ANNUAL REPORT

OF THE OFFICERS OF THE

TOWN OF WATERTOWN,

FOR THE

YEAR ENDING JANUARY 31, 1887.

WATERTOWN:
FRED. G. BARKER, PRINTER.
1887.
POPULATION.

The whole number of inhabitants of Watertown, per State Census of 1885, was 6,238. Males, 3,004; females, 3,234.

TOWN OFFICERS, 1886.

For Selectmen, Overseers of the Poor and Appraisers.

CHARLES BRIGHAM,
CHARLES W. STONE.

JAMES F. LYNCH,

Town Clerk.

WILLIAM H. INGRAHAM.

Town Treasurer.

JOHN K. STICKNEY.

Assessors.

WILLIAM H. INGRAHAM, Chairman,
WILLIAM E. FARWELL.

*FRANK M. KELLY,

School Committee.

JULIAN A. MEAD, Chairman. Term expires March, 1889.
M. J. KELLEY, " " " 1889.
CHARLES W. STONE, Clerk. " " " 1888.
CHARLES S. ENSIGN. " " " 1888.
JOSHUA C. STONE. " " " 1887.
REV. R. P. STACK.† " " " 1887.

Auditor.

HOWARD RUSSELL.

*Before entering upon the duties of the office Frank M. Kelly left town, and Michael Carroll, 2d, was chosen to fill the vacancy.
†October, Rev. R. P. Stack resigned and Lawrence S. Smith was chosen to fill the vacancy.
TOWN OFFICERS.

Constables.
EZRUM V. HOWARD.
GEORGE PARKER.
DANIEL H. COONEY.

Surveyor of Highways.
CHARLES F. JACKSON.

Collector of Taxes.
WILLIAM E. FARWELL.

Fence-Viewers.
GEORGE PARKER.
BRADSHAW WHITNEY.
LUTHER BENT.

Trustees of Free Public Library.
JOSHUA COOLIDGE, Chairman. Term expires 1889.
GEORGE N. MARCH. " " 1889.
Rev. R. P. STACK. " " 1888.
EDWARD E. ALLEN. " " 1888.
Rev. EDWARD A. RAND. " " 1887.
A. O. DAVIDSON. " " 1887.

Board of Health.
JULIAN A. MEAD.
DAVID FLANDERS.
J. J. SULLIVAN.

Officers Appointed by the Selectmen.

Field Drivers.
ZACHARIAH BOODEY.
GEORGE PARKER.
JAMES F. BURKE.

Regular Police.
GEORGE PARKER.
DANIEL H. COONEY.

Policemen Specially Appointed, with pay when on duty.
MICHAEL CARROLL.
JAMES F. BURKE.

EZRUM V. HOWARD.
THOMAS F. LYONS.
DANIEL H. COONEY.

EZRUM V. HOWARD.
THOMAS F. LYONS.
RICHARD NEWMAN.
MICHAEL F. LYONS.
TOWN OFFICERS.

Probation Officer.
GEORGE PARKER.

Keeper of Lock-up.
JOHN H. HOLT.

Inspector of Oil.
ROBERT L. DAVIS.

Keeper of Almshouse and Pound.
*ZACHARIAH BOODEY.

Sealers of Weights and Measures.
GEORGE H. GREGG.

Measurers of Wood and Bark.
CHARLES W. BERRY.
HARRY E. DADMUN.

Clerks of the Market.
EZRUM V. HOWARD.
GEORGE PARKER.

Measurers of Grain.
WILLIAM H. PERKINS.
JAMES W. MAGEE.
ROBERT LINDSEY.

Public Weigher and Superintendent of Hay Scales.
THOMAS PATTEN.

Janitor of Town Hall.
GEORGE H. GREGG.

Private Weighers of Coal, Hay, Live Animals, etc.
WILLIAM H. PEVEAR.
JOHN J. GAVIN.
GEORGE H. DAY.
HARRY E. DADMUN.

WILLIAM P. HARRIS.
A. D. HENDERSON.
WALDO A. LEARNED.
JAMES H. FLAGG.

*June 9, John Reed was appointed to fill vacancy caused by death of Z. Boodey.
TOWN OFFICERS.

Registrars of Voters.

MICHAEL B. COLLIGAN, Chairman. WM. H. INGRAHAM, Clerk.
O. W. DIMICK. WM. C. FOLEY.

