .....	180.00	.002323
Kerosene .....	50.47	.000651
Labor and material .....	641.89	.008282
Limestone screening .....	177.90	.002295
New equipment .....	5,998.07	.077394
Pay-roll .....	28,847.82	.372232
Repairs to equipment.....	15.12	.000195
Road oil .....	1,236.35	.015953
Roomac .....	1,432.22	.018480
State Aid contract .....	6,088.80	.078566
Street paving repairs.....	22.07	.000286
Supplies .....	160.95	.002068
Tarvia .....	287.28	.003707
	<hr/>	<hr/>
Appropriation .....	\$77,499.77	.....
Overdraft .....	.....	\$72,500.00
	<hr/>	<hr/>
	\$77,499.77	\$77,499.77

PAVING STREETS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Cement .....	Henry W. Parker.....	\$646.00	\$288.49	Bunton & Bernard.....	Broken stone.
Freight .....	Boston & Maine R. R.....	.85	9.00	Kennedy & Peterson Co..	
Labor and material..	Bunton & Bernard.....	\$18.11	470.74	Pine Grove Cemetery..	
	Hanscom Cons. Co.....	681.31	\$768.23		
Paving blocks.....	Charles A. Bailey.....	699.42	\$1.80	Bunton & Bernard.....	Castings.
Paving pitch.....	Barrett Mfg. Co.....	14,772.13	1.70	Town of Derry.....	
Paving (tar concrete)	Robie Cons. Concrete Co..	16.67	162.84	Manchester St., Ry.....	
Pay-roll .....	Division No. 2.....	1,979.98	166.34		
	Division No. 7.....	\$3,053.47	241.00	Kennedy & Peterson Co..	Cement.
	Division No. 10.....	96.98		Manchester St. Ry.....	Lab. and material.
Repairs to equipment		1,576.02	169.67	J. B. Varick Co.....	
Supplies .....	Dyar Supply Co.....	\$21.45	216.75	G. W. Goodwin.....	License.
	Manchester Mach. Wks....	12.32	1.50	John C. Shanahan.....	
	Manchester Hdw. Co.....	1.50	3.00	Manchester St. Ry.....	Paving blocks.
	John B. Varick Co.....	3.18	372.60	W. C. Sbear.....	Rent.
		4.68	35.00	Pine Grove Cemetery..	Sewer pipe.
			29.47	J. B. Varick Co.....	
			245.47	State of N. H.....	State aid.
			758.88	Bunton & Bernard.....	Suction pump.
			72.70	Common council.....	Paving streets.
			20,000.00		
		\$22,879.97	\$22,879.97		

## PAVING STREETS.

## PERCENTAGE STATEMENT.

	Classified Expenditures.	Per cent of Total Expenditures.
Cement .....	\$646.00	.028234
Freight .....	.85	.000038
Labor and material.....	699.42	.030569
Paving blocks .....	14,772.13	.645636
Paving pitch .....	16.67	.000728
Paving tar concrete.....	1,979.98	.086538
Pay-roll .....	4,726.47	.206576
Repairs to equipment .....	33.77	.001476
Supplies .....	4.68	.000205
	<hr/>	<hr/>
Appropriation .....	\$22,879.97	.....
Credits .....	.....	\$20,000.00
	.....	2,879.97
	<hr/>	<hr/>
	\$22,879.97	\$22,879.97

REPAIRS OF HIGHWAYS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Auto repairs.....	Manchester Auto Garage.....	.....	\$4.50	Thomas Bolton.....	Broken stone.
Broken stone .....	Essex Trap Rock & Construction Co.....	\$3,759.95	24.00	The F. T. Ley Co.....	Castings.
	Mass. Broken Stone Co.....	3,885.33	90.00	Henry Bach.....	Hogs.
	Waltham Trap Rock Co.....	3,505.07	4.36	Manchester St. Ry.....	Labor and material.
				H. F. Johnson.....	
Coal .....	L. B. Bodwell.....	11,150.35	1.50	Sullivan, Casey & Stewart.....	License.
Express .....	American Express Co.....	403.94	3.00	Manchester St. Ry.....	Paving blocks.
Electric power.....	M. T. L. & P. Co.....	2.45	2,091.96	W. C. Spear.....	Rent.
Freight .....	Boston & Maine R. R.....	491.74	70.00	Manchester St. Ry.....	Track paving.
Gasoline .....	Gulf Refining Co.....	138.40	9,668.76	Common council... ..	Repairs of highways.
Liability insurance.....	L. B. Stearns.....	23.40			
Lubricants .....	Bay State Lubricant Co.....	1.95			
	Vacuum Oil Co.....	\$12.00	40,000.00		
		11.86			
Lumber .....	Amoskeag Mfg. Co.....	\$6.09			
	West Side Lumber Co.....	227.63			
	Woodstock Lumber Co.....	104.94			
	U. S. Bobbin & Shuttle Co.....	2.75			
New equipment.....	Dyar Supply Co.....	\$3,998.08			
	Manchester Street Ry.....	92.58			
	N. E. Road Machinery Co.....	160.00			
			341.41		
Paving (tar concrete)	Robie Cons. Concrete Co.....	.....	4,250.66		
Pay-roll .....	Division No. 2.....	\$13,430.22			
	Division No. 4.....	640.99			
	Division No. 5.....	159.04			
	Division No. 7.....	5,249.20			
	Division No. 9.....	755.63			
	Division No. 10.....	8,175.76			
Repairs to equipment	Buffalo Steam Roller Co.....	\$124.00	28,410.86		
	Amoskeag Mfg. Co.....	3.71			
	S. P. Dodge Co.....	1.75			
	Good Rds. Machinery Co.....	2.00			
	Manchester Machine Wks.....	45.10			
	N. E. Road Machinery Co.....	495.21			
					671.77

REPAIRS OF HIGHWAYS.—Continued.

For	To	Cr.	Dr.	By	For
Road oil .....	Indian Refining Co.....	.....			
Sand .....	Daniel Connor Estate.....	\$17.20			
	John S. Lovering.....	23.70			
Supplies .....	Charles M. Floyd.....	\$1.50			
	Pike & Heald Co.....	3.89			
	Standard Oil Co.....	4.50			
	Stark Mills .....	5.75			
	J. B. Varick Co.....	325.20			
Water .....	Water commissioners.....	.....			
		612.95			
		40.90			
		340.84			
		30.00			
		<u>\$51,956.58</u>			
					<u>\$51,956.58</u>



## REPAIRS OF HIGHWAYS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Auto repairs .....	\$376.53	.007248
Broken stone .....	11,150.35	.214609
Coal .....	403.94	.007774
Express .....	2.45	.000047
Electric power .....	491.74	.009464
Freight .....	138.40	.002663
Gasoline .....	23.40	.000451
Liability insurance .....	1.95	.000037
Lubricants .....	23.86	.000459
Lumber .....	4,250.66	.081812
New Equipment .....	341.41	.006571
Paving (tar concrete).....	4,644.57	.089394
Pay-roll .....	28,410.86	.546819
Repairs to equipment .....	671.77	.012929
Road oil .....	612.95	.011797
Sand .....	40.90	.000788
Supplies .....	340.84	.006561
Water .....	30.00	.000577
	<hr/>	<hr/>
	\$51,956.58	.....
Appropriation .....	.....	\$40,000.00
Credits .....	.....	11,956.58
	<hr/>	<hr/>
	\$51,956.58	\$51,956.58

WATERING STREETS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Freight and car service .....	Boston & Maine R. R. ....	.....	\$9.06	Town of Weare, N. H. ....	Castings.
Ice .....	Manchester Coal & Ice Co. . .	\$120.00	958.62	Henry W. Parker. ....	Cement bags.
	Maxwell Ice Co. ....	120.00	20.00	Daniel Laroche. ....	Rent.
Pay-roll .....	Division No. 2. ....	\$2,658.02	.88	Fred Hill. ....	Sewer pipe.
	Division No. 7. ....	1,470.12	1,325.64	State of New Hampshire	State aid.
	Division No. 10. ....	1,627.96	4,000.00	Common council. ....	Watering streets.
Repairs to fountains	Charles F. McDonald. ....	.....			
Repairs of equipment	Amoskeeg Mfg. Co. ....	\$103.94			
	Chandler, Eastman Co. ....	7.75			
Supplies .....	Pike & Heald Co. ....	\$22.61			
	J. B. Varick Co. ....	19.04			
		<u>41.65</u>			
		\$6,314.20	<u>\$6,314.20</u>		

## WATERING STREETS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Freight and car service .....	\$81.00	.012828
Ice .....	240.00	.038009
Pay-roll .....	5,756.10	.911612
Repairs of fountains.....	83.76	.013265
Repairs of equipment .....	111.69	.017689
Supplies .....	41.65	.006597
	<hr/>	<hr/>
Appropriation .....	\$6,314.20	.....
Credits .....	.....	\$4,000.00
	<hr/>	<hr/>
	\$6,314.20	2,314.20
	<hr/>	<hr/>
		\$6,314.20

OILING STREETS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Contract .....	American Car Sprinkler Co.....	\$13,244.07	\$5.47	Joseph Martel.....	Broken stone.
Freight and car ser- vice .....	Boston & Maine R. R.....	101.83	166.75	Byron Worthen.....	Coal.
New equipment.....	Dyar Supply Co.....	113.50	7.16	Peoples Gas Lt. Co.	Labor and material.
Pay-roll .....	Division No. 2.....	717.86	1.00	W. L. Paige.....	Rent of sewer pump.
Supplies .....	Manchester Supply Co.....	.16	\$0.68	Joseph Bobeck.....	Sewer pipe.
			2.04	N. A. Tirrell.....	
			\$14,000.00	Common council...	Oiling streets.
		<u>\$14,182.42</u>			
			<u>\$14,182.42</u>		

## OILING STREETS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Contract .....	\$13,244.07	.933837
Freight and car service.....	101.83	.007186
New equipment .....	118.50	.008355
Pay-roll .....	717.86	.050616
Supplies .....	.16	.000012
	<hr/>	<hr/>
	14,182.42	.....
Appropriation .....	.....	\$14,000.00
Credits .....	.....	182.42
	<hr/>	<hr/>
	\$14,182.42	\$14,182.42



# **SEWER DEPARTMENT.**



**NEW SEWERS AND REPAIRS OF SEWERS.**

NEW SEWERS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Brick .....	W. F. Head & Son.....	.....			
Castings .....	Concord Found. & Mach. Co.....	\$496.72			
Cement .....	Henry W. Parker.....	1,916.12			
Coal .....	L. B. Bodwell.....	2,003.80			
Freight and car service .....	Boston & Maine R. R.....	21.56			
Insurance .....	Putnam & Laflamme.....	1,767.25			
	S. B. Stearns.....	\$1,552.24			
		60.00			
Kerosene .....	Standard Oil Co.....	1,612.24			
	The Texas Co.....	\$21.24			
		39.20			
Lumber .....	West Side Lumber Co.....	\$140.88			
	Woodstock Lumber Co.....	1,042.13			
		60.44			
Pay-roll .....	Division No. 2.....	1,183.01			
	Division No. 7.....	\$2,977.82			
	Division No. 10.....	3,023.33			
		7,816.28			
Salary of inspector.....	C. A. Libbey.....	.....			
Sewer pipe.....	Eastern Clay Goods Co.....	\$131.52			
	A. P. Horne.....	2.68			
	Manchester Supply Co.....	.80			
	John H. Stevens.....	3,482.80			
		.....			
Supplies .....	A. T. Beaumier.....	\$38.00			
	Canady Otto Mfg. Co.....	.84			
	George W. Dodge Shoe Co.....	12.00			
	Granite State Rubber Co.....	49.86			
	John B. Varreck Co.....	198.23			
	G. F. Wenzel.....	1.65			
		.....			
Balance .....	Common council.....	.....			
		.....			
		300.58			
		<u>\$26,941.20</u>			
		25,558.80			
		<u>\$52,500.00</u>			
			\$52,500.00	Common council..	New sewers.



## NEW SEWERS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Brick .....	\$496.72	.018437
Castings .....	1,916.12	.071122
Cement .....	2,003.80	.074376
Coal .....	21.56	.000800
Freight and car service.....	1,767.25	.065597
Insurance .....	1,612.24	.059843
Kerosene .....	60.44	.002243
Lumber .....	1,183.01	.043912
Pay-roll .....	13,817.43	.512874
Salary of inspector .....	144.25	.005354
Sewer pipe .....	3,617.80	.134286
Supplies .....	300.58	.011156
	<u>\$26,941.20</u>	.....
Balance .....	25,558.80	.....
Appropriation .....	.....	\$52,500.00
	<u>\$52,500.00</u>	<u>\$52,500.00</u>

NEW SEWERS.  
ITEMIZED OPERATIONS.

LOCATION.	LIMITS.	Material.	Labor.	C. T.	H. T.	Total.
Amory .....	Corner Columbus avenue.....	\$20.75	\$32.84	.....	\$1.68	\$55.27
Amory .....	Northwest corner McGregor.....	9.50	1.76	.....	.....	11.26
Calef road.....	Pine Grove cemetery.....	12.60	48.24	.....	5.00	65.84
Essex .....	Southwest corner Kelley.....	4.84	6.70	.....	.....	11.54
Franklin .....	Market to West Merrimack.....	.....	121.57	.....	5.00	126.57
Hanover .....	Northeast corner Belmont.....	24.37	31.28	.....	.....	55.65
Kelley .....	.....	.....	64.60	.....	10.56	75.16
Main .....	At Fire King engine house.....	96.30	179.60	.....	16.24	292.14
Merrimack .....	Rear B. A. Bloomby's.....	17.46	19.98	.....	.....	37.44
Miscellaneous .....	Charge jobs .....	97.12	807.73	.....	32.92	937.77
Miscellaneous .....	Miscellaneous works .....	.....	1,395.20	\$68.30	27.52	1,440.81
Pine .....	Valley, southerly .....	53.17	42.62	.....	.....	95.79
Salmon .....	Southeast corner Ash.....	25.36	7.92	.....	.....	33.28
Sylvester .....	Bismarck west back and Forest street...	32.10	52.26	.....	9.20	93.56
Union .....	At culvert .....	.....	148.33	.....	15.00	163.33
Union east back.....	North street, northerly.....	24.85	24.66	.....	.....	49.51
Youville .....	Corner Kelley street.....	.....	6.48	.....	.....	6.48
		\$418.42	\$2,991.77	\$68.30	\$123.12	\$3,601.61

NEW SEWERS.  
ITEMIZED OPERATIONS.

LOCATION.	LIMITS.	Material.	Labor.	C. T.	H. T.	Total.
Adams .....	Carpenter, northerly.....	\$131.64	\$472.75	.....	.....	\$604.39
Allen .....	South Main, westerly.....	65.42	105.12	.....	\$14.52	185.06
Amherst .....	At Pine .....	39.30	62.81	.....	.....	102.11
Babel .....	Bismarck, westerly.....	139.82	121.26	.....	8.92	270.00
Boutwell east back.....	Bremser, northerly.....	.....	2.20	.....	2.80	5.00
Boynnton .....	Bank southerly.....	1,287.77	1,224.25	.....	62.36	2,574.38
Brook .....	Laval to Boutwell east back.....	218.25	448.34	.....	35.00	701.59
Brook .....	Milford, northerly.....	102.93	210.77	.....	19.00	332.70
Chester .....	Ashland, westerly.....	263.48	183.70	.....	13.88	461.06
Cilley road.....	Taylor, easterly.....	68.00	214.61	.....	.....	282.61
Cilley road.....	Wilson to Hall.....	390.60	656.97	.....	17.24	1,064.81
Columbus avenue.....	South of Kelley.....	77.44	116.27	.....	12.84	206.55
Frederick .....	Second to Woodbury.....	315.24	355.32	.....	3.36	673.92
Front .....	Black brook, southerly.....	1,349.96	1,728.96	.....	188.30	3,267.22
Grove .....	Belmont to Wilson.....	.....	37.72	.....	7.20	44.92
Grove .....	Elm to Willow.....	80.40	146.45	\$7.80	.....	234.65
Grove .....	Taylor street, westerly.....	.....	136.77	.....	2.80	139.57
Hall .....	Cilley road to Holly avenue.....	.....	392.97	.....	10.00	402.97
Hall .....	Merrimack to Laurel.....	301.21	240.62	.....	16.64	461.47
Harvard .....	Lincoln, easterly.....	.....	163.93	.....	5.00	168.93
Lincoln .....	.....	.....	274.38	.....	2.80	277.18
Maple .....	Silver to Harvard.....	.....	191.14	.....	.....	316.51
Massabesic .....	Brook, southerly.....	125.37	45.00	.....	.....	103.85
Mast .....	Spruce, northerly.....	58.85	198.26	.....	10.00	468.26
Reed east back.....	East of Brock, westerly.....	290.00	.....	.....	.....	166.51
Rockland avenue.....	Kelley, northerly.....	61.07	94.60	.....	10.84	166.51
Schiller .....	South of College road.....	22.20	15.63	.....	5.00	42.83
Soneca lane .....	East of Hale, westerly.....	128.96	1,424.66	.....	66.39	1,620.01
Valley .....	West of Union.....	.....	22.68	.....	.....	22.68
Wayland .....	Massabesic, westerly.....	318.00	439.10	.....	.....	757.10
Wayland avenue.....	Mannoth road, easterly.....	.....	43.82	.....	.....	43.82
Wilson .....	Howe to Cilley road.....	611.22	335.49	.....	5.00	951.71
		\$6,320.13	\$10,106.55	\$7.80	\$519.89	\$16,954.37

REPAIRS OF SEWERS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Brick .....	James F. Cavanaugh.....	\$334.24	\$5,000.00	Common council...	Repairs of sewers.
Castings .....	W. F. Head & Son.....	251.88	1,369.91	Common council...	Overdraft.
Cement .....	Concord Found. & Mach. Co.	\$586.12			
Claim .....	Henry W. Parker.....	1,370.89			
Clum .....	Jacob Alter.....	323.00			
Curbing (catch basin)...	Palmer & Garmon.....	3.68			
Express .....	American Express Co.....	180.53			
Freight .....	Boston & Maine R. R.....	3.30			
Insurance (liability)....	Putnam & Laflamme.....	29.37			
Kerosene .....	Standard Oil Co.....	382.17			
Labor .....	Charles B. Kearns.....	7.65			
	Thomas J. O'Connor.....	2.25			
Lumber .....	West Side Lumber Co.....	7.50			
New equipment.....	Edson Mfg. Co.....	3.29			
	Heady Sewer Machine	\$38.70			
	Cons. Co.....	285.00			
	J. B. Varick Co.....	450.00			
Pay-roll .....	Division No. 2.....	773.70			
	Division No. 7.....	\$3,276.82			
	Division No. 10.....	12.51			
		2,272.82			
Repairs to equipment....	H. L. Bond Co.....	\$11.50			
	S. F. Bowser & Co., Inc....	15.00			
	Brodie Elec. and Auto Co....	7.95			
	Dyar Supply Co.....	19.00			
	Edson Mfg. Co.....	9.90			
	Manchester Machine Wks....	1.11			
Supplies .....	Arthur S. Brown.....	64.46			
	George W. Dodge Shoe Co.	\$2.20			
	Pike & Heald Co.....	9.00			
	John H. Stevens.....	7.36			
	J. B. Varick Co.....	30.19			
		23.35			
		72.10			
		\$9,369.91			\$9,369.91

## REPAIRS OF SEWERS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Brick .....	\$586.12	.062553
Castings .....	1,370.89	.146308
Cement .....	323.00	.034473
Claim .....	3.68	.000393
Curbing (catch basin).....	180.53	.019267
Express .....	3.30	.000352
Freight .....	29.37	.003134
Insurance (Liability) .....	382.17	.040786
Kerosene .....	7.65	.000816
Labor .....	7.50	.000801
Lumber .....	3.29	.000352
New Equipment .....	773.70	.082573
Pay-roll .....	5,562.15	.593618
Repairs to equipment .....	64.46	.006879
Supplies .....	72.10	.007695
	<hr/>	<hr/>
Appropriation .....	\$9,369.91	.....
Overdraft .....	.....	\$8,000.00
	<hr/>	<hr/>
	\$9,369.91	1,369.91
	<hr/>	<hr/>
		\$9,369.91



# **STREET CLEANING DEPARTMENT**

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**MACHINE SWEEPING, SCAVENGER SERVICE, CLEANING  
STREETS, STREET SWEEPING.**

CLEANING STREETS,  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Castings .....	Concord Foundry and Ma- chine Co. ....		\$16,000.00	Common council..	Cleaning streets.
New equipment.....	H. Thompson .....	\$13.61			
Pay-roll .....	Division No. 2.....	62.00			
	Division No. 7.....	\$10,903.09			
	Division No. 10.....	241.44			
		2,661.39			
Supplies .....	J. B. Varick Co.....	14,805.92			
		13.89			
		<u>\$14,895.42</u>			
Balance .....	Common council .....	1,104.58			
		<u>\$16,000.00</u>	<u>\$16,000.00</u>		



## CLEANING STREETS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Castings .....	\$13.61	.000914
New equipment .....	62.00	.004162
Pay-rolls .....	14,805.92	.993992
Supplies .....	13.89	.000932
	<u>\$14,895.42</u>	
Appropriation .....		\$16,000.00
Balance .....	1,104.58	
	<u>\$16,000.00</u>	<u>\$16,000.00</u>

**STREET SWEEPING.  
FINANCIAL STATEMENT.**

For	To	Cr.	Dr.	By	For
Claim .....	Smith, Ramsey Auto Co.....				
Freight .....	Boston & Maine R. R.....	\$2.30	\$11,500.00	Common council..	Street sweeping.
New equipment.....	N. E. Road Machinery Co.....	8.64			
	H. Thompson.....	\$433.00			
		105.50			
Pay-roll .....	Division No. 2.....	538.50			
	Division No. 10.....	\$10,098.55			
		1.98			
Balance .....	Common council .....				
		<u>10,100.53</u>			
		<u>850.03</u>			
		<u>\$11,500.00</u>	<u>\$11,500.00</u>		

## STREET SWEEPING.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Claim .....	\$2.30	.000216
Freight .....	8.64	.000811
New equipment .....	533.50	.060564
Pay-roll .....	10,100.53	.948409
	<u>\$10,649.97</u>	<u>.....</u>
Appropriation .....	.....	\$11,500.00
Balance .....	850.03	.....
	<u>\$11,500.00</u>	<u>\$11,500.00</u>

MACHINE SWEEPING.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Freight .....	Boston & Maine R. R.....	\$5.29	\$4,000.00	Common council...	Machine sweeping.
New equipment.....	N. E. Road Machinery Co... Division No. 2.....	273.00			
Pay-roll .....	Division No. 10.....	11.11			
Repairs to equipment....	John Eisemann Co.....	\$32.00			
	H. Thompson .....	113.75			
	N. E. Road Machinery Co...	113.54			
		259.29			
		<u>\$2,730.13</u>			
		1,269.87			
Balance .....	Common council.....	\$4,000.00	<u>\$4,000.00</u>		

MACHINE SWEEPING.

PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Freight .....	\$5.29	.001937
New equipment .....	275.00	.100727
Pay-roll .....	2,190.55	.802363
Repairs to equipment.....	259.29	.094973
	<hr/>	<hr/>
Appropriation .....	\$2,730.13	.....
Balance .....	1,269.87	\$4,000.00
	<hr/>	<hr/>
	\$4,000.00	\$4,000.00

## APPROPRIATION FOR STREET SWEEPING.

## ITEMIZED OPERATIONS.

(Hand-sweeping with pick-up carts.)

ROUTE No. 1.			
	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm :			
Orange s. s. to Prospect n. s....	2,176	....	2,513
Prospect n. s. to Langdon n. s.	961	....	2,172
	<hr/>	<hr/>	<hr/>
	3,137	....	4,685
Total square yards, 7,822.			

ROUTE No. 2.			
	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm :			
Orange s. s. to Pearl s. s.....	1,096	....	1,367
Pearl s. s. to Bridge n. s.....	954	....	1,131
Bridge n. s. to Bridge s. s.....	600	....	....
Bridge :			
Elm e. s. to Church w. s.....	....	533	....
	<hr/>	<hr/>	<hr/>
	2,650	533	2,498
Total square yards, 5,681.			

ROUTE No. 3.			
	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm :			
Bridge s. s. to Lowell s. s.....	3,311	....	....
Lowell s. s. to Concord s. s....	2,448	....	42
	<hr/>	<hr/>	<hr/>
	5,759	....	42
Total square yards, 5,801.			

ROUTE No 4.			
	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm :			
Concord s. s. to Amherst s. s..	2,622	....	....
Amherst s. s. to Stark n. s....	472	....	....
Concord :			
Elm e. s. to Vine e. s.....	67	....	716
Vine :			
Concord s. s. to Amherst s. s..	....	....	1,615

Amherst:

Elm e. s. to Vine e. s.....	....	....	782
Nutfield lane:			
Amherst s. s. to Hanover n. s..	....	....	425
	<hr/>	<hr/>	<hr/>
	3,161	....	3,538
Total square yards, 6,699.			

ROUTE No. 5.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Elm:				
Stark n. s. to Han- over s. s.....	1,999	....	53	....
Hanover s. s. to Mar- ket s. s.....	435	....	....	....
Market:				
Elm w. s. to Frank- lin w. s.....	....	....	....	1,020
Hanover:				
Elm s. s. to Chestnut w. s.....	367	....	1,564	....
	<hr/>	<hr/>	<hr/>	<hr/>
	2,801	....	1,617	1,020
Total square yards, 5,438.				

ROUTE No. 6.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Elm:				
Market s. s. to Man- chester s. s.....	1,658	....	....	....
Manchester:				
Elm e. s. to Chest- nut w. s.....	858	....	1,073	....
Elm:				
Manchester s. s. to Merrimack s. s...	2,342	....	106	....
	<hr/>	<hr/>	<hr/>	<hr/>
	4,858	....	1,179	....
Total square yards, 6,037.				

ROUTE No. 7.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Elm:				
Merrimack n. s. to 25' n. Central n. s.	3,222	....	....	....

## Central:

Elm e. s. to Chestnut w. s. ....	864	....	1,052	....
West Merrimack:				
Elm w. s. to Frank- lin w. s. ....	66	....	1,052	....
	<hr/>	<hr/>	<hr/>	<hr/>
	4,152	....	2,104	....
Total square yards, 6,256.				

## ROUTE No. 8.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Elm:				
25' n. of Central n. s. to 85' s. Lake ave.	3,538	....	....	....
Lake avenue:				
Elm e. s. to Chestnut w. s. ....	851	....	1,096	....
Depot:				
Elm w. s. to Hamp- shire lane e. s. ....	....	370	....	....
	<hr/>	<hr/>	<hr/>	<hr/>
	4,389	370	1,096	....
Total square yards, 5,855.				

## ROUTE No. 9.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Elm:				
Auburn s. s. to Cedar s. s. ....	2,146	....	....	....
Cedar s. s. to Spruce s. s. ....	2,146	....	....	....
Spruce s. s. to 85' s. Lake avenue. ....	1,469	....	....	....
	<hr/>	<hr/>	<hr/>	<hr/>
	5,761	....	....	....
Total square yards, 5,761.				

## ROUTE No. 10.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints. (new)	Granite paving blocks, sand joints. (old)	Wood paving blocks.
Elm:				
Auburn s. s. to Valley s. s. (east side and tracks) .....	6,527	....	2,546	59



## West Auburn:

Elm w. s. to B. & M. sidetrack in Frank- lin St.....	....	875	....	....
	<hr/>	<hr/>	<hr/>	<hr/>
	6,527	875	2,546	59
Total square yards, 10,007.				

## ROUTE No. 11.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Merrimack:				
Elm e. s. to Chestnut w. s.....	....	....	2,153	....
Chestnut:				
Merrimack s. s. to Manchester s. s...	....	....	1,084	....
Manchester s. s. to Hanover s. s.....	42	....	956	....
Hanover s. s. to Am- herst s. s.....	....	....	951	....
Amherst s. s. to Con- cord s. s.....	....	....	978	....
Concord s. s. to Low- ell s. s.....	....	167	915	....
	<hr/>	<hr/>	<hr/>	<hr/>
	42	167	7,037	....
Total square yards, 7,246.				

## ROUTE No. 12.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Manhattan lane:				
Central s. s. to Cen- tral S. B. n. s.....	....	....	159	....
Central S. B. n. s. to Lake avenue n. s..	....	188	....	....
Lake avenue s. s. to Spruce s. s.....	....	347	....	....
Spruce s. s. to Spruce S. B. s. s.....	....	186	....	....
Hampshire lane:				
Cedar n. s. to Gran- ite s. s.....	....	411	....	....
Granite s. s. to De- pot s. s.....	....	298	....	....
Depot s. s. to West Central s. s.....	....	375	....	....

W. Central s. s. to Pleasant s. s.....	....	298	....	....
Pleasant n. s. to W. Merrimack s. s....	....	298	....	....
		<hr/>	<hr/>	<hr/>
	....	2,401	159	....
Total square yards, 2,560.				

## ROUTE No. 13.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Hampshire lane:				
W. Merrimack n. s. to Market s. s....	....	596	149	....
Market n. s. to Stark s. s. ....	....	....	331	....
Stark n. s. to Me- chanic s. s. ....	....	298	....	....
Mechanic s. s. to Wa- ter s. s. ....	....	224	....	....
Nutfield lane:				
Concord n. s. to Low- ell s. s. ....	....	425	....	....
Church:				
Lowell n. s. to Bridge s. s. ....	....	720	....	....
Washington:				
Elm s. s. to Church w. s. ....	....	520	....	....
North Church:				
Bridge n. s. to Pearl S. B. n. s. ....	....	218	....	....
		<hr/>	<hr/>	<hr/>
	....	3,001	480	....
Total square yards, 3,481.				

## ROUTE No. 14.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Monadnock lane:				
Nutfield lane e. s. to Pine w. s. ....	....	1,182	....	....
Nutfield lane:				
Monadnock lane s. s. to Manchester s. s.	....	187	....	....
Manchester n. s. to Hanover s. s. ....	....	347	....	....

## Londonderry lane:

Nutfield lane e. s. to Chestnut w. s.....	....	700	....	....
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## Derryfield lane:

Nutfield lane e. s. to Chestnut w. s.....	....	200	....	....
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## Nutfield lane:

Amherst n. s. to Concord w. s.....	....	467	....	....
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....	3,083	....	....
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Total square yards, 3,083.

## ROUTE No. 15.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
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## Lake avenue:

Chestnut w. s. to Pine w. s.....	505	....	768	....
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## Pine:

Spruce s. s. to Lake avenue s. s.....	396	....	537	....
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Lake avenue s. s. to Central s. s.....	374	....	657	....
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## Union:

Lake avenue s. s. to Central s. s.....	....	....	998	....
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Central s. s. to Lau- rel s. s.....	....	....	871	....
--	------	------	-----	------

1,275	....	3,831	....
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Total square yards, 5,106.

## ROUTE No. 16.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
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## Union:

Laurel s. s. to Merri- mack s. s.....	120	....	884	....
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Hanover s. s. to Am- herst s. s.....	....	213	1,123	....
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Amherst s. s. to Con- cord s. s.....	....	226	1,186	....
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Concord s. s. to Low- ell s. s.....	....	212	1,135	....
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## Amherst:

Union e. s. to Beech w. s. ....	....	303	1,042	....
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120	954	5,370	....
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Total square yards, 6,444.

## ROUTE No. 17.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Granite:				
Granite bridge.....	2,098	....	....	....
H. & D. s. s. to B. & M. track.....	1,042	....	....	....
B. & M. track to M. mill gate.....	1,822	....	....	....
M. mill gate to e. end bridge.....	....	1,458	....	....
	<hr/>	<hr/>	<hr/>	<hr/>
	4,962	1,458	....	....
Total square yards, 6,420.				

## ROUTE No. 18.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Granite:				
Turner w. s. to S. Main e. s.....	1585	....	2,226	....
Bridge west end to Turner w. s.....	....	667	....	....
Main:				
Granite n. s. to Douglas N. B. n. s.	....	1,854	....	....
	<hr/>	<hr/>	<hr/>	<hr/>
	1,585	2,521	2,226	....
Total square yards, 6,332.				

## ROUTE No. 19.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
South Main:				
Granite n. s. to School n. s.....	390	....	610	....
School n. s. to Ferry n. s. ....	366	....	589	....
Ferry n. s. to Walker n. s. ....	351	....	584	....
Walker n. s. to M. & N. W. R. R.....	312	1,227	488	....
M. & N. W. R. R. to s. s. bridge, s. s. bridge to Log s. s. (Hassam pave- ment) .....	....	....	....	....
	1,070	....	....	....

Mast:

S. Main w. s. to 150' west (Hassam pavement) .....	566	....	....	....
	<hr/>	<hr/>	<hr/>	<hr/>
	3,055	1,227	2,271	....
Total square yards, 6,055.				

ROUTE No. 20.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Tar macadam.
Main:				
Putnam n. s. to Amory s. s.....	981	....	2,729	....
Marion:				
Main e. s. to Mc- Gregor w. s.....	212	....	1,045	....
Notre Dame avenue:				
Wayne n. c. to Amory s. c.....	333	....	1,400	....
Putnam n. c. to Wayne n. c.....	334	....	....	1,580
Kelley:				
85' w. Notre Dame avenue to e. of Rimmon .....	....	1,130	1,415	....
	<hr/>	<hr/>	<hr/>	<hr/>
	1,860	1,130	6,589	1,580
Total square yards, 11,159.				

ROUTE No. 21.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
West Bridge:				
Canal to McGregor bridge .....	....	....	1,389	....
McGregor bridge....	....	....	....	2,781
Main:				
Putnam s. s. to 127' s. of Sullivan.....	....	1,074	771	....
	<hr/>	<hr/>	<hr/>	<hr/>
	....	1,074	2,160	2,781
Total square yards, 6,015.				

ROUTE No. 22.				
	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Hanover:				
Chestnut e. s. to Pine w. s.....	207	....	827	....
Union w. s. to Beech e. s. ....	....	377	1,597	....
Pine:				
Concord n. c. to Lowell s. c...	....	....	....	804
	<hr/>	<hr/>	<hr/>	<hr/>
	207	377	2,424	804
Total square yards, 3,812.				

ROUTE No. 23.				
	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.	Wood paving blocks.
Merrimack:				
Beech e. s. to Maple w. s. ....	....	406	2,033	....
Maple:				
Lake avenue s. s. to Central w. s.....	....	228	869	....
Central s. s. to Lau- rel s. s.....	....	120	811	....
Laurel s. s. to Mer- rimack s. s.....	....	120	1,044	....
	<hr/>	<hr/>	<hr/>	<hr/>
	....	874	4,757	....
Total square yards, 5,631.				
Total miles paved streets, 6.85.				

Granite block pavement (cement joints).....	Square yards.	55,499
Granite block pavement (sand joints).....		23,139
Granite block pavement (sand joints) old.....		9,604
Tar concrete.....		56,609
Hassam pavement.....		1,636
Wood block pavement.....		4,664
Tar macadam.....		1,580
		<hr/>
		152,731
Total area paved streets.....		152,731
Area covered by 23 routes.....		140,760

## SCAVENGER SERVICE.

## COLLECTION.

The city is divided into routes including territory as listed, and are covered and collected on days as indicated in the next following table.

ROUTE.	LOCATION (INCLUDING TERRITORY BOUNDED BY)
No. 1.	Harrison, Elm, West Salmon, River road, Rowell, Union, Webster, Union east back.
No. 2.	Orange, Elm, Harrison, Union east back, Webster, Walnut east back.
No. 3.	Orange, Walnut east back, Webster, Beech east back, Sagamore, Linden.
No. 4.	Bridge, Beech, Orange and Belmont.
No. 5.	Concord, Nashua, Bridge and Highland.
No. 6.	Nashua, Ash and Bridge.
No. 7.	Concord, Union, Bridge and Ash.
No. 8.	Concord, Chestnut, Orange, Beech, Bridge and Union.
No. 9.	Concord, Elm, Orange and Chestnut.
No. 10.	Beech, Concord, Beacon, Hanover, Hall and Manchester.
No. 11.	Manchester, Union, Concord and Beech.
No. 12.	Manchester, Elm, Concord and Chestnut (now included in Route No. 23).
No. 13.	Hall, Hanover, Beacon, Merrimack, Cass and Lake avenue.
No. 14.	Beech, Manchester, Hall, Lake avenue, Wilson and Lake avenue south back.
No. 15.	Manchester, Beech, Laurel, Chestnut, Merrimack and Elm.
No. 16.	Lake avenue, Elm, Central, Chestnut, Laurel and Beech.
No. 17.	Lake avenue south back, Beech, Wilson, Spruce south back.
No. 18.	Lake avenue, Beech, Auburn and Elm.
No. 19.	Pine, Auburn, Beech, Calef road, Baker, Brown avenue, Elm, Auburn, Willow, Pine and Hayward.
No. 20 & 21.	Elm to corporation district, from Auburn to Langdon.
No. 22.	Chestnut, Concord, Union and Manchester.
No. 23.	Elm from Merrimack common to Orange, including Route No. 12 and part of Route No. 9.
No. 31.	Piscataquog river, Merrimack river, Schiller, Second, Woodbury and South Main.
No. 32.	South Main to south of Harvell, Donald and Milford.
No. 33.	Milford, Sylvester, Avon, Charleston avenue, Mast to Brock, Mast road and South Main.
No. 34.	Turner, 'Squog river, School and South Main.
No. 35.	Turner, School, both sides of Main to 'Squog river, 'Squog river to Conant and Granite.
No. 36.	'Squog river, Granite and South Main.

- No. 37. 'Squog river, Granite and South Main.  
 No. 38. Railroad, Conant, Notre Dame avenue, Adams, Gates Blucher and the whole of Whittmore Flats.  
 No. 39. Conant, Notre Dame avenue, Sullivan, Cartier, Kelley, Coolidge avenue, Amory and Main.  
 No. 40. Main, Amory and McGregor.  
 No. 41. McGregor, Amory and Main, north of Amory.  
 No. 42. Cartier, Amory and Columbus avenue.  
 No. 43. Cartier, Kelley, Montgomery and Amory.  
 No. 44. Coolidge avenue, Mason, Montgomery and Kelley.  
 No. 45. Montgomery, westerly to Kimball, and the residential section south of Amory and north of Kelley.  
 No. 46. Includes the residential section of Amoskeag.  
 No. 47. Valley, Wilson, Cilley road, Pine and Willow.  
 No. 48. Wilson, Taylor, Valley and Cilley road.  
 No. 49. Wilson, Spruce, Massabesic, Belmont, Summer, Dearborn, Taylor and Valley.  
 No. 50. Wilson, Lake avenue, Belmont, Massabesic and Spruce.  
 No. 51. Belmont, Summer, Dearborn, Taylor, Massabesic, Hall road and Lake avenue.  
 No. 52. Taylor, Massabesic, Mammoth road, Young, Somerville, Jewett and Cilley road.  
 No. 53. Hall road, Lake avenue, Mammoth road, Portsmouth railroad, Candia road and Massabesic.

## COLLECTION.

(Days and Routes Collected.)

Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
1	2	3	1	2	3
4	6 & 8	9	5	6 & 8	9
10	11	6 & 8	10	11	6 & 8
13	14	17	17	13	19
23	23	23	23	23	23
20 & 21	20 & 21	20 & 21	20 & 21	20 & 21	20 & 21
18	16	18	16	18	16
1	15	3	15	2	15
40 & 39	40 & 24	40, 44 & 46	40 & 45	40 & 41	40 & 43
34 & 38	35 & 36	32 & 33	37 & 38	31 & 35	34 & 35
52	47 & 50	51	48 & 50	53	49 & 50

Five-yard Watson wagons, one single horse wagon and three (3) Peerless four-ton trucks are used in collecting.

The Watson wagons (5-yard) have decreased the cost of collection and hauling in the ratio of five to two per cubic yard.

Following is a schedule, setting forth the routes, cost of labor, cost of teams, cost of trucks, total cost, number of loads and cubic yards collected during 1913.



SUMMARY OF SCAVENGER WORK FOR FIFTY-TWO WEEKS END-  
ING DECEMBER 13, 1913.

Route.	Labor.	Teams.	Trucks.	Total Cost.	Loads.	Cubic Yards.
1 .....	\$306.72	\$2.66	\$500.08	\$1,309.46	497	3,958.00
2 .....	619.84	5.90	378.70	1,004.44	382	3,033.35
3 .....	473.94	1.47	294.00	769.41	292	2,330.00
4 .....	314.36	.....	196.56	510.92	186	1,488.00
5 .....	272.92	2.66	166.60	442.18	158	1,252.00
6 and 8.....	461.90	7.52	278.04	747.46	266	2,092.00
9 .....	763.88	78.36	360.64	1,202.88	461	3,323.60
10 .....	468.93	1.18	291.20	761.31	302	2,410.80
13 .....	532.30	129.98	139.72	802.00	329	2,039.00
14 .....	452.66	130.67	89.04	672.37	280	1,677.80
15 .....	583.67	125.92	178.08	887.67	376	2,442.60
16 .....	1,092.05	385.55	110.88	1,588.48	719	3,940.42
17 .....	485.40	107.14	143.92	736.46	295	1,899.00
18 .....	1,142.42	359.42	182.00	1,683.84	727	4,135.52
19 .....	403.21	91.93	115.36	610.50	247	1,604.00
20 and 21.....	1,913.15	775.02	48.16	2,736.33	1,311	6,737.60
22 .....	505.29	72.33	208.60	786.22	320	2,261.00
23 .....	1,947.36	819.49	3.92	2,770.77	1,297	6,733.01
35 .....	1,354.18	463.45	.....	1,817.63	2,283	4,639.94
40 .....	1,782.55	752.75	.....	2,535.30	1,437	7,268.45
47 .....	327.60	138.31	.....	465.91	203½	1,016.88
48 .....	322.00	135.94	.....	457.94	201	1,005.00
49 .....	324.80	137.13	.....	461.93	201	1,002.52
51 .....	322.00	135.93	.....	457.93	216½	1,080.64
52 .....	322.00	135.93	.....	457.93	246	1,226.90
53 .....	321.30	135.66	.....	456.96	199½	997.50
Dumps .....	\$13,316.43 2,412.96	\$5,132.30 .....	\$3,685.50 .....	\$27,134.23 2,412.96	13,432½ .....	71,585.53 .....
	\$20,729.39	\$5,132.30	\$3,685.50	\$29,547.19	13,432½	71,585.53

## DISPOSAL.

Available dumps: Somerville street, Putnam street, and several smaller dumps; any further dumps necessarily increase the haul.

The one-can non-separated collection system and final destruction by fire at high temperature is again recommended.

FOLLOWING IS A SCHEDULE GIVING THE LOCATION OF THE DUMPS, THE TOTAL NUMBER OF LOADS HAULED FROM EACH ROUTE TO EACH DUMP FOR 25 WEEKS ENDING DECEMBER 13, 1913.

Routes.	Wentworth.	Putnam.	Spears.	Monroe.	McQueston.	Somerville.	Hanover.	Beech.	Mast.	Log.	Bismarck.	So. Main.	Maxwell.	Botwell.	'Squog.	'Sheag.	City Stables.
1.....	79	99	8	131	185	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2.....	69	60	2	90	161	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3.....	37	52	.....	76	127	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4.....	101	7	.....	24	54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5.....	60	19	.....	30	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6 and 8.....	108	15	.....	19	124	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9.....	175	95	1	34	155	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10.....	138	6	.....	28	130	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11.....	99	4	.....	.....	106	108	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.....	148	10	.....	.....	65	57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13.....	139	34	.....	5	138	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14.....	414	150	.....	.....	109	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15.....	108	5	.....	.....	129	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16.....	411	108	.....	.....	156	52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.....	150	6	.....	.....	86	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18.....	517	743	.....	.....	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
19.....	161	8	.....	15	136	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20 and 21.....	534	658	.....	3	100	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.....	291	145	.....	.....	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
23.....	17	1,339	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
26.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
28.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
29.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
32.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
33.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
34.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
35.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
36.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
37.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
38.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
39.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
40.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
41.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
42.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
43.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
44.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
45.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
46.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
47.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
48.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
49.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
51.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
52.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
53.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	3,816	3,563	6	455	2,114	1,588½	12	3	170	1,570	33	25	18	40	6	12	1

## SUMMARY.

Wentworth .....	3,816
Putnam .....	3,563
Spear .....	6
Monroe .....	455
McQueston .....	2,114
Somerville .....	1,588½
Hanover .....	12
Beech .....	3
Mast .....	170
Log .....	1,570
Bismarck .....	33
South Main .....	25
Maxwell .....	18
Bodwell .....	40
'Squog .....	6
'Skeag .....	12
City stables .....	1
	<hr/>
	13,432½

## SUMMARY OF SCAVENGER SERVICE FOR THE YEAR 1908.

Month.	Weeks.	Labor.	Teams.	Total cost.	Loads.	Cubic yards.
January .....	..	.....	.....	.....	.....	.....
February .....	..	.....	.....	.....	.....	.....
March .....	3	\$933.41	\$339.39	\$1,272.80	1,128	3,259.73
April .....	5	1,817.30	632.24	2,449.54	2,326	5,090.73
May .....	4	1,364.62	459.43	1,824.05	1,847	4,155.32
June .....	5	1,575.11	483.14	2,058.25	1,901	4,722.12
July .....	4	1,238.92	376.24	1,615.16	1,405	3,593.85
August .....	4	1,291.25	388.03	1,679.28	1,376	3,433.58
September .....	5	1,553.17	470.85	2,024.02	1,720	4,167.18
October .....	4	1,278.23	384.09	1,662.32	1,467	3,593.46
November .....	4	1,289.46	385.93	1,675.39	1,493	3,784.84
December .....	5	1,636.80	483.71	2,120.51	1,935	4,487.29
	43	\$13,978.27	\$4,403.05	\$18,381.32	16,598	40,288.10

## SUMMARY OF SCAVENGER SERVICE FOR THE YEAR 1909.

Month.	Weeks.	Labor.	Teams.	Total cost.	Loads.	Cubic yards.
January .....	4	\$1,274.71	\$353.58	1,628.29	1,424	4,144.12
February .....	5	1,693.72	472.61	2,166.33	1,854	6,588.73
March .....	4	1,276.72	353.05	1,629.77	1,544	3,862.27
April .....	4	1,358.01	374.55	1,732.56	1,801	4,270.96
May .....	4	1,312.42	378.37	1,690.79	1,759	4,338.20
June .....	5	1,561.75	479.25	2,041.00	1,534	4,303.20
July .....	4	970.70	303.74	1,274.44	854	2,651.55
August .....	4	1,327.56	409.90	1,737.46	1,060½	3,589.86
September .....	4	1,475.02	437.78	1,912.80	1,213	3,938.31
October .....	4	1,187.80	354.59	1,542.39	965	2,968.74
November .....	5	1,583.80	465.66	2,049.46	1,426	4,479.02
December .....	5	1,563.61	462.33	2,025.94	1,314	4,410.19
	52	\$16,585.82	\$4,845.41	\$21,431.23	16,748½	49,545.15

## SUMMARY OF SCAVENGER SERVICE FOR THE YEAR 1910,

Month.	Weeks.	Labor.	Teams.	Total cost.	Loads.	Cubic yards.
January .....	3	\$1,010.25	\$311.69	\$1,321.94	782	3,483.77
February .....	5	1,745.15	539.00	2,284.15	1,328	5,620.65
March .....	4	1,406.80	423.61	1,830.41	1,139	4,125.60
April .....	4	1,574.85	483.96	2,058.81	1,419	4,882.29
May .....	4	1,267.58	459.94	1,727.52	1,233	4,192.19
June .....	5	1,601.95	499.92	2,101.87	1,309	4,415.85
July .....	4	1,270.25	390.58	1,660.83	1,053	3,534.96
August .....	5	1,628.85	508.96	2,137.81	1,278	4,276.81
September .....	4	1,282.00	392.13	1,674.13	1,035	3,411.88
October .....	4	1,306.60	393.49	1,700.09	1,012	3,466.67
November .....	5	1,605.40	477.77	2,083.17	1,346	4,737.06
December .....	4	1,413.80	469.45	1,883.25	1,106	4,773.95
	51	\$17,113.48	\$5,350.50	\$22,463.98	14,040	50,921.68

## SUMMARY OF SCAVENGER SERVICE FOR THE YEAR 1911.

Month.	Weeks.	Labor.	Teams.	Total cost.	Loads.	Cubic yards.
January .....	4	\$1,340.19	\$423.47	\$1,763.66	1,037	4,896.74
February .....	5	1,805.80	584.31	2,390.11	1,297	6,423.55
March .....	4	1,494.76	455.92	1,950.68	1,076	5,083.14
April .....	4	1,505.96	469.00	1,974.96	1,121	4,987.97
May .....	5	1,957.83	567.85	2,525.68	1,734	6,641.80
June .....	4	1,338.39	382.74	1,721.13	1,158	4,281.20
July .....	4	1,355.27	385.66	1,740.93	1,086	4,017.73
August .....	5	2,009.58	709.02	2,718.60	1,284	4,598.88
September .....	4	1,462.09	523.96	1,986.05	956	3,493.18
October .....	4	1,494.06	554.92	2,048.98	1,010	3,859.99
November .....	5	1,945.02	724.41	2,669.43	1,368	5,225.39
December .....	4	1,563.04	591.17	2,154.21	1,114	4,455.83
	52	\$19,271.99	\$6,372.43	\$25,644.42	14,241	57,925.40

## SUMMARY OF SCAVENGER SERVICE FOR THE YEAR 1912.

Month.	Weeks.	Labor.	Teams.	Trucks.	Total cost.	Loads.	Cubic yards.
January ..	4	\$2,007.97	\$633.52	\$103.04	\$2,744.53	1,340	6,056.49
February ..	4	1,674.80	607.50	.....	2,282.30	970	5,077.35
March ....	4	1,674.72	599.91	.....	2,274.63	1,048	4,983.72
April .....	5	2,345.32	820.05	22.96	3,188.33	1,585	6,749.49
May .....	4	1,851.40	558.65	120.96	2,531.01	1,201	5,299.51
June .....	4	1,631.05	465.77	156.80	2,253.62	1,019	4,616.00
July .....	5	1,736.03	429.82	295.68	2,461.53	1,097½	5,536.00
August ...	4	1,393.49	355.75	241.92	1,991.16	826	4,350.25
September ..	4	1,354.90	347.37	233.38	1,935.65	872½	4,497.50
October ..	5	1,788.02	468.54	299.04	2,555.60	1,138	5,892.75
November ..	4	1,522.34	407.28	228.20	2,157.82	903	4,803.50
December ..	4	1,524.46	405.09	226.24	2,155.79	984	5,094.50
	51	\$20,504.50	\$6,099.25	\$1,928.22	\$28,531.97	12,994	62,957.06

## SUMMARY OF SCAVENGER SERVICE FOR THE YEAR 1913.

Month.	Weeks.	Labor.	Teams.	Trucks.	Total cost.	Loads.	Cubic yards.
January ..	5	\$2,021.20	\$553.09	\$290.64	\$2,864.93	1,294	6,779.04
February ..	4	1,658.36	450.66	241.92	2,350.94	1,077	5,566.61
March .....	4	1,751.85	496.72	234.92	2,483.49	1,065	5,916.00
April .....	5	2,341.68	659.43	296.38	3,297.49	1,419	7,776.25
May .....	4	1,789.25	486.30	239.12	2,514.67	1,185	5,961.62
June .....	4	1,549.51	404.70	229.88	2,184.09	1,023	5,149.25
July .....	5	1,875.56	477.38	294.00	2,646.94	1,216½	6,150.23
August ....	4	1,394.18	265.05	358.96	2,018.19	891	4,899.05
September ..	5	1,732.74	342.52	448.88	2,522.14	1,158	6,456.81
October ...	4	1,414.82	283.34	356.16	2,054.32	960	5,333.46
November ..	4	1,580.76	348.68	362.88	2,292.32	1,051	5,785.69
December ..	4	1,619.48	364.43	333.76	2,317.67	1,093	5,821.42
	52	\$20,729.39	\$5,132.30	\$3,685.50	\$29,547.19	13,432½	71,585.53

SUMMARY OF SCAVENGER SERVICE FOR SIX YEARS, 1908 TO  
1913 INCLUSIVE.

Year.	Weeks.	Labor.	Teams.	Trucks.	Total cost.	Loads.	Cubic yards.
1908.....	43	\$13,978.27	\$4,403.05	.....	\$18,381.32	16,598	40,288.10
1909.....	52	16,585.82	4,845.41	.....	21,431.23	16,748½	49,545.15
1910.....	51	17,113.48	5,350.50	.....	22,463.98	14,040	50,921.68
1911.....	52	19,271.99	6,372.43	.....	25,644.42	14,241	57,925.40
1912.....	51	20,504.50	6,099.25	\$1,928.22	28,531.97	12,994	62,957.06
1913.....	52	20,729.39	5,132.30	3,685.50	29,547.19	13,432½	71,585.53
	301	\$108,183.45	\$32,202.94	\$5,613.72	\$146,000.11	88,054	333,222.92

SCAVENGER SERVICE.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Auto registration .....	Edward N. Pearson.....	\$40.00	\$3.68	G. E. Chase.....	Sewer pipe.
Claim .....	Theodore St. Onge.....	23.76	5,920.95	State of N. H.....	State aid.
Freight .....	Boston & Maine R. R.....	4.65	30,000.00	Common council..	Scavenger service.
Gasoline .....	Complanter Refining Co....	\$78.00			
	Gulf Refining Co.....	2,297.73			
Insurance .....	William G. Berry.....	\$290.00			
	John A. Sheehan.....	145.00			
Kerosene .....	Standard Oil Co.....	435.00			
Lubricants .....	Vacuum Oil Co.....	5.40			
New equipment .....	Concord Found. & Mach. Co.	202.94			
	J. B. McCrillis & Son.....	\$10.69			
	William C. Spear.....	225.00			
		4,282.38			
Pay-roll .....	Division No. 2.....	\$23,049.95	4,518.07		
	Division No. 7.....	1.98			
	Division No. 10.....	18.36			
Repairs to equipment..	Amoskeag Mfg. Co.....	\$114.66			
	Bisson & Jodoin.....	1.88			
	Concord Found. & Mach. Co.	1.91			
	The S. P. Dodge Co.....	9.20			
	Goodyear Tire & Rub. Co.	212.03			
	Manchester Auto Garage...	1,076.24			
	Manchester Machine Wks...	11.51			
	Manchester Welding Co....	5.70			
	J. B. McCrillis & Son.....	7.00			
	Peerless Motor Car Co....	362.93			
	Sanborn Carriage Co.....	137.25			
Salary of inspector.....	Levi J. Proctor.....	1,940.11			
Scavenger contract	Mrs. W. H. Bickford.....	999.96			
Supplies .....	Granite State Rubber Co.	2,162.64			
	John B. Vanick Co.....	\$1.82			
		144.25			
		146.07			
		\$35,924.63	\$35,924.3		

## SCAVENGER SERVICE.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Auto registration .....	\$40.00	.001113
Claim .....	23.76	.000661
Freight .....	4.66	.000129
Gasoline .....	2,375.73	.066132
Insurance .....	435.00	.012108
Kerosene .....	5.40	.000150
Lubricants .....	202.94	.005649
New equipments .....	4,518.07	.125766
Pay-roll .....	23,070.29	.642187
Repairs to equipment.....	1,940.11	.054005
Salary of inspector.....	999.96	.027835
Scavenger contract .....	2,162.64	.060199
Supplies .....	146.07	.004066
	<u>\$35,924.63</u>	
Appropriation .....		\$30,000.00
Credits .....		5,924.63
	<u>\$35,924.63</u>	<u>\$35,924.63</u>



# **PARK AND COMMONS DEPARTMENT**

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**BROWN TAIL AND GYPSY MOTH, CARE OF COMMONS, CUTTING AND TRIMMING TREES, EAST SIDE PARK, DERRY-FIELD PARK, STARK PARK, ELM LEAF BEETLE, LAFAYETTE PARK, MISCELLANEOUS PLAYGROUNDS, PROUT PARK, ROCK RIMMON PARK.**

BROWN-TAIL AND GYPSY MOTH.  
FINANCIAL STATEMENT.

For	To.	Cr.	Dr.	By	For
Abatements .....	Sally W. Andrews.....	\$6.80	\$1,815.32	Tax collector.....	Brown-tail moth tax collected for private work.
	C. S. Boynton.....	.45		Common council.....	Brown-tail and gypsy moth.
	James A. Folsom.....	1.35	4,650.00	Common council.....	Overdraft.
	Charles W. Hanson.....	.32			
	McGregor Hall heirs.....	20.00			
	Mrs. Annie Howe.....	.68	3,829.29		
	Cora M. Stearns.....	3.60			
	Sarah Wheelpley.....	.90			
		\$34.10			
Brown-tail moth work contract district work .....	Daniel F. Cronin.....	4,095.60			
Brown-tail moth work contract private work .....	Daniel F. Cronin.....	3,708.13			
Freight .....	Easton & Maine R. R.....	.36			
Gypsy moth work contract .....	Daniel F. Cronin.....	746.20			
Gypsy moth work inspector .....	William H. McQuade.....	47.62			
Labor placing and removing open globes .....	M. T. L. & P. Co.....	224.13			
Pay-roll .....	Commons .....	204.38			
Postage .....	E. H. Chadbourne, P. M.....	77.00			
Printing .....	The J. B. Clarke Co.....	43.50			
Private work inspectors .....	J. J. Bresnahan.....	\$173.75			
	John Connor .....	163.75			
	P. J. Cronin .....	173.99			
	William F. Drea.....	148.25			
	Rolin B. Johnston.....	29.25			
	J. J. McAllister Jr.....	157.49			
	Frank A. Murphy.....	146.24			
	John M. Steward.....	111.94			
Supplies .....	J. B. Varick Co.....	1,104.66			
		13.93			
		\$10,294.61	\$10,294.61		

## BROWN-TAIL AND GYPSY MOTH.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Abatements .....	\$34.10	.003312
Brown-tail Moth Work contract—district work .....	4,095.60	.397839
Brown-tail Moth Work contract—private work .....	3,703.13	.359720
Freight .....	.36	.000035
Gypsy Moth Work contract.....	746.20	.072484
Gypsy Moth Work, inspector.....	47.62	.004625
Labor, placing and removing open globes...	224.13	.021771
Pay-roll .....	204.38	.019853
Postage .....	77.00	.007479
Printing .....	43.50	.004225
Private work, inspector.....	1,104.66	.107304
Supplies .....	13.93	.001353
	<hr/>	
Appropriation .....	\$10,294.61	.....
Credit .....	.....	\$4,650.00
Overdraft .....	.....	1,815.32
	.....	3,829.29
	<hr/>	
	\$10,294.61	\$10,294.61

APPROPRIATION FOR CARE OF COMMONS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Castings .....	Concord Found. & Mach. Co.	\$33.42	\$3,000.00	Common council...	Care of commons.
Fertilizer .....	Henry B. Fairbanks.....	116.00	1,814.77	Common council...	Overdraft.
Flowers and shrubs.....	F. J. Bixby.....	\$367.34			
	A. P. Horne & Co.....	19.80			
Freight .....	Boston & Maine R. R.....	387.14			
Grain .....	Arthur S. Brown.....	17.25			
Granite curbing.....	Pease & Co.....	7.10			
Lights .....	M. T., L. & P. Co.....	151.45			
Lumber .....	West Side Lumber Co.....	77.51			
Pay-roll .....	Commons .....	38.57			
	Division No. 2.....	\$1,800.76			
	Division No. 10.....	290.55			
		5.05			
Repairs to equipment....	Amoskeag Mfg. Co.....	2,156.38			
Repairs to fountains....	Charles F. McDonald.....	.80			
Repairs to harnesses....	Alva Silva .....	10.31			
Salary of superintendent	John Seastrom .....	.75			
Sidewalk repairs.....	Robie Con. Concrete Co.....	900.00			
Supplies .....	John B. Varick Co.....	229.88			
Veterinary services and		81.71			
medicine .....	Frank J. Clarke.....	6.50			
Water .....	Water commissioners.....	600.00			
		\$4,814.77	\$4,814.77		

## CARE OF COMMONS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Castings .....	\$33.42	.006941
Fertilizer .....	116.00	.024092
Flowers and shrubs.....	387.14	.080406
Freight .....	17.25	.003582
Grain .....	7.10	.001475
Granite curbing .....	151.45	.031455
Lights .....	77.51	.016098
Lumber .....	38.57	.008011
Pay-roll .....	2,156.33	.447868
Repairs to equipment.....	.80	.000166
Repairs to fountain.....	10.31	.002142
Repairs to harnesses.....	.75	.000156
Salary of superintendent.....	900.00	.186925
Sidewalk repairs .....	229.88	.047745
Supplies .....	81.71	.016971
Veterinary services and medicine.....	6.50	.001350
Water .....	600.00	.124617
	<u>\$4,814.77</u>	.....
Appropriation .....	.....	\$3,000.00
Overdraft .....	.....	1,814.77
	<u>\$4,814.77</u>	<u>\$4,814.77</u>

CUTTING AND TRIMMING TREES.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Filing saws.....	Harry A. Piper.....	\$0.80	\$1,500.00	Common council.....	Cutting and trim-
Liability insurance..	Putnam & Laflamme.....	185.80		Common council.....	ming trees.
Pay-roll .....	Division No. 2.....	\$1,985.45	784.65	Common council.....	Overdraft.
	Division No. 10.....	7.22			
	Commons .....	97.68			
Supplies .....	J. B. Varick Co.....	2,090.35			
		7.70			
		<u>\$2,284.65</u>	<u>\$2,284.65</u>		