Special Police, without pay.

GEORGE H. GREGG, JAMES D. HENTHORN, Newton.
LINUS A. SHAW, E. O. DAVIS, Newton.
JAMES D. EVANS, GEORGE F. BAKER, Newton.
HIRAM NEVINS, Cambridge. WILLIAM EMERSON, Newton.
DAVID CHENERY, Belmont.

Board of Engineers of Fire Department.

JOHN ADDISON YORK. MICHAEL CARROLL, 2nd.
BRADFORD HOLBROOK

Forest Fire Wards, (Law of 1886.)

JOHN ADDISON YORK. BRADFORD HOLBROOK.
MICHAEL CARROLL, 2nd.
REPORT OF THE SELECTMEN.

In presenting to your attention the reports of the various departments we find it unnecessary to make much special comment, other than to give a general idea of such facts relating to their condition as may not be contained therein.

We have felt, in common with a large number of citizens, that it was unfortunate for the interests of the town that its expenses and appropriations should have been so large as to have necessitated the unusually high rate of taxation imposed last year. Only once before in twenty years, (1867) has the tax levy reached so high a figure, and while there is every reason for us to be proud of the flourishing condition of the town, yet there is a wide-spread feeling that it would be well the ensuing year to pause and consider seriously whether it is not possible to conduct its affairs with greater economy.

To assist you in discussing and forming an intelligent opinion upon this subject we submit in an appendix to our report, tables showing the expenses of the principal departments during the last twenty years.

It will be noticed that there have been times of liberal and unusual expenditure as well as seasons of economy.

We have noted most of the purposes for which special or extraordinary outlay has been made and it seems to us that an impartial criticism of the administration of the town's finances as shown by these tables will stimulate this widely expressed desire for economy and lead to beneficial results.

The large payment which it has been the custom to make every year for the reduction of the town debt is no longer of so much consequence as formerly, the total debt at the present time being only $25,500, and the interest thereon $1330 per year.
SELECTMEN’S REPORT.

The interest account will soon be diminished by refunding a portion ($10,000.) at a lower rate, the notes for this amount expiring in April, 1887. A similar reduction of interest may be expected the following year on the maturity of other notes of $10,000.

We suggest, therefore, that as there will be very little danger of any material increase of the total for any cause now known, the usual appropriation for its reduction might at least for one year be omitted.

It has been the custom of the town, almost without exception for many years, to appropriate a considerable sum for discount of taxes, and to allow a large rate (4 per cent.) on all taxes paid before the first day of September. You might consider whether it would not be better to allow a smaller rebate, say 2 per cent., and to charge interest upon all unpaid taxes from an earlier date than December, say 1st of November.

It can readily be seen that he who pays his taxes promptly on the first day of September, with a discount of 4 per cent. has paid at the rate of $14.40, instead of the nominal one of $15.00, and that the town pays very high interest, i.e. 12 per cent. per year, for the use of such money. We might suggest that the discount if proper at all, ought to follow in some degree the prevailing rates at which money is lent, and that what was proper when money brought 7 and 8 per cent. at interest may not be reasonable to-day.

Would it not be equally fair to apply this suggestion to the rate of taxation, the taxes being paid mostly by those whose income has in proportion to the valuation of their property been largely diminished in recent years?

Division of the Town.

A petition to the legislature similar to that which last year was abandoned without a hearing has been made, and if pushed by its advocates will probably receive attention at an early date.

We have, however, no cause for anxiety or to anticipate a different result from what has been obtained in former years.
SELECTMEN'S REPORT.

Board of Health.

Much praise should be awarded to the gentlemen who, giving their services gratuitously for the public benefit, in a cause which certainly, besides entailing much personal discomfort must have been the source of many unpleasant relations with their fellow citizens, have accomplished such commendable results. The thoroughness of their work and the general good sanitary condition of the town already attained, should make the labor of succeeding boards easier and ought to permit a reduction of the appropriation.

Claims.

The claim of Mary Reardon for damages incurred on the 2nd of February 1886, was settled without recourse to law, by the payment of $50.

Another claim has just been entered by James Cavanagh, for damages in consequence of a fall upon the sidewalk on Walnut street, on the 21st day of December, 1886, in which accident his leg was broken and he still remains under medical treatment. The accident is alleged to have been caused by an unusual icy condition of the sidewalk, which it is claimed by him, was owing to neglect or might with proper care have been remedied by graveling or otherwise.