## CUTTING AND TRIMMING TREES.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Filing saws .....	\$0.80	.000350
Liability insurance .....	185.80	.081325
Pay-roll .....	2,090.35	.914955
Supplies .....	7.70	.003370
	<u>\$2,284.65</u>	.....
Appropriation .....	.....	\$1,500.00
Overdraft .....	.....	784.65
	<u>\$2,284.65</u>	<u>\$2,284.65</u>

EAST SIDE PARK.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Pay-roll .....	Commons .....	\$20.46	\$50.00	Common council.....	East Side Park.
Balance .....	Common council .....	<u>29.54</u>	<u>50.00</u>		
		<u>\$50.00</u>			



DERRYFIELD PARK.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Fertilizer .....	Henry B. Fairbanks.....	\$116.00	\$500.00	Common council....	Derryfield Park.
Flowers .....	F. J. Bixby.....	44.88	420.79	Common council....	Overdraft.
Insurance .....	William G. Berry.....	\$5.00			
	John A. Sheehan.....	6.00			
	Commons .....	11.00			
Pay-roll .....	John B. Varick Co.....	711.18			
Supplies .....	Water commissioners.....	7.73			
Water .....		30.00			
		<u>\$920.79</u>	<u>\$920.79</u>		

## ANNUAL OFFICIAL REPORT.

## DERRYFIELD PARK.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Fertilizer .....	\$116.00	.125978
Flowers .....	44.88	.048741
Insurance .....	11.00	.011946
Pay-roll .....	711.18	.772358
Supplies .....	7.73	.008395
Water .....	30.00	.032582
	<hr/>	<hr/>
	\$920.79	.....
Appropriation .....	.....	\$500.00
Overdraft .....	.....	420.79
	<hr/>	<hr/>
	\$920.79	\$920.79

STARK PARK.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Fence .....	The J. L. Mott Iron Works..	.....	\$1,477.23	Common council...	Stark Park.
Fertilizer .....	Henry B. Fairbanks.....	.....	151.51	Common council...	Overdraft.
Flowers .....	F. J. Bixby.....	.....			
Freight .....	Boston & Maine R. R.....	.....			
Pay-ROLL .....	Division No. 2.....	\$71.57			
	Commons .....	695.08			
		766.65			
Supplies .....	Jere Hodge .....	\$9.08			
	Pike & Heald Co.....	1.16			
	John B. Varick Co.....	10.82			
Water .....	Water commissioners.....	.....			
		21.06			
		12.00			
		<u>\$1,628.80</u>	<u>\$1,628.80</u>		

## STARK PARK.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Fence .....	\$600.00	.368369
Fertilizer .....	116.00	.071219
Flowers .....	90.69	.055679
Freight .....	22.40	.013752
Pay-roll .....	766.65	.470684
Supplies .....	21.06	.012929
Water .....	12.00	.007368
	<hr/>	<hr/>
Appropriation .....	\$1,628.80	.....
Overdraft .....	.....	\$1,477.23
	<hr/>	<hr/>
	\$1,628.80	\$1,628.80

ELM LEAF BEETLE.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Arsenate of lead..... Elm leaf beetle con- tract ..... Labor inspector.....	John B. Varick Co..... Daniel F. Cronin..... William McQuade..... Joseph Morisseau .....	..... \$336.00 3,223.33 \$67.50 65.25 ----- 132.75 ----- \$3,692.08	\$2,500.00 1,192.08 ----- \$3,692.08	Common council..... Common council.....	Elm leaf beetle. Overdraft.

## ANNUAL OFFICIAL REPORT.

## ELM LEAF BEETLE.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Arsenate of lead.....	\$336.00	.091095
Elm-leaf Beetle contract.....	3,223.33	.873039
Labor, inspector .....	132.75	.035956
	<hr/>	<hr/>
Appropriation .....	\$3,692.08	.....
Overdraft .....	.....	\$2,500.00
	.....	1,192.08
	<hr/>	<hr/>
	\$3,692.08	\$3,692.08

LAFAYETTE PARK.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Pay-roll .....	Division No. 10.....	\$11 67	\$500.00	Common council....	Lafayette Park.
Balance .....	Commons .....	6.38			
	Common council.....	\$18.05			
		.....			
		<u>\$500.00</u>	<u>\$500.00</u>		

MISCELLANEOUS PLAYGROUNDS.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Freight .....	Boston & Maine R. R. ....	\$0.25	\$2,400.00	Common council...	Miscellaneous play-
Labor and material.....	Charles F. McDonald.....	108.01			grounds.
Pay-roll .....	Division No. 10.....	\$17.63			
	Commons .....	1,150.74			
Printing .....	The Ruenley Press.....	1,168.37			
Supplies .....	Joseph Eluto .....	13.50			
	A. R. Lopez & P. Co.....	\$7.15			
	Manchester Supply Co.....	17.52			
	F. E. Nelson Co.....	28.81			
	Manchester Street Ry.....	3.60			
	Ranno-Spiers Co.....	10.00			
	H. J. Rock.....	4.50			
	John B. Varick Co.....	2.00			
	West Side Lumber Co.....	166.97			
		3.52			
Water .....	Water commissioners.....	244.07			
		31.31			
Balance .....	Common council.....	\$1,565.51			
		834.49			
		<u>\$2,400.00</u>			
			<u>\$2,400.00</u>		



## MISCELLANEOUS PLAYGROUNDS.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Freight .....	\$0.25	.000159
Labor and material.....	108.01	.003664
Pay-roll .....	1,168.37	.746319
Printing .....	13.50	.008824
Supplies .....	244.07	.155905
Water .....	31.31	.019999
	<hr/>	<hr/>
Appropriation .....	\$1,565.51	.....
Balance .....	834.49	\$2,400.00
	<hr/>	<hr/>
	\$2,400.00	\$2,400.00

PROUT PARK.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Insurance .....	John A. Sheehan.....	.....	\$1,000.00	Common council...	Prout Park.
Payroll .....	Commons .....	.....			
Sidewalks (new) .....	Robie Consolidated Concrete Co .....	\$15.75			
Supplies .....	Manchester Supply Co.....	242.32			
	Pike & Heald Co.....	362.66			
		\$18.48			
		26.10			
		44.58			
		<u>\$665.31</u>			
	Common council.....	334.69			
Balance .....		\$1,000.00			
		<u>\$1,000.00</u>			

PROUT PARK.  
PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Insurance .....	\$15.75	.023673
Pay-roll .....	242.32	.364222
Sidewalks (new) .....	362.66	.545099
Supplies .....	44.58	.067006
	\$665.21	.....
Balance .....	334.69	.....
Appropriation .....	.....	\$1,000.00
	\$1,000.00	\$1,000.00

ROCK RIMMON PARK.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Landscape architect (ser- vices) .....	Sheffield A. Arnold.....	\$939.06	\$2,000.00	Common council...	Rock Rimmon Park.
Balance .....	Common council.....	1,060.94	<u>\$2,000.00</u>		
		<u>\$2,000.00</u>			

HEAD & DOWST PURCHASE.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Land purchase.....	Sally Head Gault.....	\$7,569 80	\$7,596.12	Common council...	Head & Dowst Purchase.
Balance .....	Common council.....	26.32			
		<u>\$7,596.12</u>	<u>\$7,596.12</u>		

KELLEY-STREET BRIDGE.  
FINANCIAL STATEMENT.

For	To	Cr.	Dr.	By	For
Advertising proposal....	Engineering record.....	\$16.00	\$99,000.00	Common council..	Kelley-Street Bridge.
Contract .....	United Construction Co.....	11,027.00			
Inspector .....	Herbert F. Earle.....	228.44			
Telegram .....	Western Union Telegraph Co.....	4.24			
		<u>\$11,275.68</u>			
Balance .....	Common council.....	87,724.32			
		<u>\$99,000.00</u>	<u>\$99,000.00</u>		

## KELLEY-STREET BRIDGE.

## PERCENTAGE REPORT.

	Classified Expenditures.	Per cent of Total Expenditures.
Advertising proposal .....	\$16.00	.001419
Contract .....	11,027.00	.977946
Inspector .....	228.44	.020259
Telegram .....	4.24	.000376
	<hr/>	<hr/>
Appropriation .....	\$11,275.68	.....
Balance .....	87,724.32	\$99,000.00
	<hr/>	<hr/>
	\$99,000.00	\$99,000.00





**REPORT**

**OF THE**

**SUPERINTENDENT OF PUBLIC BUILDINGS.**



## SUPERINTENDENT OF PUBLIC BUILDINGS.

*To the Board of Mayor and Aldermen of the City of Manchester:*

GENTLEMEN—I herewith present my annual report of the doings of the Department of Buildings for the year 1913, as prescribed by section 10, chapter 14, of the City Ordinances.

Outside of the general repairs always necessary, this department was unable to make many permanent improvements.

At the Straw school a complete system of direct and indirect heating has been installed at a cost of \$4,889.00, which is proving very satisfactory.

At the Parker school the woodwork has been varnished throughout.

The following is a detailed report of the permits issued with the estimated cost and total number of inspections of the same:

TABLE SHOWING THE NUMBER OF PERMITS ISSUED EACH MONTH FOR NEW BUILDINGS WITH THE ESTIMATED COST.

	Jan.	Feb.	Mar.	Apr.	May	June	July
Dwellings .....	12	4	19	37	42	24	35
Business .....	4	5	15	23	22	14	11
Public .....	..	..	..	..	..	..	..
Total .....	16	9	34	60	64	38	46
		Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dwellings .....		14	24	27	14	12	264
Buildings .....		18	13	17	20	6	168
Public .....		..	1	..	..	..	1
Total .....		32	38	44	34	18	433

ESTIMATED COST.

	Dwellings.	Business.	Public.
January .....	\$32,500	\$6,400	.....
February .....	18,750	1,020	.....
March .....	55,080	20,400	.....
April .....	127,000	20,017	.....
May .....	144,175	9,232	.....
June .....	88,135	39,459	.....
July .....	120,400	11,440	.....

August .....	\$48,000	\$11,000	.....
September .....	104,540	8,990	\$21,695
October .....	100,150	9,165	.....
November .....	74,700	34,035	.....
December .....	63,600	1,102	.....
Total .....	\$977,030	\$172,260	\$21,695

TABLE SHOWING THE NUMBER OF PERMITS ISSUED FOR ALTERATIONS,  
ENLARGEMENTS AND REPAIRS OF OLD BUILDINGS.

	Jan.	Feb.	Mar.	Apr.	May	June	July
Dwellings .....	14	17	38	54	50	36	27
Business .....	12	10	19	25	26	25	17
Public .....	..	..	..	..	..	..	..
Total .....	26	27	57	79	76	61	44
	Aug.	Sept.	Oct.	Nov.	Dec.	Total	
Dwellings .....	24	31	38	20	11	361	
Business .....	14	30	27	20	15	240	
Public .....	1	..	..	..	..	1	
Total .....	39	61	66	40	26	602	

## ESTIMATED COST.

	Dwellings.	Business.	Public.
January .....	\$7,010	\$2,495	.....
February .....	3,540	3,080	.....
March .....	9,515	6,485	.....
April .....	20,485	184,850	.....
May .....	28,335	25,175	.....
June .....	16,357	12,604	.....
July .....	9,290	20,905	.....
August .....	10,699	3,835	\$6,975
September .....	13,875	11,915	.....
October .....	34,932	4,775	.....
November .....	11,299	30,200	.....
December .....	12,618	16,445	.....
Total .....	\$177,955	\$322,764	\$6,975

Number of building permits issued during the year.....	1,035
Number of permits issued during the year for electric signs	10
Number of permits issued during the year for fire-escapes..	15
Number of building permits refused during the year.....	3
Number of inspections made during the year.....	9,126

H. S. FOSTER,

*Superintendent Public Buildings.*

**REPORT OF THE CITY PHYSICIAN**



## REPORT OF THE CITY PHYSICIAN

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

GENTLEMEN—I herewith submit my annual report as city physician of Manchester for the year 1913.

The number of patients treated, not including those at the police station, Isolation Hospital, or for the Board of Health, or for the Street and Park Commission, was 38. This necessitated 475 house calls and 142 office calls. The number of patients per ward was as follows:

Ward 1, patients treated.....	2
Ward 2, patients treated.....	2
Ward 3, patients treated.....	8
Ward 4, patients treated.....	8
Ward 5, patients treated.....	4
Ward 6, patients treated.....	0
Ward 7, patients treated.....	0
Ward 8, patients treated.....	5
Ward 9, patients treated.....	4
Ward 10, patients treated.....	5
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Total .....	38

Visits to the police station, 171.

Visits to the Isolation Hospital, 47.

Accidents for Street and Park Commission, 5.

Visits for the Board of Health, 6.

Respectfully submitted,

WILLIAM R. LIGHTBODY,  
*City Physician.*





**REPORT OF THE OVERSEER OF THE POOR.**



## REPORT OF THE OVERSEER OF THE POOR.

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

I herewith present to you my third annual report as overseer of the poor for the city of Manchester for the year ending November 30, 1913.

The number of orders given during the year is 2,130, divided as follows:

	No. Orders.	Amount.
For groceries .....	1,362	\$12,229.00
fuel .....	204	505.49
rent .....	50	283.50
board and care.....	150	1,137.33
institutions .....	210	2,706.04
shoes .....	78	315.24
clothing .....	3	8.12
funeral expenses.....	7	160.00
transportation .....	7	28.29
medicine .....	45	102.28
medical services.....	9	43.00
	2,130	\$17,518.29
Medical supplies for city physician.....		12.83
		\$17,531.12
Amount of appropriation.....		\$18,000.00
Expenses for the year 1913.....		17,531.12
		\$468.88
AMOUNTS SPENT EACH MONTH.		
December .....		\$1,612.09
January .....		1,558.22
February .....		1,543.08
March .....		1,496.28
April .....		1,449.86
May .....		1,359.88
June .....		1,239.97
July .....		1,246.17
August .....		1,245.01
September .....		1,247.25
October .....		1,374.94
November .....		2,158.37
		\$17,531.12

## GROCERS.

Bellefeuille, Paul.....	\$180.00
Bureau, Joseph A.....	705.58
Bourgeois & Co.....	90.00
Bournival, Arsene.....	56.00
Barbeau Bros.....	194.89
Boulangier, Nazarie L.....	89.50
Bouchard, Jean B.....	90.00
Balch, Fred H.....	6.00
Beaudet & Dupont.....	40.00
Clark, Chas. H., & Sons.....	125.85
Dumas, Joseph.....	320.80
Dusseault, L. F., & Co.....	407.00
Dubois, O. F.....	379.00
Dubois, Eugene.....	438.00
Daigle, Napoleon.....	175.38
Daigle & Daigle.....	102.57
Demers, Joseph.....	110.00
Ducharme Bros.....	123.50
Duda, Joseph.....	15.00
Dionne & Brule.....	202.00
Gorman Bros.....	287.30
Griffin, James J.....	76.00
Gagne, Antoine J.....	447.06
Gelinas, Ernest.....	358.00
Gaudette Bros.....	320.98
Gaillardet & Rivard.....	124.00
Griffin & Duguay.....	564.94
Gaudreau Bros.....	52.00
Gallant, Thomas.....	24.00
Grenier, Philip.....	59.99
Hermsdorf, A. P.....	131.00
Haggerty, Joseph B.....	108.00
Healy, John.....	168.00
Hamel, Omer H.....	131.98
Johnson, Martin.....	70.00
Kane, John A.....	55.92
Lamoureux Bros.....	76.00
Labrecque, T. J.....	127.00
Lafond, Norbert.....	144.00
LaSalle, A. S.....	3.00
McNulty, M. J.....	40.00
McLaughlin & Day.....	96.00
McDuffee, Oscar.....	220.00
Martel & Valiere.....	64.00
Melancon, L. Thomas.....	101.47

Menard, Antoine M.....	\$306.00
Normand, Chas.....	106.00
Newcomb, C. E.....	282.00
Noury & Co.....	10.00
Pinard, Edmond.....	422.00
Pariseau, Hertel.....	156.00
Pearson, August.....	24.00
Peloquin, Mathias.....	269.00
Parnell Bros.....	56.00
Prince, Albert H.....	90.00
Prince, A. D.....	95.00
Quirin, E, & Co.....	171.00
Robitaille, A. L.....	290.00
Robinson, Guy T.....	108.00
Rouleau, S. A.....	180.00
Summer Street Market.....	20.00
Steele, Frank V.....	122.90
Steele, C. D.....	102.03
Sowa, Mary.....	25.00
Trahan, Joseph.....	10.71
Twentieth Century Market.....	222.95
Voisard, Euclide C.....	934.00
Vezina, H. T.....	228.96
Verrette, Moise.....	223.74
Wiggin & Young.....	72.00

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\$12,229.00

## AMOUNTS SPENT EACH MONTH.

December .....	\$1,085.82
January .....	1,113.54
February .....	1,085.62
March .....	1,107.67
April .....	1,004.45
May .....	916.68
June .....	892.41
July .....	913.95
August .....	931.04
September .....	846.89
October .....	953.39
November .....	1,377.54

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\$12,229.00

## WOOD AND COAL.

Boisclair, Charles.....	\$37.25
Blanchard, Jean B.....	64.75
Campbell, G. A., Coal Co.....	11.50
Dunbar, W. E., & Sons.....	8.50
DeCourcy, J. H., Coal Co.....	4.00
Duplessis, F. V.....	2.00
Dery, Michel.....	27.50
Forest, William.....	68.00
Flint, C. A. & A. W.....	24.38
Fellows & Son.....	20.50
Haskell, E. C.....	5.00
Lessard & Richard.....	63.45
Masse, Joseph.....	24.25
Manchester Coal & Ice Co.....	29.25
Moore & Preston Coal Co.....	9.00
Northern New England Coal Co.....	16.00
Poore, D. M., Coal Co.....	10.40
Raiche & Prince.....	29.00
Russell, J. P.....	5.00
Union Coal Co.....	18.00
Weber, Henry.....	27.76
	<hr/>
	\$505.49

## AMOUNTS SPENT EACH MONTH.

December .....	\$73.75
January .....	61.88
February .....	80.60
March .....	48.50
April .....	46.38
May .....	24.00
June .....	6.00
July .....	1.00
August .....	3.00
September .....	38.75
October .....	35.00
November .....	86.63

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 \$505.49

## BOARD AND CARE.

Burke, G., Mrs.....	\$144.00
Bourque, Philip, Mrs.....	30.00
Berger, Henry.....	156.00
Beauchemin, Fred, Mrs.....	104.00
Chaput, Napoleon.....	130.00
Coté, Ibrahim.....	50.00

REPORT OF THE OVERSEER OF THE POOR. 729

Draper, Martha, Mrs.....	\$96.00
Donnelly, John.....	69.33
Lewis, Melvin.....	130.00
Veine, Arsene.....	72.00
Welcome, Gedeon S.....	78.00
Wilson, John, Mrs.....	78.00
	<hr/>
	\$1,137.33

AMOUNTS SPENT EACH MONTH.

December .....	\$74.00
January .....	94.00
February .....	94.00
March .....	76.00
April .....	117.33
May .....	92.00
June .....	72.00
July .....	88.00
August .....	80.00
September .....	80.00
October .....	90.00
November. ....	180.00
	<hr/>
	\$1,137.33

INSTITUTIONS.

Hillsborough County Farm.....	\$556.71
Hillsborough County Hospital.....	55.43
Manchester Children's Home.....	80.00
Notre Dame Orphanage.....	642.00
Notre Dame Hospital.....	137.60
Old Ladies' Home.....	247.84
St. Peter Orphanage.....	696.00
St. Patrick Orphanage.....	160.00
St. Joseph Boys' Home.....	120.00
Elliot Hospital.....	5.00
Pembroke Sanitorium.....	5.46
	<hr/>
	\$2,706.04

AMOUNTS SPENT EACH MONTH.

December .....	\$262.87
January .....	222.30
February .....	203.00
March .....	217.16
April .....	220.25
May .....	216.87
June .....	211.58

July .....	\$165.16
August .....	189.27
September .....	201.08
October .....	207.87
November .....	388.63

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\$2,706.04

## SHOES AND RUBBERS.

Beaumier, A. T.....	\$90.30
Brigham, E. C.....	6.00
Chase, L. H., Shoe Co.....	61.00
Chagnon, E. C., & Co.....	36.40
Dodge, Geo. W., Shoe Co.....	6.25
Gregoire, S. W.....	58.80
Gelinas, Theophile.....	2.00
Gosselin, Gedeon.....	7.00
Leblanc, A. Coté.....	3.50
Marcotte, Wm., & Co.....	4.24
New Idea Shoe Co.....	10.75
Pariseau, C., & Co.....	3.00
Raymond, J. A.....	15.50
Shea, D. F.....	2.00
Schlough, Gustaf.....	5.75
The Woodman Shoe Co.....	2.75

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\$315.24

## AMOUNTS SPENT EACH MONTH.

December .....	\$64.15
January .....	28.50
February .....	13.70
March .....	11.95
April .....	9.65
May .....	28.49
June .....	14.60
July .....	31.00
August .....	11.25
September .....	36.25
October .....	26.70
November .....	39.00

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\$315.24

## CLOTHING.

McDonough, M. A.....	\$5.00
Manchester Dry Goods Co.....	3.12

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\$8.12



AMOUNTS SPENT EACH MONTH.

February .....	\$1.00
March .....	1.00
November .....	6.12

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\$8.12

DRUGGISTS.

Dunnington, Herbert.....	\$3.05
Dufort, Chas. E.....	.60
Doucet, J., & Co.....	9.21
Giguere, Oscar.....	.90
Leckie, Chas. R.....	1.10
Kerwin & Sheehan.....	1.35
Monette, Ernest R.....	8.20
Marshall, J. Albert.....	31.45
Precourt, Archie F.....	15.24
Precourt, Albert J.....	10.90
Provencher, Z., & Co.....	16.13
Walsh & Cummings.....	4.15

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\$102.28

AMOUNTS SPENT EACH MONTH.

January .....	\$1.50
February .....	12.66
March .....	4.40
April .....	10.30
May .....	17.84
June .....	.90
July .....	8.73
August .....	6.95
September .....	3.20
October .....	10.48
November .....	25.32

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\$102.28

MEDICAL SUPPLIES.

Dyer & Chipman.....	\$6.90
Giguere, Oscar.....	1.10
Walsh & Cummings.....	4.83

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\$12.83

AMOUNTS SPENT EACH MONTH.

March .....	\$1.10
June .....	6.90
July .....	4.83

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\$12.83

## MEDICAL SERVICES.

Dr. Clarence O. Coburn.....	\$3.00
Dr. George V. Fiske.....	6.00
Dr. Ezra A. Jones.....	6.00
Dr. J. E. Lemaitre.....	3.00
Dr. Gustave Lafontaine.....	3.00
Dr. J. E. A. Lanouette.....	8.00
Dr. A. F. Wheat.....	5.00
Dr. J. C. O'Connor.....	6.00
Hillsborough County Hospital.....	6.00
	<hr/>
	\$13.00

## AMOUNTS SPENT EACH MONTH.

January .....	\$6.00
February .....	5.00
June .....	6.00
September .....	12.00
November .....	14.00
	<hr/>
	\$43.00

## FUNERAL EXPENSES.

Boufford, Letendre & Co.....	\$25.00
Boisclair, Chas.....	10.00
Dery, Michel.....	75.00
Goodwin, Elmer D.....	25.00
Gadbois, A. L.....	25.00
	<hr/>
	\$160.00

## AMOUNTS SPENT EACH MONTH.

December .....	\$25.00
February .....	25.00
April .....	25.00
May .....	50.00
July .....	10.00
October .....	25.00
	<hr/>
	\$160.00

## TRANSPORTATION.

Boufford, Letendre & Co.....	\$6.00
Freeman, W. J.....	.50
Goodwin, Elmer D.....	6.50
Hillsborough county.....	4.13
Shea, Jeffrey.....	6.08
Reardon, George.....	5.58
	<hr/>
	\$28.29

AMOUNTS SPENT EACH MONTH.

March .....	\$6.00
April .....	3.00
May .....	.50
June .....	6.08
September .....	5.58
October .....	3.00
November .....	4.13

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\$28.29

RENT.

Beaudet, Clement.....	\$8.00
Belisle, Gedeon (agent).....	17.50
Dumas, Joseph.....	104.00
Hebert, Thomas.....	36.00
Keefe, Robert, Mrs.....	26.00
West Side Lumber Co.....	4.00
Kinnaman Companions.....	28.00
Roy, Victor W.....	60.00

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\$283.50

AMOUNTS SPENT EACH MONTH.

December .....	\$26.50
January .....	30.50
February .....	22.50
March .....	22.50
April .....	13.50
May .....	13.50
June .....	23.50
July .....	23.50
August .....	23.50
September .....	23.50
October .....	23.50
November .....	37.00

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\$283.50

INDIGENT SOLDIERS AND THEIR DEPENDENT FAMILIES.

Amount of appropriation.....	\$500.00
For fuel, G. A. Campbell Coal Co... \$2.00	
Moore & Preston..... 4.25	
Northern New England	
Coal Co..... 10.00	
Poore, D. M., Coal Co..... 7.00	
Russell, J. P..... 6.00	

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\$29.25

For groceries, M. Verette.....		\$96.00	
rent, Matthew Malloy.....		130.00	
board and care, M. T. Mitcheson.....		130.00	
shoes, G. W. Dodge Shoe Co.....		6.00	
			391.25
Balance .....			\$108.75
SUPPLIES, STATIONERY, ETC.			
Appropriation .....			\$180.00
1912.			
Dec. 12.	To Leader Publishing Co.....	\$10.00	
13.	L'Avenir National .....	10.00	
	Manchester Union .....	11.73	
31.	New England Tel. Co.....	2.10	
1913.			
Jan. 7.	W. P. Goodman.....	4.75	
17.	Geo. Blanchet (bond).....	7.50	
31.	New England Tel. Co.....	2.00	
Feb. 15.	New England Tel. Co.....	2.00	
Mar. 18.	New England Tel. Co.....	2.00	
	New England Tel. Co. toll....	.10	
31.	E. C. Chadbourne.....	10.00	
April 1.	W. P. Goodman.....	.41	
30.	New England Tel. Co.....	2.00	
May 6.	Manchester T. L. & P. Co....	3.00	
22.	Fontaine & Co.....	2.50	
31.	New England Tel. Co.....	2.00	
June 20.	John B. Varick Co.....	1.00	
30.	New England Tel. Co.....	2.00	
July 8.	J. A. Scully.....	2.50	
	Burroughs Adding Machine Co.	30.00	
10.	Ruemely Press.....	9.50	
8.	W. P. Goodman.....	.75	
11.	New England Tel. Co.....	2.00	
Aug. 31.	New England Tel. Co.....	2.00	
Sept. 31.	New England Tel. Co.....	2.00	
Oct. 3.	W. P. Goodman.....	.50	
7.	E. C. Chadbourne.....	10.00	
10.	W. P. Goodman.....	3.50	
20.	Temple & Farrington Co.....	19.50	
31.	New England Tel. Co.....	2.00	
Nov. 15.	Maxwell Ice Co.....	2.80	
30.	New England Tel. Co.....	2.00	
			164.14
Balance .....			\$15.86

## TRANSPORTATION.

Appropriation .....		\$150.00
Boston & Maine Railroad.....	\$20.00	
Manchester Street Railway.....	102.50	
A. L. Gadbois.....	26.25	
	<hr/>	148.75
		<hr/>
		\$1.25

## RECAPITULATION.

Appropriation .....		\$20,715.00
Paupers' account .....	\$17,311.12	
Soldiers' account .....	31.25	
Supplies' account .....	14.14	
Transportation .....	148.75	
Salaries .....	1,885.00	
CASH BALANCES.		
Paupers' account .....	\$468.88	
Soldiers' account .....	108.75	
Supplies' account .....	15.86	
Transportation .....	1.25	
	<hr/>	594.74
		<hr/>
	\$20,715.00	\$20,715.00

JOSEPH L. BOUDREAU,  
*Overseer of the Poor.*



**RESOLUTIONS, ORDERS, ORDINANCES.**





## RESOLUTIONS, ORDERS, ORDINANCES.

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RESOLUTION RELATING TO THE APPOINTMENT OF A JOINT COMMITTEE TO INVESTIGATE ADVISABILITY OF BUILDING A BRIDGE ACROSS MERRIMACK RIVER.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows :*

That a committee consisting of His Honor and three members of the board of mayor and aldermen be appointed to act in conjunction with the president and six members of the common council, for the purpose of investigating the advisability of constructing a new bridge across the Merrimack river south of Granite bridge, so called, in the city of Manchester, and to that end to confer with the board of public works and the representatives of the W. H. McElwain Company and otherwise obtain such information as will enable the said committee to present a comprehensive report upon the matter to the boards of mayor and aldermen and common council as soon as possible; and be it further

*Resolved*, That this resolution take effect upon its passage and a copy of the same be forwarded to the common council.

Passed January 7, 1913.

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RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE PURCHASE OF AN AUTOMOBILE FOR USE OF THE CHIEF OF THE MANCHESTER FIRE DEPARTMENT.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows :*

That the sum of twenty-four hundred dollars (\$2,400.00) be and is hereby recommended to the board of common council as an appropriation for the year 1913; said sum of twenty-four hundred dollars to be expended for the purpose of purchasing an automobile for the use of the chief of the Manchester fire department; said sum of twenty-four hundred dollars to be known as appropriation for automobile for use of chief of fire department; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed January 21, 1913.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR BUILDING A CULVERT  
OVER CEMETERY BROOK AT WILLOW STREET, SO CALLED, IN THE CITY OF  
MANCHESTER.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

That the sum of sixty-five hundred dollars (\$6,500.00) be and is hereby recommended to the board of common council as an appropriation for the year 1913; said sum of sixty-five hundred dollars to be expended for the purpose of building a culvert over Cemetery brook at Willow street, so called, in the city of Manchester; said sum of sixty-five hundred dollars to be known as appropriation for culvert over Cemetery brook at Willow street; and be it further

*Resolved,* That this resolution shall take effect upon its passage.

Passed January 21, 1913.

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RESOLUTION RELATING TO ESTIMATES OF COSTS OF A BRIDGE ACROSS THE  
PISCATAQUOG RIVER.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

That the city engineer be and is hereby requested to make necessary surveys and estimates of the approximate costs of (1) a steel bridge across the Piscataquog river of sufficient size to accommodate a line of street railway in addition to other traffic; (2) a cement bridge of the same capacity; and (3) a bridge for foot passengers only; said engineer to submit a report to the board of mayor and aldermen at its next meeting; and be it further

*Resolved,* That this resolution shall take effect upon its passage.

Passed February 4, 1913.

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RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE PURCHASE OF  
LAND TO BE USED AS AN EXTENSION TO PINE GROVE CEMETERY.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

That in the opinion of the board it is desirable that an extension to Pine Grove cemetery should be acquired, and it hereby recommends to the board of common council that a temporary loan of an issue of bonds for eight thousand dollars be made to purchase land for said extension; and be it

*Resolved,* That if and when the board of common council shall have made said loan or issue for said purchase, the board of sub-trustees of

Pine Grove cemetery be and is hereby authorized to purchase for and in the name and behalf of the city of Manchester as and for an extension to Pine Grove cemetery seventy-two acres of land bounded and described as follows:

Bounded on the east by Brown avenue, on the south by land now or formerly of C. C. Webster, on the west by land of the Concord and Montreal railroad, and on the north by land of the city of Manchester; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed February 18, 1913.

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RESOLUTION MAKING A TEMPORARY LOAN OF FOUR HUNDRED THOUSAND DOLLARS (\$400,000.00) IN ANTICIPATION OF THE TAXES OF THE PRESENT YEAR.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

That for the purpose of paying such claims against the city of Manchester as may fall due before the 20th day of December, 1913, the city treasurer of said city be and is hereby authorized and empowered to make such temporary loans, from time to time, for the use of the said city, of sums not exceeding the aggregate amount of four hundred thousand dollars (\$400,000.00); said loans being in anticipation of the taxes of the present year and hereby expressly made payable therefrom; said treasurer giving for the said loans the notes of the said city bearing the authenticating certificate of the Old Colony Trust Company of Boston, Mass.; said notes to be signed by the said treasurer and countersigned by the mayor of said Manchester and payable within one year from their respective dates; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed February 18, 1913.

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RESOLUTION RELATING TO INTEREST ON DEPOSITS OF THE CITY OF MANCHESTER.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

That the monies of the city of Manchester be deposited in such bank or banks in said city 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 May, 1913, to the first day of May, 1914; 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 agent, the treasurer of said city, reserving the right to reject any and all bids

and call for such other bids as may be necessary to carry out the intent of this resolution; and be it further

*Resolved*, That 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 monies of said city of Manchester in said bank or banks from the first day of May, 1913, to the first day of May, 1914; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed April 1, 1913.

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RESOLUTION RELATIVE TO THE EXEMPTION FROM TAXATION OF CERTAIN MANUFACTURING ESTABLISHMENTS, AND THE BUSINESS CONNECTED THEREWITH, PROPOSED TO BE ERECTED AND CONDUCTED BY W. H. McELWAIN COMPANY.

*Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:*

WHEREAS, It is provided by section 11, chapter 55 of the Public Statutes of New Hampshire, that "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. Provided, however, that the assessors shall annually appraise such property and the valuation determined upon for the same shall be added to the valuation of all other property in the town to determine the total valuation for the purposes of state and county tax," and

WHEREAS, W. H. McElwain Company, a corporation organized under the laws of the Commonwealth of Massachusetts, proposes to erect upon its premises in the city of Manchester, buildings for the purpose of manufacturing, and to operate manufacturing establishments therein, and for that purpose to bring to Manchester and to use additional machinery, stock in trade, capital and other property, therefore be it

*Resolved*, That any buildings for the purpose of manufacturing that may be erected in the city of Manchester before the first day of April, 1914, by said W. H. McElwain Company, incorporated under the laws of the Commonwealth of Massachusetts, and the manufacturing establishments proposed to be put in operation therein, including the machinery, stock in trade and other property which may be owned or used by the W. H. McElwain Company in its said establishments, and the capital to be used in operating the same, and the business connected therewith, be exempted from taxation for a period of ten years from the first day of April, 1913, provided the said buildings have been completed and the said manufacturing establishments are in operation

therein on the first day of April, 1914, and provided also that W. H. McElwain Company shall pay to the city of Manchester annually, the amount of the state and county taxes due upon all said property during the term of the exemption.

*Further resolved*, That this resolution shall take effect upon its passage.

Passed April 15, 1913.

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RESOLUTION RELATING TO THE ISSUANCE OF \$20,000 OF CITY BONDS TO REFUND THE FIVE PER CENT CEMETERY BONDS MATURING JULY 1, 1913.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That for the purpose of obtaining twenty thousand dollars (\$20,000) with which to pay the twenty thousand dollars (\$20,000) of cemetery bonds now outstanding, bearing five per cent interest, which will become due July 1, 1913, there be issued the bonds of the city of Manchester to the amount of twenty thousand dollars (\$20,000), said bonds to be dated July 1, 1913, and payable \$2,000 thereof on the first of July in each of the years 1914 to 1923 inclusive.

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 four (4) per cent per annum from date, and to have coupons attached bearing the fac-simile signature of the city treasurer for the payment of interest at said rate, semi-annually, on the first days of January and July 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 to the trustees of the cemetery fund at par and accrued interest, and to 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.

Passed May 6, 1913.

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RESOLUTION AUTHORIZING A TEMPORARY LOAN OF THREE HUNDRED DOLLARS (\$300.00) FOR THE NOTRE DAME DE LOURDES GIRLS' ORPHANAGE.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That the mayor be and is hereby authorized to make a temporary loan of three hundred dollars (\$300.00), giving for the same the note,

or notes, of the city of Manchester, signed by the mayor and countersigned by the city treasurer, and payable on or before six months from date of issue; said sum to be expended for the Notre Dame de Lourdes Girls' orphanage; and be it further

*Resolved*, That the city clerk be and is hereby authorized to transfer said sum of three hundred dollars (\$300.00) to the appropriation for patriotic, charitable and philanthropic department; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed May 6, 1913.

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RESOLUTION AUTHORIZING A TEMPORARY LOAN OF FOUR THOUSAND DOLLARS (\$4,000.00) TO BUILD AN ADDITION TO THE ISOLATION HOSPITAL.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That the mayor be and is hereby authorized to make a temporary loan of four thousand dollars (\$4,000.00), giving for the same the note, or notes, of the city of Manchester, signed by the mayor and countersigned by the city treasurer, and payable on or before twelve months from date of issue; said sum to be expended for the purpose of building an addition to the Isolation hospital; and be it further

*Resolved*, That the city clerk be and is hereby authorized to transfer said sum of four thousand dollars (\$4,000.00) to the appropriation for health department; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed May 6, 1913.

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RESOLUTION RELATING TO LIGHTING THE CITY OF MANCHESTER WITH ELECTRICITY.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

WHEREAS, The contract to light certain of the streets, roads, bridges, parks and public places of the city of Manchester with electric arc lights expires on the twenty-third day of May, 1913; therefore be it

*Resolved*, That the mayor and standing committee on lighting streets be and are hereby instructed to investigate the matter of lighting said streets, roads, bridges, parks and public places of said city of Manchester on and after said date and report the result of their investigation to the board of mayor and aldermen; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed May 6, 1913.

RESOLUTION RELATING TO THE SECURING OF LAND TO BE USED AS RECREATION OR PLAYGROUNDS FOR THE CHILDREN OF WEST MANCHESTER.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That a joint special committee consisting of His Honor the mayor and two aldermen to be appointed by the mayor, the president of the common council and two councilmen to be appointed by said president, be appointed for the purpose of ascertaining what parcel or parcels of land may be obtained for use as recreation or playgrounds for the children of West Manchester; said committee to report its findings at the earliest opportunity; and be it further

*Resolved,* That this resolution shall take effect upon its passage.

Passed May 6, 1913.

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RESOLUTION RELATING TO THE REVISION OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

That a committee of three be appointed to act in conjunction with the mayor and city solicitor for the purpose of revising the city ordinances so that the said ordinances shall conform to such state or city legislation as may have been passed since the last revision of said ordinances; and be it further

*Resolved,* That this resolution shall take effect upon its passage.

Passed May 6, 1913.

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RESOLUTION AUTHORIZING AN ISSUE OF ONE HUNDRED THOUSAND DOLLAR (\$100,000.00) MUNICIPAL BONDS TO BUILD A BRIDGE OVER THE PISCATAQUOG RIVER AT KELLEY STREET.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That the sum of one hundred thousand dollars (\$100,000.00) be borrowed for the use of said city, by issuing bonds 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," and known as the "Municipal Bonds Act, 1895," said sum to be appropriated for the purpose of building a new bridge across the Piscataquog river at Kelley street, said bonds to be dated July 1, 1913, and payable to bearer as follows:

Five thousand dollars (\$5,000.00) on each of the following dates: July 1, 1914; July 1, 1915; July 1, 1916; July 1, 1917; July 1, 1918; July 1, 1919; July 1, 1920; July 1, 1921; July 1, 1922; July 1, 1923; July 1, 1924; July 1, 1925; July 1, 1926; July 1, 1927; July 1, 1928; July 1, 1929; July 1, 1930; July 1, 1931; July 1, 1932, and July 1, 1933; said bonds to bear the city seal, to be signed by the mayor and countersigned by the city treasurer, and to have coupons attached bearing the fac-simile signature of the city treasurer for the payment of interest, semi-annually, on the first days of January and July of each year, and the city treasurer is hereby authorized to fix the place of payment of interest and principal of said bonds, and the rate of interest of said bonds, and under the instructions of the mayor, and the standing committee on finance of said board of common council, is authorized to sell said bonds, and to do all things necessary and proper to complete and carry into effect the issue of said bonds; and be it further *Resolved*, That this resolution shall take effect upon its passage.

Passed May 19, 1913.

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RESOLUTION RELATING TO THE EXEMPTION FROM TAXATION OF A PROPOSED  
NEW HOTEL.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

THAT WHEREAS, The New Hampshire legislature has enacted a law providing that "If a hotel, the building for which shall cost not less than two hundred thousand dollars, shall be erected and opened for business in the city of Manchester on or before April first, 1915, such hotel building may, by vote of the city councils, be exempted from all local taxes by said city of Manchester for the term of ten years from said date; *provided, however*, that the assessors of said city shall annually appraise such hotel building and the valuation determined upon for the same shall be added to the valuation of all other property in said city of Manchester to determine the total valuation for the purposes of state and county tax, and such hotel building shall be assessed for said state and county tax; and said assessors shall also annually appraise the land on which said building may be erected, and said land shall be taxed at the same rate as other property in said city; now therefore

*Resolved* by the board of mayor and aldermen in city council assembled: That if a hotel, the building for which shall cost not less than two hundred thousand dollars, shall be erected and opened for business in the city of Manchester on or before April first, 1915, such hotel building be and hereby is exempted from all local taxes by the city of Manchester for the term of ten years from said April first, 1915; *provided* that the assessors of the city shall annually appraise such



hotel building and the valuation determined upon for the same be added to the valuation of all other property in the city of Manchester to determine the total valuation for the purposes of state and county tax, and said hotel building shall be assessed for said state and county taxes; and the said assessors shall also annually appraise the land upon which said building may be erected, and said land shall be taxed at the same rate as other property in the city.

*Resolved further*, That this resolution shall take effect upon its passage.

Passed June 3, 1913.