We shall endeavor to give this matter proper investigation, and trust that it may, even if well founded, be settled without litigation.

Mr. Charles F. Bustin has presented a claim for damages to his estate on Franklin street, the undermining and removal of a portion of his land, occasioned by excavating for gravel on the adjoining lot, belonging to the town; undoubtedly proper care in digging or in the disposition of material which has been deposited there since, might have relieved the Selectmen from the annoyance of such a complaint. As it is based upon fact, however, it is advisable that in the spring of the coming year the injuries should be immediately repaired, which can be done without much expense.
Police.

In pursuance of last year's recommendation a regular officer was put on daily service in the Ætna Mills district, commencing on the 1st day of June last, since which time there have been five policemen regularly employed upon the force. The salaries of these officers are on a fair basis as compared with those of similar towns in this vicinity.

There seems to be no way of reducing expenses in this department except by restricting the employment of special service or by reduction in number of the regular force.

Possibly the employment of a mounted policeman might to a degree accomplish this object.

The conduct of the force is, as always, a credit to the town and there has seldom been a year when so few arrests have been made, and it seems to be universally admitted that good order and remarkable freedom from misdemeanor, crime and drunkenness has prevailed.

Fire Department.

The loss by fire in the town the last year has been unprecedently small, not exceeding $2,500 in the twelve months ending Jan. 1st, 1887.

It would seem no more than reasonable to expect that with the great additional protection afforded by the hydrant service now covering almost every house in town, there ought to be some scheme devised for reduction of expense in this department.

Water Supply.

Various extensions of the company's pipes have been made during the year, making the present number of hydrants 164, upon which payment is to be made in April. There will be three (3) more on Garfield street, and five (5) on Arlington street, upon lines already ordered. These and others that may be demanded next season will require an appropriation of $7,200.

The magnitude of this annual outlay, a burden constantly increasing — offset by no relief whatever in the shape of income,
ought to lead us to consider without delay, whether we should not seize the opportunity of effecting a lasting economy while it is yet in our power.

**Street Department.**

New streets, namely, Otis, Chester and Washburn streets, were accepted at the last Town Meeting. There are at present no applications for new streets.

The Cambridge Railroad Company have completed the removal of their track from the easterly side to the centre of Mount Auburn street, from Main street to the estate of Alvin Adams, occasioning considerable expense in the grading and repairing of the street which was anticipated at the Town meeting of last March. This work so long deferred has given great satisfaction to those living on that avenue and greatly improved the appearance of this, one of the principal entrances to our town.

The Company has recently petitioned for further sidings, which petitions, however, have not yet been acted upon.

As soon as the retaining wall on the northerly side of Arsenal street, shall have been completed, this street will be filled in and levelled preparatory for macadamizing. After which further labor upon it should be done by the Highway Department, from its appropriation.

**Bridges and Culverts.**

It will be seen by the report of the Surveyor of Highways that the appropriation for this department was exceeded, in consequence of the damage inflicted by the flood in the early part of the year, to the Galen street and other bridges, which was far more serious than was anticipated; two of the abutments being badly undermined. The repairs have been done apparently in a thorough manner.

The westerly abutment of the Arsenal street bridge was relaid in the year 1868, at an expense of $1,897. It is now unquestionably in a bad condition and needs repairs which can only be accomplished by complete rebuilding.
We do not recommend an appropriation at the March Meeting for that purpose for the following reason:

It is understood that while it is the design of the General Government to carry on the work of dredging the Charles river to the extent originally contemplated, that is, up to the head of tide water, it has been intimated that serious objection is made to the unsatisfactory arrangement of the draw in this bridge, and it is not improbable that its renovation may be demanded as indispensable to the further prosecution of this undertaking. At all events, it would be well that so important a matter should be carefully investigated and reported upon, and should it be deemed advisable to remodel the bridge as well as to repair its abutment, the whole could be done to the best advantage under one special grant. We therefore advise that this subject be referred to the next Board of Selectmen, to confer with the Government Engineers, and report as early as possible at an adjourned meeting.

Sidewalks.