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RESOLUTION PROTESTING AGAINST THE INDISCRIMINATE CUTTING UP OF UNIMPROVED LAND INTO HOUSE LOTS AND THE LAYING OUT OF STREETS ON SAID LAND REGARDLESS OF THE ESTABLISHED GRADE AND WIDTH OF ACCEPTED STREETS.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

WHEREAS, In many instances, the laying out of land in this city into house lots by individuals and corporations has been performed with gross disregard for the general plan of the city, as so wisely formulated by its founders; and

WHEREAS, In many of these instances the lots have been made unduly small and the streets so irregular, so close together and so narrow as to be entirely out of harmony with the streets of the older portions of the city, and when built to grade will inflict excessive expense upon the city; and

WHEREAS, The practice of such haphazard and ill-advised methods destroys the regularity of layout for which this city is noted, reduces its attractiveness and also imposes upon the taxpayers an unnecessarily heavy burden for building streets and making other public improvements; therefore be it

*Resolved*, That in the opinion of this Board all plans of lots, before being made the basis of sales of real estate, should be submitted to the engineer's department for approval, and, if approved by said department, should be so marked in a plain and distinct manner for the benefit of intending purchasers; and be it further

*Resolved*, That this board regards with disapproval the acceptance of and the improvement of streets in additions to this city, the plans for which are not approved as set forth above; and be it further

*Resolved*, That this resolution take effect upon its passage.

Passed June 17, 1913.

RESOLUTION RECOMMENDING A BOND ISSUE OF ONE HUNDRED THOUSAND DOLLARS FOR THE PURPOSE OF BUILDING NEW STREETS AND SEWERS.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

WHEREAS, The board of public works submitted to this board in January last a report estimating that the sum of two hundred sixty-five thousand and fifty-two dollars would be required to macadamize and build highways already laid out, and the sum of seventy-five thousand one hundred forty-two dollars to build sewers voted in; and

WHEREAS, No appropriation was made this year by the board of common council for the building of new highways and only a small amount appropriated for the building of new sewers; and

WHEREAS, The city of Manchester is greatly in need of better streets and additional sewer accommodations: therefore be it

*Resolved*, That the sum of one hundred thousand dollars be and hereby is recommended to the board of common council as an appropriation to be met by a bond issue for the purpose of building new streets and sewers; said sum of one hundred thousand dollars to be expended as follows: sixty thousand dollars for new streets and forty thousand dollars for new sewers; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed July 1, 1913.

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RESOLUTION RELATING TO SECURING ESTIMATES OF COST OF A TRUNK LINE SEWER IN THE VALLEY OF TANNERY BROOK, SO CALLED, IN THE CITY OF MANCHESTER.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

WHEREAS, A petition signed by one hundred taxpayers and residents of that part of South Manchester lying south of Shasta and Baker streets was presented to the board of mayor and aldermen February 4, 1913, asking that a sewer of sufficient size to accommodate the needs of this growing district be built; and

WHEREAS, No action has been taken upon this petition notwithstanding that the lack of proper sewerage in this section is well known and is retarding the development of this district; therefore be it

*Resolved*, That the city engineer be and is hereby requested to prepare and submit to this board an estimate of the cost of a trunk line sewer to extend from Merrimack river to Calef road in the Tannery brook valley, so called, at the earliest possible moment; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed July 15, 1913.

RESOLUTION MAKING A TEMPORARY LOAN OF ONE HUNDRED THOUSAND DOLLARS (\$100,000.00) IN ANTICIPATION OF THE TAXES OF THE PRESENT YEAR.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

That for the purpose of paying such claims against the city of Manchester as may fall due before the 20th day of December, 1913, the city treasurer of said city be and is hereby authorized and empowered to make such temporary loans, from time to time, for the use of the said city, of sums not exceeding the aggregate amount of one hundred thousand dollars (\$100,000.00); this authorization being in addition to that for four hundred thousand dollars (\$400,000.00) passed February 17, 1913; said loans being in anticipation of the taxes of the present year and hereby expressly made payable therefrom; said treasurer giving for the said loans the notes of the said city bearing the authenticating certificate of the Old Colony Trust Company of Boston, Mass.; said notes to be signed by the said treasurer and countersigned by the mayor of said Manchester and payable within one year from their respective dates; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed July 25, 1913.

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RESOLUTION RELATING TO THE ISSUANCE OF ONE HUNDRED THOUSAND DOLLARS (\$100,000) OF CITY BONDS FOR THE PURPOSE OF BUILDING NEW STREETS AND SEWERS.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That the sum of one hundred thousand dollars (\$100,000) be borrowed for the use of the said city by issuing bonds 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"; said sum of one hundred thousand dollars (\$100,000) to be appropriated as follows: Macadamizing and new highways, \$65,000.00; new sewers, \$35,000. Said bonds to be dated October 1, 1913, and payable to bearer as follows: Five thousand dollars (\$5,000) on each of the following dates: October 1, 1914, October 1, 1915, October 1, 1916, October 1, 1917, October 1, 1918, October 1, 1919, October 1, 1920, October 1, 1921, October 1, 1922, October 1, 1923, October 1, 1924, October 1, 1925, October 1, 1926, October 1, 1927, October 1, 1928, October 1, 1929, October 1, 1930, October 1, 1931, October 1, 1932, and October 1, 1933, said bonds to bear the city seal, to be signed by the mayor and countersigned by the city treasurer, and to have coupons attached bearing the facsimile signature of the city treasurer for the

payment of interest, semi-annually, on the first days of April and October of each year, and the city treasurer is hereby authorized to fix the place of payment of interest and principal of said bonds, and the rate of interest of said bonds, and under the instructions of the mayor and the standing committee on finance of said board of common council is authorized to sell said bonds, and to do all things necessary and proper to complete and carry into effect the issue of said bonds; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed August 15, 1913.

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RESOLUTION RELATIVE TO THE EXEMPTION FROM TAXATION OF A CERTAIN MANUFACTURING ESTABLISHMENT PROPOSED TO BE CONDUCTED BY W. H. McELWAIN COMPANY.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

WHEREAS, It is provided by section 11, chapter 55 of the Public Statutes of New Hampshire that "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. *Provided, however*, that the assessors shall annually appraise such property and the valuation determined upon for the same shall be added to the valuation of all other property on the town to determine the total valuation for the purpose of state and county tax"; and

WHEREAS, W. H. McElwain company, a corporation duly established by law, proposes to put into operation in the city of Manchester in the building formerly occupied by the Gerrish Wool and Leather company, situate on Brown avenue, a manufacturing establishment for the tanning of skins and hides and manufacture of leather and for that purpose proposed to bring to Manchester and use additional machinery, stock in trade, capital and other property, none of which has been exempted from taxation by any town or city in the state of New Hampshire; therefore be it

*Resolved*, That all the machinery, stock in trade and other property, excepting real estate, which may be owned or used by W. H. McElwain Company in any manufacturing establishment which may be put in operation by it in the city of Manchester in the said Gerrish Wool and Leather Company building, so called, for the tanning of skins and hides and manufacture of leather and supplies used in connection with the tanning of skins and hides and the manufacture of leather, and the capital to be used in carrying on the same, and the business connected therewith, be exempted from taxation for a period of ten

years from the first day of September, 1913, provided the said manufacturing establishment is in operation therein on the first day of September, 1914, and provided also that W. H. McElwain Company pay to the city of Manchester, annually, the amount of the state and county taxes due upon all said property during the term of the exemption; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed September 16, 1913.

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RESOLUTION REQUESTING THE BOARD OF FIRE ENGINEERS TO ASCERTAIN THE ADVISABILITY OF ESTABLISHING CERTAIN RULES FOR THE MANCHESTER FIRE DEPARTMENT.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

That the board of fire engineers be requested to ascertain the advisability of making such rules applicable to the Manchester fire department as shall tend to improve the personnel and discipline of the same, including rules and regulations designed to establish a merit system of promotion, practice drills, the rigid examination of candidates for admission to the department, and such other regulations as may seem to the board of fire engineers conducive to the improvement of the department; and be it further

*Resolved*, That the board of engineers be requested to report to this board the results of such inquiry into this matter as it may make; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed September 16, 1913.

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RESOLUTION MAKING A TEMPORARY LOAN OF FIVE THOUSAND DOLLARS FOR ENGINE HOUSE SOUTH OF PISCATAQUOG RIVER.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That the mayor be and is hereby authorized to make a temporary loan of the sum of five thousand dollars, giving for the same the note or notes of the city of Manchester signed by the mayor and countersigned by the city treasurer, and payable on or before twelve months from the date of issue; said sum of five thousand dollars to be expended for the purpose of making the appropriation for engine house south of Piscataquog river adequate to complete the said engine house according to the plans and specifications approved by the committee on lands and buildings of the board of mayor and aldermen; and be it further

*Resolved*, That the city clerk be and is hereby authorized to transfer said sum of five thousand dollars to the appropriation known as appropriation for engine house south of Piscataquog river; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed September 16, 1913.

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RESOLUTION RELATING TO THE ISSUANCE OF ONE HUNDRED THOUSAND (\$100,000) DOLLARS OF WATER BONDS FOR THE PURPOSE OF REFUNDING THE FOUR AND ONE-HALF PER CENT WATER BONDS MATURING NOVEMBER 1, 1913.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That for the purpose of obtaining one hundred thousand (\$100,000) dollars with which to pay the one hundred thousand (\$100,000) dollars of water bonds now outstanding, bearing four and one half per cent interest, which will become due November 1, 1913, there be issued the bonds of the city of Manchester to the amount of one hundred thousand (\$100,000) dollars, said bonds to be dated November 1, 1913, and payable \$20,000 thereof on the first of November in each of the years 1917 to 1921 inclusive.

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 four per cent from date and to have coupons attached bearing the facsimile signature of the city treasurer for the payment of interest at said rate, semi-annually, on the first days of May and November of each year; and the city treasurer is authorized to fix the place of payment of interest and principal of said bonds, and under the instructions of the mayor and the finance committee of the common council 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.

Passed September 29, 1913.

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RESOLUTION MAKING A TEMPORARY LOAN OF TWO THOUSAND, SIX HUNDRED DOLLARS FOR REPAIRS ON PUBLIC BUILDINGS.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That the mayor be and is hereby authorized to make a temporary loan of the sum of two thousand six hundred dollars, giving for the

same the note or notes of the city of Manchester signed by the mayor and countersigned by the city treasurer, and payable on or before twelve months from the date of issue; said sum of two thousand six hundred dollars to be expended for the purpose of making repairs on public buildings; and be it further

*Resolved*, That the city clerk be and is hereby authorized to transfer said sum of two thousand six hundred dollars to the appropriation known as appropriation for repairs on public buildings; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed October 24, 1913.

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RESOLUTION MAKING A TEMPORARY LOAN OF FIVE THOUSAND DOLLARS  
TO BUILD A CULVERT OVER CEMETERY BROOK NEAR VALLEY STREET.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That for the purpose of carrying out the obligation of the city of Manchester to secure the offer of Mrs. Hannah A. Currier, namely, to erect an iron fence to surround the west side of Valley cemetery to correspond with the fence surrounding the three other sides, also to build a sidewalk with a curbing and plant a row of shade trees extending from Auburn to Valley streets, the mayor be and is hereby authorized to make a temporary loan of the sum of five thousand dollars giving for the same the note or notes of the city of Manchester signed by the mayor and countersigned by the city treasurer, and payable on or before twelve months from the date of issue; said sum of five thousand to be expended for the building of a culvert over Cemetery brook near Valley street; and be it further

*Resolved*, That the city clerk be and is hereby authorized to transfer said sum of five thousand dollars to the appropriation known as appropriation for bridges; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed November 7, 1913.

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RESOLUTION MAKING A TRANSFER OF FIVE HUNDRED DOLLARS (\$500.00)  
TO THE APPROPRIATION FOR THE CARE OF PUBLIC COMFORT.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

That the city clerk be and is hereby authorized to transfer the sum of five hundred dollars (\$500.00) from the appropriation for police court to the appropriation for care of public comfort, and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed November 14, 1913.

RESOLUTION MAKING AN INCREASE IN THE SALARY OF THE CLERK OF THE COMMON COUNCIL TO TWO HUNDRED (\$200.00) DOLLARS PER ANNUM.

*Resolved by the Board of Common Council of the City of Manchester, as follows:*

WHEREAS, The duties of the clerk of the common council have been greatly increased within recent years so that they now occupy the greater portion of the year instead of the first few months, as formerly, and next year will be further added to, and

WHEREAS, With this increase in duties there has been no corresponding increase in the salary of the clerk, while other boards have raised the salaries of their clerks in keeping with the duties increasing by reason of the growth of the city, therefore be it

*Resolved*, That the salary of the clerk of the common council be and is hereby increased to the sum of two hundred (\$200.00) dollars per annum, and be it further

*Resolved*, That this resolution shall take effect on January 1, 1914.

Passed November 14, 1913.

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RESOLUTION RELATING TO APPOINTMENT OF SPECIAL COMMITTEE TO CONSIDER SOME METHOD OF RELIEVING THE FLYING SQUADRON FROM FIGHTING BRUSH AND FOREST FIRES.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

WHEREAS, The use of the flying squadron in extinguishing brush and forest fires, outside the compactly built portions of the city, not only at times deprives the owners of city property of its protection but subjects this apparatus to extremely rough usage to which it is ill adapted; therefore be it

*Resolved*, That the board of fire engineers, the board of public works or its representatives and the state fire warden be requested to confer with his honor, the mayor, and the committee on fire department, upon a date to be fixed by his honor the mayor for the purpose of devising some method of fighting brush and forest fires, occurring outside the compact portion of the city, which shall not involve the use of fire department apparatus and men in such a manner as to detract from the efficiency of the department in handling city fires; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed November 18, 1913.



RESOLUTION RELATING TO THE APPOINTMENT OF A SPECIAL COMMITTEE TO CONSIDER THE ADVISABILITY OF WIDENING CERTAIN STREETS IN THE CITY OF MANCHESTER.

*Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows :*

That a special committee consisting of his honor and four aldermen be appointed for the purpose of considering the advisability of widening the following streets in the city of Manchester :

Amherst street from Vine street to Pine street ; Concord street from Vine street to Pine street ; Merrimack street from Elm street to Chestnut street ; and Central street from Elm street to Chestnut street ; so that said streets as widened shall be seventy-five feet in width ; and be it further

*Resolved*, That said committee be empowered to name three citizens as additional members of the committee ; said committee to hold hearings and take whatever steps deemed advisable to secure public sentiment and obtain the fullest information regarding the advisability of widening said streets and report its findings to this board ; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed December 16, 1913.

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AN ORDER TO PRINT THE SIXTY-SEVENTH ANNUAL REPORT OF THE RECEIPTS AND EXPENDITURES OF THE CITY OF MANCHESTER.

*Ordered*, That the committee on finance be and is hereby authorized to procure for the use of the inhabitants of said city the printing of the sixty-seventh annual report of the receipts and expenditures of the city of Manchester, including the reports of the city auditor, the school board, and superintendent of schools, superintendent of water works, water commissioners, engineers of fire department, overseer of the poor, trustees, librarian and treasurer of the city library, committee on cemeteries, city physician, city solicitor, chief engineer, board of public works, superintendent of buildings and such other matter relative to city affairs as said finance committee may direct ; the expense thereof to be charged to the appropriation for printing and stationery.

Passed February 18, 1913.

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AN ORDER TO PURCHASE HAY, STRAW AND GRAIN FOR USE IN THE FIRE DEPARTMENT.

*Ordered*, That the mayor and standing committee on fire department be and are hereby instructed to purchase all hay, straw and grain

used in the fire department of the city of Manchester for the ensuing year, the expense thereof to be charged to the appropriation for fire department.

Passed February 18, 1913.

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AN ORDER TO PURCHASE TEN HORSES FOR USE IN THE FIRE DEPARTMENT.

*Ordered,* That the mayor and standing committee on fire department be and are hereby authorized and empowered to purchase ten horses for use in the fire department of the city of Manchester; the expense thereof to be charged to the appropriation for fire department.

Passed February 18, 1913.

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AN ORDER TO PURCHASE FIVE THOUSAND FEET OF HOSE FOR USE IN THE FIRE DEPARTMENT OF THE CITY OF MANCHESTER.

*Ordered,* That the mayor and committee on fire department be and are hereby authorized and empowered to purchase five thousand feet of hose for use in the fire department of the city of Manchester; the expense thereof not to exceed the appropriation for that purpose and to be charged to appropriation for fire department.

Passed March 18, 1913.

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AN ORDER TO INSTALL FOUR TUNGSTEN LIGHTS.

*Ordered,* That the committee on lighting streets be and is hereby authorized and empowered to install four tungsten lights on Byron street from Brown avenue to B. & M. R. R. track with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets.

Passed March 18, 1913.

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AN ORDER TO BUILD A CERTAIN SEWER FROM MERRIMACK RIVER TO COOLIDGE AVENUE.

*Ordered,* That the board of public works be and is hereby authorized to build a certain sewer as follows: Commencing on the west shore of the Merrimack river north of the Stark mill; thence westerly through land of the Amoskeag Manufacturing Company to McGregor Street or Eddy road; thence westerly through land of Amoskeag Manufacturing Company to Coolidge avenue at a point between Bremer street and Mason street; thence northerly in Coolidge avenue to Rimmon street in said city, and the expense thereof to be charged to the appropriation for new sewers.

Passed March 18, 1913.

## AN ORDER RELATING TO THE DECORATION OF SOLDIERS' GRAVES.

*Ordered*, That the Louis Bell Post, No. 3, G. A. R., be and is hereby authorized and empowered to expend the sum of four hundred dollars for the decoration of soldiers' graves of the said Louis Bell Post and the Spanish War Veterans; said sum of four hundred dollars to be charged to the appropriation for decoration of soldiers' graves, Louis Bell Post, G. A. R.; and that the Joseph Freschl Post, G. A. R., be and is hereby authorized and empowered to expend the sum of one hundred dollars for the decoration of soldiers' graves of the Joseph Freschl Post; said sum of one hundred dollars to be charged to the appropriation for decoration of soldiers' graves, Joseph Freschl Post, G. A. R.; said sums of four hundred dollars and one hundred dollars to be expended under the direction of the mayor.

Passed May 20, 1913.

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## AN ORDER TO PURCHASE AN AUTOMOBILE LADDER TRUCK FOR USE IN THE FIRE DEPARTMENT OF THE CITY OF MANCHESTER.

*Ordered*, That the mayor and committee on fire department be and are hereby authorized and empowered to purchase an automobile ladder truck for use in the fire department of the city of Manchester; said truck to replace truck known as truck No. 3 and provided that the cost of the same shall not exceed six thousand, eight hundred dollars; the expense thereof to be charged to the appropriation for fire department.

Passed May 20, 1913.

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## AN ORDER TO DISCONTINUE AN ARC LIGHT.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to discontinue the arc light now located at the point where Byron street crosses the tracks of the Boston & Maine railroad.

Passed May 20, 1913.

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## AN ORDER TO PURCHASE AN AUTOMOBILE FOR USE OF THE CHIEF OF THE MANCHESTER FIRE DEPARTMENT.

*Ordered*, That the mayor and committee on fire department be and are hereby authorized and empowered to purchase an automobile for the use of the chief of the Manchester fire department, the cost of the same not to exceed the sum of twenty-four hundred dollars; the expense thereof to be charged to the appropriation for fire department.

Passed May 20, 1913.

## AN ORDER FOR THE PURCHASE OF SHRUBS.

*Ordered,* That the committee on lands and buildings be and is hereby authorized to purchase shrubs to be set along the north and west sides of the lot occupied by the old court house building, so called; the expense thereof not to exceed the sum of fifty dollars and to be charged to the appropriation for incidental expenses.

Passed May 20, 1913.

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## AN ORDER TO BUILD CERTAIN SEWERS.

*Ordered,* That the board of public works be and is hereby authorized to build certain sewers as follows: Commencing at the sewer line of Brock street and thence in a westerly direction to the sewer line of Warner street in Mast street in said city; commencing at the sewer line of Wentworth street and thence in a westerly direction to the sewer line of Second street in Bell street in said city; commencing at the sewer line of Amory street and thence in a southerly direction 200 feet in Hevey street in said city; commencing at the sewer line of Wilkins street and thence in a southerly direction to the sewer line of Fogg avenue in Highland avenue in said city; commencing at the sewer line of Forest street and thence in an easterly direction to the sewer line of Bismarck street in Short street in said city; commencing at the sewer line of Amory street and thence in a northerly direction to the sewer line of Kelley in Morgan street in said city; commencing at the sewer line of Taylor street and thence in an easterly direction 225 feet in Cilley road in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed June 3, 1913.

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## AN ORDER TO BUILD CERTAIN SEWERS.

*Ordered,* That the board of public works be and is hereby authorized to build certain sewers as follows: Commencing at the sewer line of Howe street and thence in a southerly direction to the sewer line of Shasta street in Hall street in said city; commencing at the sewer line of Glenwood avenue and thence in a southerly direction to the sewer line of Oakland avenue in Woodbine avenue in said city; commencing at the sewer line of Mast street and thence in a northerly direction nine hundred fifty (950) feet in Warner street in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed June 17, 1913.

## AN ORDER RELATING TO BAND CONCERTS.

*Ordered*, That the mayor be and is hereby authorized and empowered to expend the present year for open air band concerts an amount not exceeding three hundred fifty dollars; said sum of three hundred fifty dollars to be divided equally between the First Regiment band, Germania band, Lafayette band, City band, Cadet band and Tadensza Koscinszki Polish band; said sum of three hundred fifty dollars to be charged to appropriation for band concerts.

Passed June 25, 1913.

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## AN ORDER IN RELATION TO THE CELEBRATION OF INDEPENDENCE DAY.

*Ordered*, That a special committee consisting of the mayor and two aldermen and the president of the common council and two councilmen be and is hereby authorized and empowered to expend the sum of six hundred dollars for the celebration of Independence day; said sum of six hundred dollars to be charged to the appropriation for celebration of Independence day.

Passed June 25, 1913.

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## AN ORDER TO INSTALL ONE ARC AND FIFTY-ONE TUNGSTEN LIGHTS.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to install one arc and fifty-one tungsten lights with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows: Corner of Highland and Lowell streets, arc light. Tungsten lights: Corner of Orange and Belmont streets; corner of Hayward and Jewett streets; corner of Wilson and Howe streets; corner of Hall and Dix streets; corner of Dix and Lincoln streets; corner of Dix and Maple streets; corner of Wilson and Dix streets; corner of Blackstone street and Calef road; on Brown avenue opposite residence of Mrs. Morgan; corner of Hayward and Taylor streets; corner of Chase avenue and Hospital avenue; corner of Bridge street extension and Candia road; corner of Hanover street and Ohio avenue; corner of Sullivan and Cartier streets; corner of Hevey and Bremer streets; corner of Kelley and Morgan streets; corner of Kelley and Montgomery streets; corner of Kelley and Dubuque streets; corner of North Main and Monmouth streets; corner of Garmon and Amherst streets; corner of Pearl and Hall streets; corner of old Bridge street and Observatory road; corner of Smyth road and Blodget street; about in the center of Parker common; corner of Oak and Brook streets; corner of Londonderry and Hall streets; on North River road between Industrial school and Rowell's residence; corner of Union and Arah streets; on Arah street at top of hill east of Beech

street; on Arah street, two lights; corner of Clarke and Bay streets; corner of Everett and Thayer streets; corner of Davis and Victoria streets; corner of Warner and Wilkins streets; corner of Mast street and Worthley road; on Bismarck street at top of hill; corner of Allen and South Main streets; on Second street between Frederick and Schiller streets; corner of Colby and Log streets; on Railroad street near Theuner's residence; corner of Turner and Bath streets; on Hanover street between Ashland and Hall streets; corner of Palmer street and North River road; corner of North River road and Eve street; corner of Belmont and Somerville streets; corner of Hayward and Pine streets; corner of Summer and Wilson streets; corner of Putnam and Dubuque streets; corner of North Main and Adams streets; corner of Hayward and Porter streets.

Passed October 21, 1913.

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AN ORDER TO BUILD CERTAIN SEWERS.

*Ordered,* That the board of public works be and is hereby authorized to build certain sewers as follows: Commencing at the sewer line of Wilson street and thence in an easterly direction six hundred (600) feet in Grove street in said city; beginning at the sewer line of Hall street, thence in an easterly direction one hundred twenty-five (125) feet in Cedar south back street in said city; commencing at the sewer line of Alsace street, thence in an easterly direction to the sewer line of Reed street in Bremer street in said city; commencing at the sewer line of Hevey street and thence in a westerly direction to the sewer line of Youville street in Bremer street in said city; commencing at the sewer line of Valley street and thence in a southerly direction to the sewer line of Merrill street in Woodman street in said city; commencing at the sewer line of Woodman street and thence in a westerly direction 300 feet in Merrill street in said city; beginning at the sewer line of Hanover street, thence in a northerly direction to the sewer line of Amherst street in Highland street in said city; commencing at the sewer line of Hanover street and thence in a northerly direction to the sewer line of Amherst street in Hilton street in said city; commencing at the sewer line of Weston street and thence in an easterly direction to the sewer line of Highland street in East High street in said city; beginning at the sewer line of Lincoln street and thence in an easterly direction 200 feet in Shasta street in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed November 4, 1913.

## AN ORDER TO DISCONTINUE FOUR ARC LIGHTS AND INSTALL FIVE TUNGSTEN LIGHTS.

*Ordered*, That the mayor and committee on lighting streets be and are hereby authorized and empowered to discontinue four arc lights located as follows: On Manhattan lane between Spruce and Cedar streets; corner of Mammoth road and old Bridge streets; on Arah street; at end of Harrison street; and to install in place thereof five Tungsten lights at the following locations: On Manhattan lane between Spruce and Cedar streets; corner of Mammoth road and old Bridge street; on Arah street, two lights; at end of Harrison street; the expense thereof to be charged to the appropriation for lighting streets.

Passed November 10, 1913.

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## AN ORDER TO INSTALL ONE TUNGSTEN LIGHT.

*Ordered*, That the mayor and committee on lighting streets be and are hereby authorized and empowered to install one tungsten light on Orange street between Linden and Hall streets; the expense thereof to be charged to the appropriation for lighting streets.

Passed November 10, 1913.

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## AN ORDER TO INSTALL FIVE FIRE ALARM BOXES.

*Ordered*, That the committee on fire department be and is hereby authorized and empowered to install five fire alarm boxes with proper fixtures for operating the same; the expense thereof to be charged to the appropriation for fire department; said fire alarm boxes to be located as follows: Corner of Elmhurst avenue and Calef road; corner of Rimmon and Amory streets; corner of Beech and Hayward streets; corner of Boynton street and Glenwood avenue; corner of West Clarke street and River road.

Passed November 10, 1913.

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## AN ORDER TO INSTALL ONE TUNGSTEN LIGHT.

*Ordered*, That the mayor and committee on lighting streets be and are hereby authorized and empowered to install one tungsten light at the corner of Shasta and Willow streets with proper fixtures for operating the same; the expense thereof to be charged to the appropriation for lighting streets.

Passed December 2, 1913.

AN ORDER RELATING TO THE PAYMENT OF TAXES UPON CERTAIN PARCELS OF LAND SOLD TO THE CITY OF MANCHESTER FOR NON-PAYMENT OF TAXES.

*Ordered,* That a committee consisting of the mayor, city auditor and the city solicitor be appointed for the purpose of making arrangements to pay the taxes for the current year upon certain parcels of unimproved land sold to the city of Manchester for non-payment of taxes for the years 1911 and 1912 and which have not been redeemed since said sales; the expense thereof to be charged to the appropriation for land sold for taxes.

Passed December 16, 1913.

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AN ORDER TO INSTALL TEN TUNGSTEN LIGHTS AND DISCONTINUE ONE ARC LIGHT.

*Ordered,* That the mayor and committee on lighting streets be and are hereby authorized and empowered to discontinue the arc light at the corner of Jewett street and Cilley road and to install ten tungsten lights with proper fixtures for operating the same at the following locations: Corner of Monitor and Kearsarge streets; corner of Hall street and Cilley road; corner of Lowell and Buzzell streets; corner of Clay and Cypress streets; on Candia road at end of loop of the Manchester Street Railway; corner of Somerville and Maple streets; corner of Clay and Jewett streets; corner of Manhattan lane and Cedar south back street; corner of Jewett street and Cilley road; corner of Shirley street and New Mast road; the expense thereof to be charged to the appropriation for lighting streets.

Passed December 16, 1913.

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AN ORDINANCE RELATING TO INSPECTION OF BUILDINGS BY MEMBERS OF THE MANCHESTER FIRE DEPARTMENT.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. It shall be the duty of the board of fire engineers to cause to be inspected by officers or members of the fire department, as often as may be necessary or practicable, all buildings and premises in the closely built sections of the city, except the interiors of private dwellings, for the purpose of ascertaining and causing to be corrected any conditions therein that tend to increase the fire hazard. Whenever such inspection shall disclose in any such building or premises any such conditions, the board of fire engineers shall order the same to be corrected and such order shall be complied with by the owner or occupant of such building or premises subject to appeal within twenty-four hours to the mayor, who shall, within ten days, review



such order and file his decision thereon, and unless the order is revoked or modified, it shall be obeyed by such owner or occupant within ten days thereafter. The service of any such order shall be made by the board of fire engineers or their authorized agent upon the owner or occupant of said premises or both by giving in hand to him or them a true copy of the order or by posting such a copy conspicuously upon the premises and, in case the owner is out of the jurisdiction, by mailing a true copy to his last known address.

SECT. 2. Whenever any defect shall be discovered, the correction of which comes within the jurisdiction of the superintendent of buildings, the board of engineers shall at once notify in writing said superintendent of buildings of said defect.

SECT. 3. Any person or persons, firm or corporation, violating any provisions of this ordinance shall be fined not more than twenty dollars for each offense.

SECT. 4. This ordinance shall take effect upon its passage.

Passed March 18, 1913.

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AN ORDINANCE IN AMENDMENT OF SECTIONS 580, 581 AND 584 OF THE BUILDING CODE OF THE CITY OF MANCHESTER, RELATING TO BILL BOARDS.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. Amend section 580 of the building code in the first line thereof after the word "than" by striking out the word "ten" and inserting in place thereof the word "fourteen" and in the fourth line thereof after the word "to" by striking out the words "ten by forty-two and one-half feet" and inserting in place thereof the words "fourteen by one hundred feet," so that said section, as amended shall read as follows:

SECT. 580. No sign or bill board shall be higher than fourteen feet over all; and the maximum area of any sign or bill board shall not exceed an area equal to fourteen by one hundred feet, but a space of not more than ten by one hundred feet or one thousand square feet shall be used for posting bills.

SECT. 2. Amend section 581 of the building code in the first line thereof after the word "located" by striking out the words "within ten feet of the street line or" and inserting in place thereof the words "nearer the street line than," so that said section, as amended, shall read as follows:

SECT. 581. No sign or bill board shall be located nearer the street line than the front building line of the next building adjoining, farthest from the street line, that is used as a public building, tenement house, dwelling, hotel, office or store building.

SECT. 3. Amend section 584 of the building code in the fourth line thereof after the word "exceeds" by striking out the word "sixty-five"

and inserting in place thereof the words "fourteen hundred" and in the seventh line thereof after the word "building" by striking out the words "if its area exceeds seventy-three square feet or is in excess of seven feet in height," so that said section, as amended, shall read as follows:

SECT. 584. All sign boards wider than thirty inches or exceeding in area thirty-three square feet shall be of metal, or wood, metal clad on all exposed sides; but no such sign board if it exceeds five hundred square feet in area shall be attached to the face of a building, nor shall any such board be placed upon the roof or coping wall of a building. But no sign of any kind shall be attached to or placed upon a building in such a manner as to obstruct any window or fire escape thereon, nor shall the bottom of any sign be less than three feet above the roof.

SECT. 4. This ordinance shall take effect upon its passage and all ordinances or parts of ordinances inconsistent therewith are hereby repealed.

Passed April 1, 1913.

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AN ORDINANCE IN AMENDMENT OF SECTIONS 455 AND 496 OF THE BUILDING CODE RELATING TO BUILDINGS INTENDED TO BE USED FOR THEATRICAL OR ENTERTAINING PURPOSES.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. Amend sections 455 and 496 of the building code of the city of Manchester so as to allow the premises on Lowell street known as the Universalist church property to be used for the exhibition of moving pictures according to certain plans which are hereby made a part of this ordinance and provided that all stairways leading to gallery shall be constructed of fireproof material.

SECT. 2. This ordinance is for the above mentioned purpose and for no other purpose whatsoever.

SECT. 3. This ordinance shall take effect upon its passage.

April 28, 1913, vetoed by mayor and passed over his veto.

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AN ORDINANCE RELATING TO THE DEPARTMENT OF WEIGHTS AND MEASURES OF THE CITY OF MANCHESTER.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. That a department of weights and measures be established and the sealer of weights and measures shall be the head of said department.

SECT. 2. The sealer of weights and measures shall perform all the duties now prescribed by law for the sealer of weights and measures of the city of Manchester.

SECT. 3. He shall devote all of his time to the duties of his office and shall receive a salary of twelve hundred dollars per annum to be paid semi-monthly and an additional sum of three hundred dollars for the keep of a team for the use of said department.

SECT. 4. The salary of the sealer of weights and measures shall date from the day he qualifies under this ordinance.

SECT. 5. This ordinance shall take effect upon its passage.

Passed June 3, 1913.

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AN ORDINANCE IN AMENDMENT OF SECTIONS 148, 191, 238 AND 552 OF  
THE BUILDING CODE OF THE CITY OF MANCHESTER.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. Amend section 148 of the building code in the twentieth line thereof after the word "in" by adding the word "cement," so that said section, as amended, shall read as follows:

SECT. 148. Foundation walls shall be built of stone or brick, with cement mortar, or of Portland cement concrete, except foundations for frame buildings and private stables, and for buildings not more than two stories in height, which may be built with lime and cement mortar. If built of Portland cement concrete they shall be at least four inches thicker than the wall next above them in a depth of twelve feet below the curb level, and for every additional ten feet or part thereof deeper, they shall be increased six inches in thickness. The footing or base course shall be of stone or concrete, or both, or of concrete and stepped up brick work of sufficient thickness and area safely to bear the weight to be imposed thereon.

Foundation walls of wood frame buildings may be built with good ledge stone laid dry and thoroughly pointed on the inside with lime and cement mortar when such method is approved by the superintendent of buildings. All field and "cobble" stone must be laid in cement mortar.

SECT. 2. Amend section 191 of the building code in the second and third lines thereof after the word "family" by striking out the words "where not separated by a hall or staircase," so that said section, as amended, shall read as follows:

SECT. 191. In all apartment houses the dividing walls or partitions between the apartments provided for each family shall be made of incombustible material or semi-combustible stud partitions. In the absence of definite sub-divisions between the apartments of different families, eight rooms shall be counted as the equivalent of one apart-

ment. In all buildings not of fireproof construction there shall be for every eight rooms in any one story dividing walls or partitions of incombustible material separating the rooms from the contiguous spaces.

SECT. 3. Amend section 238 of the building code in the eleventh line thereof after the word "within" by striking out the word "two" and inserting in place thereof the word "three," so that said section, as amended, shall read as follows:

SECT. 238. All chimneys shall be built of brick, stone or other fireproof materials. The exterior walls of chimneys shall be at least four inches thick and constructed with a suitable flue lining of terra cotta or eight-inch walls without lining may be used.

All chimney flues shall be provided with iron clean-out doors at the base of the chimney.

Where chimneys are built in outside walls, the flue lining shall start not less than two feet below the underside of the first floor joists. The flue lining over fireplaces shall commence within three feet of the throat of the fireplace. That portion of the chimney from throat of fireplace to the flue lining shall be thoroughly plastered with cement mortar both inside and outside. When chimneys are built inside without fireplaces they shall be built plumb from the foundation, and the flue lining shall start not more than two feet from the cellar floor and extend up through the roof. No tile shall be used for chimney unless enclosed with four inches of brick work.

SECT. 4. Amend section 552 of the building code in the first line thereof after the word "erected" by adding the words "or altered," so that said section, as amended, shall read as follows:

SECT. 552. In every building hereafter erected or altered the total window or skylight area in every watercloset, compartment, or bathroom shall not be less than three square feet, and no such window or skylight shall be less than one foot in width, measured between stop beads, but in toilet rooms and bathrooms that are artificially ventilated by fans electrically driven, windows and skylights may be omitted. In every such compartment that contains more than three plumbing fixtures, the window or skylight area given above shall be increased one square foot for each additional fixture in excess of three, and when a skylight is provided it shall contain an automatic ventilator or ventilators or an area of at least twenty-eight square inches for each fixture.

SECT. 5. This ordinance shall take effect upon its passage and all ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Passed June 17, 1913.

AN ORDINANCE IN AMENDMENT OF SECTION 21 OF CHAPTER 6 OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER, RELATING TO COMPENSATION OF LIEUTENANTS OF FIRE COMPANIES.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. Amend section 21 of chapter 6 of the laws and ordinances in the sixth line thereof after the word "annum" by adding the words "permanent lieutenants of fire companies, each, one thousand twenty-five dollars per annum," so that said section, as amended, shall read as follows:

SECT. 21. The compensation of the several hook-and-ladder, hose, steam fire engine and chemical engine companies, who shall personally perform all the duties required by law, shall be as follows: Permanent captains of fire companies, each, eleven hundred dollars per annum; permanent lieutenants of fire companies, each, one thousand twenty-five dollars per annum; permanent engineers of fire companies, each, ten hundred and fifty dollars per annum; other permanent men of fire companies, each, eight hundred dollars per annum, for first year, nine hundred dollars per annum for second year, and one thousand dollars per annum for third year and thereafter, all payable semi-monthly. Call engineers of steamers, each two hundred and thirteen dollars per annum; lieutenants of fire companies, each, one hundred and ninety-eight dollars per annum; clerks of fire companies, each, one hundred and ninety-eight dollars per annum; all other members of fire companies, each, one hundred and eighty-eight dollars per annum; all payable in equal semi-annual payments on the first days of January and July.

Whenever a substitute, except a spare driver, so called, is employed by a permanent fireman, so called, he shall receive the same compensation as the said permanent fireman, to be paid by the city treasurer, upon voucher of chief engineer duly approved by the committee on accounts.

SECT. 2. This ordinance shall take effect upon its passage.

Passed September 24, 1913.

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AN ORDINANCE IN AMENDMENT OF SECTION 20 OF CHAPTER 19 OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER, RELATING TO THE ERECTION OF A MARQUISE OVER THE SIDEWALK IN ELM STREET IN FRONT OF THE AMOSKEAG BANK BUILDING.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. Amend section 20 of chapter 19 of the Laws and Ordinances of the city of Manchester for the purpose of allowing the

Amoskeag Savings Bank to erect and maintain a marquise over the sidewalk in Elm street in said Manchester in front of the Amoskeag bank building, so called, said marquise to be nineteen feet four inches in length and eleven feet seven inches in width and the lowest part thereof to be eleven feet four inches above the sidewalk, and said marquise to be safely attached to said building and strongly supported.

SECT. 2. The intent of this ordinance is to amend section 20 of chapter 19 of the said laws and ordinances for the above mentioned purpose and for no other purpose whatsoever.

SECT. 3. This ordinance shall take effect upon its passage.

Passed October 29, 1913.

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AN ORDINANCE IN AMENDMENT OF SECTION 3 OF CHAPTER 18 OF THE LAWS AND ORDINANCES, RELATING TO CONSTRUCTION OF DRAINS.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. Amend section 3 of chapter 18 of the Laws and Ordinances in the fifth line thereof after the word "cemented" by striking out the remainder of said section and inserting in place thereof the following: "or calked. Drain pipes from fixtures in cellars and basements shall be provided with a gate or some other apparatus that shall prevent the water from the common sewers pouring back through said drain. Said gate or other apparatus shall be inserted between the main stack and said cellar or basement fixtures," so that said section, as amended, shall read as follows:

SECT. 3. All drains which shall be entered into the common sewers shall be constructed of stone, brick, cement, concrete, vitrified or glazed sewer pipe, or iron, and all the joints and connections securely cemented or calked. Drain pipes from fixtures in cellars and basements shall be provided with a gate or some other apparatus that shall prevent the water from the common sewers pouring back through said drain. Said gate or other apparatus shall be inserted between the main stack and said cellar or basement fixtures.

SECT. 2. This ordinance shall take effect upon its passage and all ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Passed December 2, 1913.

AN ORDINANCE IN AMENDMENT OF CHAPTER 18 OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER, RELATING TO THE DISCONNECTION AND DISCONTINUANCE OF DRAINS.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. Amend section 11 of chapter 18 of the Laws and Ordinances by striking out the whole of said section and inserting in place thereof the following sections:

SECT. 11. No person shall disconnect or discontinue the use of any drain or pipe which enters any of the sewers constructed by the city without first obtaining a permit therefor from the engineer's department. The board of public works, upon receipt of notification from the engineer's department that a permit has been granted to disconnect or discontinue the use of an existing drain or pipe which enters a sewer constructed by the city, shall cause said drain or pipe to be properly disconnected and closed.

SECT. 12. Any person offending against sections ten and eleven of this chapter shall be fined not less than one dollar nor more than ten dollars, and one dollar for every day he shall continue such offense.

SECT. 2. This ordinance shall take effect upon its passage and all ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Passed December 16, 1913.

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AN ORDINANCE IN AMENDMENT OF SECTION 93 OF THE BUILDING CODE, RELATING TO THE FIRE LIMITS.

*Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:*

SECTION 1. Amend section 93 of the building code by striking out the whole of said section and inserting in place thereof the following:

SECT. 93. The fire limits of the city of Manchester shall be that portion of the city on the east side of the Merrimack river included within the following limits; to wit:

Beginning at the intersection of the center line of Harrison street with the center line of Pine street; thence westerly by the center line of Harrison street to the center line of Elm street; thence northerly by the center line of Elm street to the center line of Langdon street; thence westerly by the center line of Langdon street to the center line of Elm west back street; thence southerly by the center line of Elm west back street to the center line of Bridge street; thence southerly by a line one hundred ten feet west of the west line of Elm street and parallel thereto to the center line of Spring street; thence southerly by the center line of Hampshire lane to the center line of Pleasant

street; thence westerly by the center line of Pleasant street to the right of way of the Boston and Maine railroad; thence in a southeasterly direction along the right of way of the Boston and Maine railroad to the center line of Hayward street extended westerly; thence easterly by the center line of Hayward street extended and the center line of Hayward street to the center line of Pine street; thence northerly by the center line of Pine street to the center line of Laurel south back street; thence easterly by the center line of Laurel south back street to the center line of Union street; thence northerly by the center line of Union street to the center line of Seneca lane; thence westerly by the center line of Seneca lane to the center line of Pine street; thence northerly by the center line of Pine street to the center line of Harrison street at the point of beginning.

And on the west side of the river, that portion of the city bounded as follows:

Beginning at the intersection of the center line of Main street with the center line of the northerly terminus of McGregor street; thence westerly by an angle of ninety degrees to the easterly line of Main west back street; thence southerly by the easterly line of Main west back street to the southerly line of Wilton street; thence southerly on a line one hundred feet westerly from and parallel to the westerly line of Main street and South Main street to the center line of Mast street; thence southeasterly by the center line of Mast street and the center line of Log street to a point one hundred feet easterly from the easterly line of South Main street; thence northerly on a line one hundred feet easterly from and parallel to the easterly line of South Main street and Main street to the center line of Douglas north back street; thence westerly by the center line of Douglas north back street to the center line of Main street; thence northerly by the center line of Main street to the southerly terminus of the center line of McGregor street; thence northeasterly by the center line of McGregor street to the center line of West Bridge street; thence northwesterly by the center line of McGregor street to the point of beginning.

SECT. 2. This ordinance shall take effect upon its passage and all ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Passed December 16, 1913.



**INDEX.**



## INDEX.

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### A

	Page
Amoskeag cemetery .....	141
Animal Rescue league.....	163
Appropriations for 1913 by city council.....	167, 171
Appendix, school .....	310
Assessors' department .....	67
Assets, statement and inventory of.....	200, 208
Auditor, city, report of.....	37
Auditor's department .....	69

### B

Band concerts .....	161
Board of public works .....	70
water commissioners, organization of .....	212
report of .....	213
health, report of .....	469
Bonded debt, tabular statement of.....	196
annual interest charge.....	199
Books and stationery.....	141
Boys' club .....	164
Bridges .....	86
Brown-tail and gypsy moth.....	100
Building department .....	69
Bridge—Kelley street .....	87

### C

Care of schoolrooms .....	146
city clocks .....	130
school clocks .....	154
Celebration of Independence Day.....	163
Christian association, Young Men's .....	167
Churches, etc., valuation of, exempt from tax.....	182, 195
City auditor's department .....	69
report .....	37
engineer, report of .....	501
hall .....	52

	Page
City library .....	110
donations to .....	452
librarian's report .....	444
report of trustees of.....	443
treasurer's report .....	462
officers' salaries .....	65
officials, list of .....	3, 21
teams .....	88
treasurer's report .....	27
yard .....	100
Commons .....	94
Contingent expenses .....	144
County tax .....	163
Cutting and trimming trees.....	102

## D

Debt, payment of funded.....	49
bonded, statement of.....	196
Decoration of soldiers' graves.....	162
Derryfield and Stark parks.....	95, 96
District Nursing association.....	163

## E

East Side park.....	98
Elliot hospital .....	164
Elm leaf beetle.....	102
Engineer's department .....	104
Evening schools .....	148
school, mechanical drawing.....	149
Exempted from tax, property.....	182, 195
Expenses, incidental .....	55
mayor's .....	70
contingent .....	144

## F

Farm, paupers off .....	154
Fires, list of .....	372
Fire department .....	113
report of chief engineer.....	357
value of personal property.....	422, 430
location of fire-alarm boxes.....	364
names and residences of members.....	430
Fire-alarm telegraph .....	119
Free text-books .....	151
Fuel .....	143
Furniture and supplies.....	142

## G

	Page
Grading for concrete.....	81
Graduates High school.....	338
Graves, decoration of soldiers'.....	162

## H

Head & Dowst Purchase.....	103
Health department .....	106
board of, report of.....	469
inspectors of, report of.....	489, 498
Highways, new .....	79
watering .....	76
paving .....	77
macadamizing .....	79
grading for concrete on.....	81
lighting .....	103
repairs of .....	72
Home, Women's Aid .....	166
Hospital, Elliot, free beds.....	164
Sacred Heart .....	165
Notre Dame de Lourdes.....	164
Hospice St. Vincent de Paul.....	164
Hydrant service .....	120

## I

Inaugural address, mayor's .....	25
Incidental expenses .....	55
Indigent soldiers .....	160
Inspector of buildings, report of.....	717
Interest .....	48
annual charge, bonded debt.....	199
Inventory of assets.....	200, 208
Infant asylum .....	164

## L

Laws relating to exemptions.....	181
Lighting streets .....	103
Library, city .....	110
Lafayette park .....	97

## M

Macadamizing streets .....	79
Machine sweeping .....	81

	Page
Manual training .....	152
Mayor's incidentals .....	70
Mercy Home .....	166
Merrill cemetery .....	141
Militia .....	162
Miscellaneous playgrounds .....	99
Money unappropriated .....	49
Municipal receipts and expenditures.....	42

## N

New fire-alarm and building.....	128
New highways .....	79
Notre Dame de Lourdes Girls' Orphanage.....	165

## O

Oiling streets .....	85
Orders, ordinances and resolutions.....	739
Orphelinat St. Pierre.....	165

## P

Parks, Derryfield and Stark.....	95, 96
Parsonages, valuation of, exempt from taxation.....	182, 195
Paupers off the farm.....	154
Paving streets .....	77
Payment of funded debt.....	49
Piano, Maynard school .....	154
Pine Grove cemetery.....	136
Plans for Vocational Training school.....	154
Plumbing examiners, report of .....	494
expenses .....	161
Police department, station .....	123
court .....	124
commission .....	120
Printing and stationery .....	54
advertising .....	141
Property account, real and personal.....	290, 208
Prout park .....	97
Purchase of land sold for taxes.....	160

## R

Repairs of buildings .....	125
highways .....	72
school furniture .....	153
Report of board of water commissioners.....	213
superintendent of water-works.....	217

INDEX.

777

	Page
Report of city engineer .....	501
city physician .....	721
chief engineer fire department.....	357
trustees of city library.....	443
overseer of the poor.....	725
subtrustees of Valley cemetery .....	580
Pine Grove cemetery.....	577
Amoskeag cemetery .....	581
treasurer of cemeteries.....	582
treasurer of cemetery fund.....	585
treasurer of sinking fund.....	597
board of public works.....	611
committee on sewers and drains.....	533
committee on streets.....	525
school superintendent .....	289
board of health.....	469
city auditor .....	37
city treasurer .....	37
Real and personal estate owned by the city.....	200, 208
Receipts and expenditures, 1913.....	42
Revision of ordinances.....	167
Resolutions, orders, and ordinances.....	739
Rock Rimmon park.....	98
Rules, etc., relating to bills against the city (auditor's dept.)	208

S

Sacred Heart hospital.....	165
Salaries of city officials.....	65
St. Joseph's Boys' orphanage.....	166
St. John's Home .....	165
St. Patrick's Girls' orphanage.....	166
Scavenger service .....	82
School department, organization of.....	340
superintendent's report .....	289
Schoolhouses, new .....	129
Settlement association .....	165
Sewers, repairs of .....	91
new .....	92
Sinking fund .....	49
treasurer's report .....	597
Snow and ice and cleaning streets.....	75
Soldiers, indigent .....	160
Stark and Derryfield parks.....	95, 96
Statement of bonded debt.....	196
State tax .....	162
Street sweeping .....	83
Subway comfort .....	130

## T

	Page
Tabular statement of taxation by board of assessors.....	175, 176
Taxes due and uncollected.....	180
Tax, state .....	162
county .....	163
Tax valuations .....	175
Taxation, appropriation for 1913.....	167, 171
settlement of account tax collector.....	179
Teachers, list of.....	342
Teachers' salaries .....	150
Temporary loan .....	51
Text-books, free .....	151
Transfers, final for 1913.....	172

## V

Valley cemetery .....	138
Valuation and taxes, 1913.....	177

## W

Watering streets .....	76
Water-works, superintendent's report .....	217
commissioners' report .....	213
expenses .....	131
West Side reading room.....	166
West Manchester engine house.....	127
Women's Aid Home.....	166

## Y

Youngsville schoolhouse, addition to.....	129
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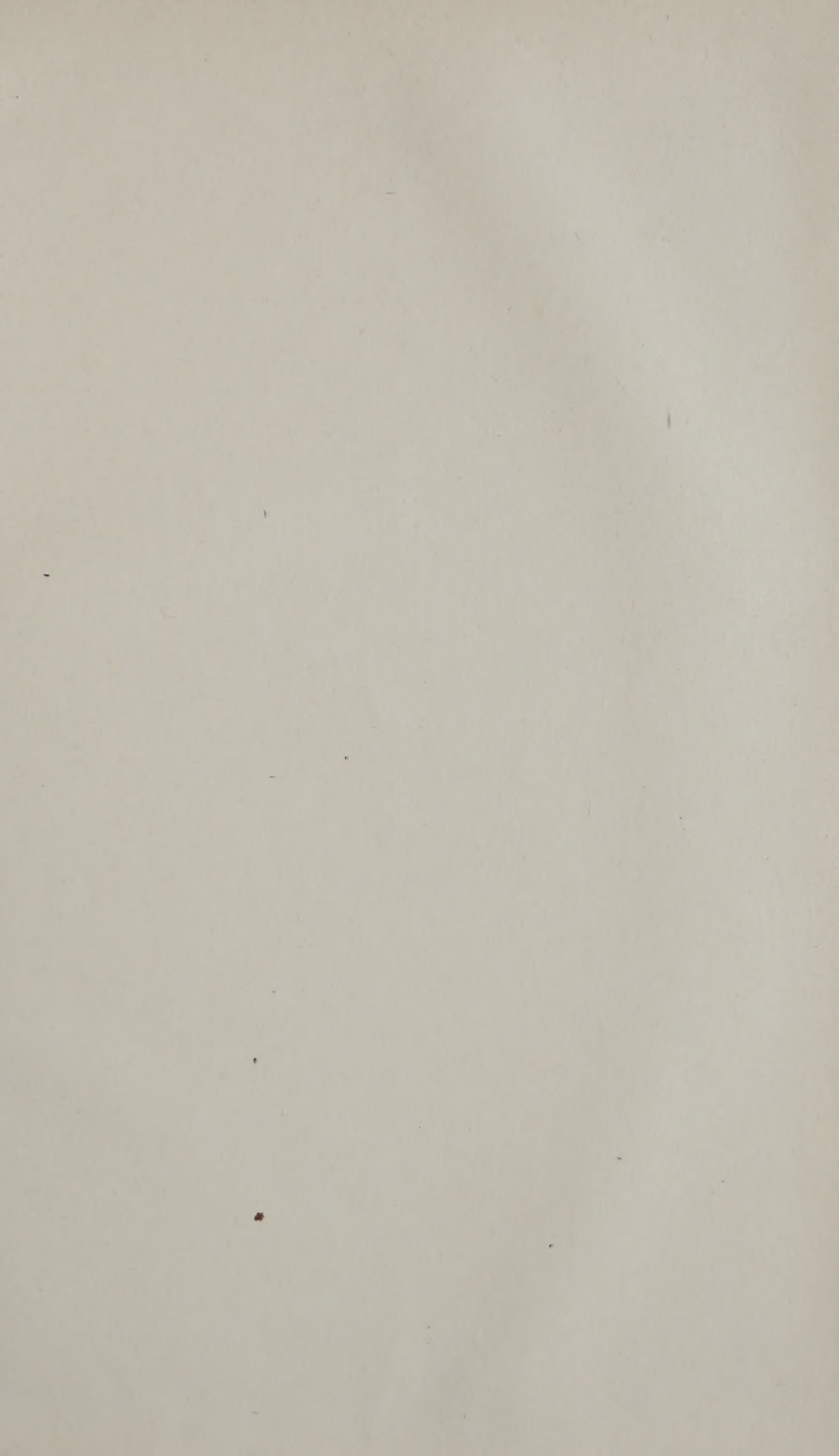


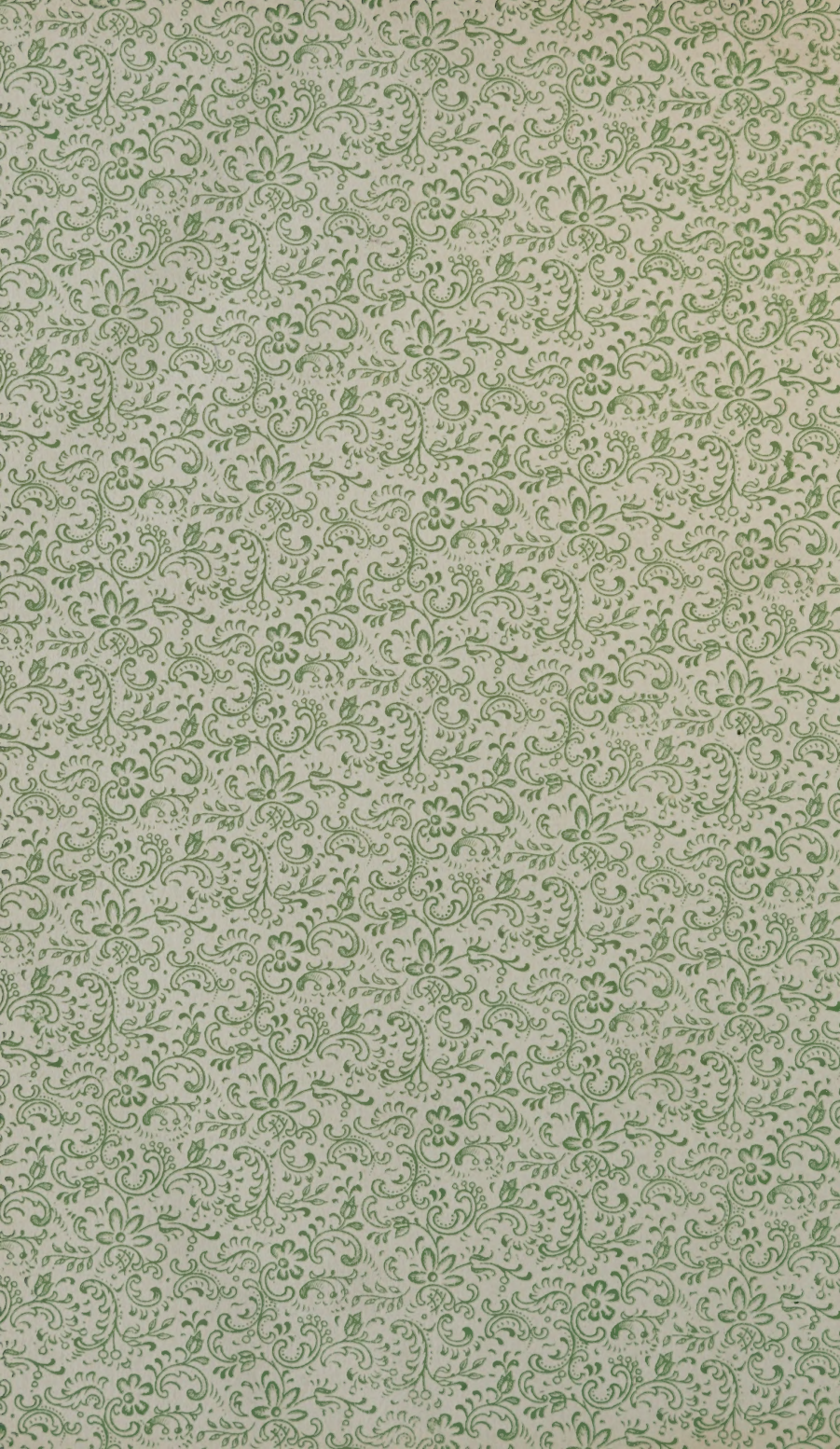


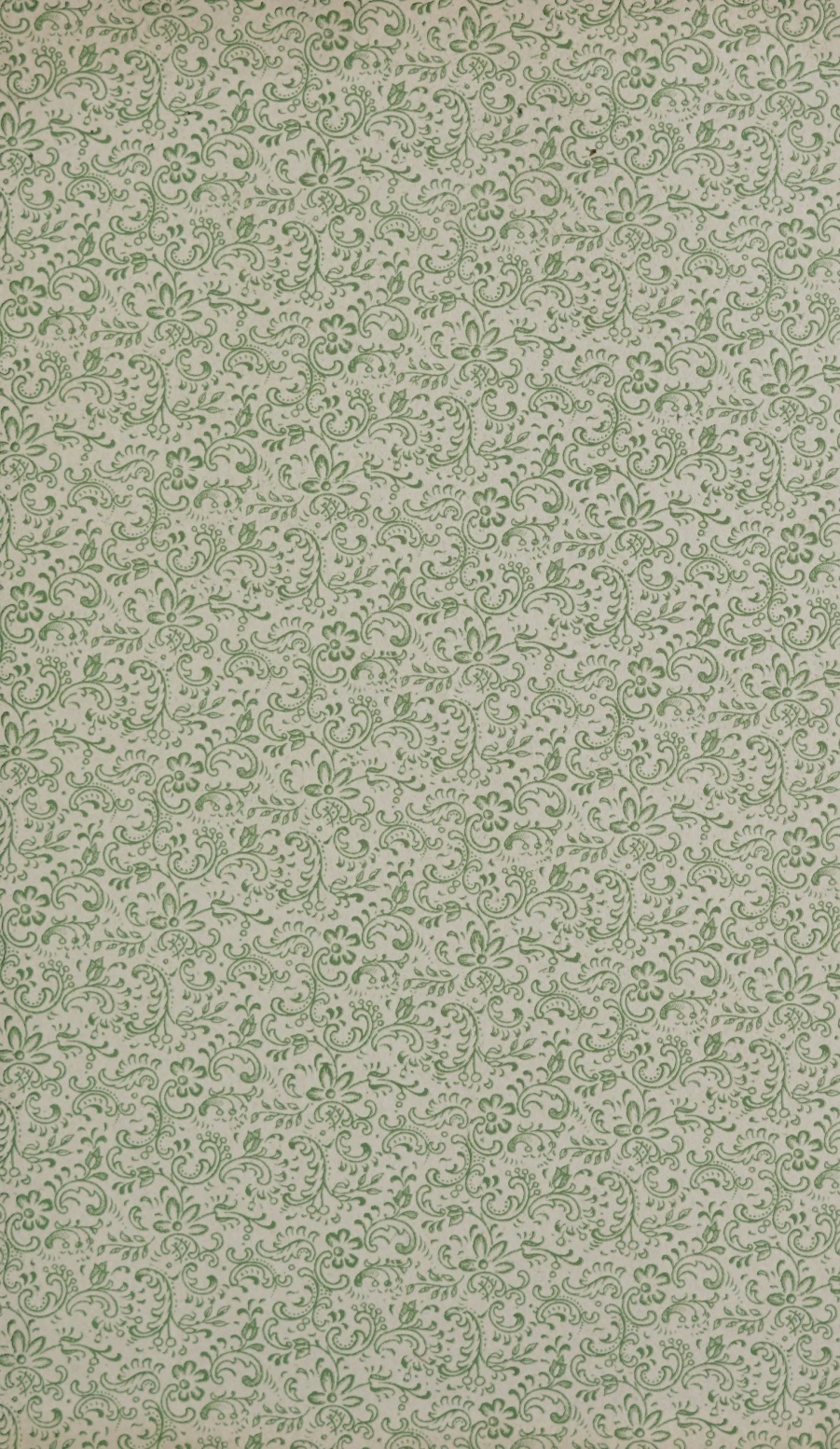












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