Concrete walks have been laid in Garfield street, Russell avenue, Parker, Chestnut and Walnut streets, and crossings have been made on Main and Boyd streets, Riverside place, Franklin street and Main street from Green to Myrtle street.

Few petitions are entered at present for new concrete walks, and from what may be expected a smaller appropriation than last year will be sufficient.

The first concrete walk of this kind in the town was made in the year 1870; its popularity led to a considerable expenditure in that direction for a number of years following, in some years as high as $3,000. Some of the work then constructed has had little or no repairs, and we suggest that it would be wise to devote a large share of next year's appropriation to the repair of walks and crossings already laid.

Arsenal Street Widening.

It should be a matter of congratulation that a settlement of the Arsenal street controversy has been made by a decision of the
Supreme Court, in favor of the town. This was brought to your attention at the March meeting, when a special appropriation of $1,500 was made to be expended upon widening this street to the lines laid out by the commissioners and approved by the Court. As a result, we have been able to continue in a satisfactory manner, the widening where it was interrupted some years ago, and there is a prospect of its completion at an early date, to the Westerly limit of the estate of Royal Gilkey. When we entered upon this work we deemed it advisable, after much deliberation, to arrange in an amicable manner with Mr. Gilkey for the removal of his buildings, three in number, which encroached upon the street limits, rather than to enforce the rigor of the law, which would have necessitated cutting them off on line of the street. This would have been equivalent to the total ruin of at least one of them, and in consideration of the payment of $500 Mr. Gilkey agreed to move back the said buildings at his own expense, which has already been done.

The completion of the retaining wall already begun, was entrusted to Mr. George H. Sleeper, who has also contracted with the Fitchburg Railroad Company for the extension of this wall on line of its estate, which portion it is required to construct at its own expense. In order that this work may go on without interruption, we think it advisable that an appropriation, not exceeding $500 should be made for its continuance on the same side, Westerly.

Drinking Fountains.

Two drinking fountains have been placed in prominent places, supplying much needed wants of the public.

To the generosity of our esteemed fellow citizen and long tried public servant, Wm. H. Ingraham, Esq., we are indebted for the gift of the larger one, which stands in the public square near Riverside street. The smaller one, purchased by the town, stands at the junction of Mt. Auburn and Common streets, near the burial ground.
It should be on record that this year the town pump was consigned to the fate of many venerated though obsolete things of the past, and was removed from the public square on Main street.

**Street Lights.**

The contract for lighting with the Watertown and Newton Gas Light Company was continued at the same prices as the previous year.

There have been added twelve gas lamps and five oil lamps during the last year.

**Repairs of Buildings.**

Several of the public buildings need repairing, notably the Town Hall, and the Francis schoolhouse, on Mount Auburn street.

**Sewerage.**

Following the suggestions made in last year's report, we think the time has come to take preliminary action, and we advise the appointment of a committee empowered to look after the interests of the Town in this important matter.

**Estimates for ensuing Year.**

The estimates presented by us for the following year are based simply upon the apparent needs of the different departments, such reductions being made as seem to us not difficult to accomplish. Perhaps by the postponement of action upon appropriations on the day of election and the appointment of a committee on retrenchment to confer with the heads of departments, a definite and comprehensive plan might be devised for still further reductions.

Respectfully submitted,

CHARLES BRIGHAM, Selectmen of Watertown.
JAMES F. LYNCH.
CHARLES W. STONE.
## APPENDIX A.

### SUMMARY OF EXPENDITURES FOR THE YEARS 1867 TO 1886, INCLUSIVE.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SCHOOLS</th>
<th>ALMSHOUSE AND SUPPORT OF POOR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Appropriation and other receipts</td>
<td>Regular expenditure</td>
</tr>
<tr>
<td>1867-8</td>
<td>12,965.78</td>
<td>13,387.01</td>
</tr>
<tr>
<td>1868-9</td>
<td>15,000.76</td>
<td>13,683.48</td>
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<td>1869-70</td>
<td>14,176.42</td>
<td>14,161.38</td>
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<td>1870-1</td>
<td>15,101.49</td>
<td>16,199.59</td>
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<tr>
<td>1871-2</td>
<td>16,630.15</td>
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<td>1872-3</td>
<td>20,288.85</td>
<td>22,120.23</td>
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<td>1873-4</td>
<td>22,362.79</td>
<td>23,606.94</td>
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<td>1874-5</td>
<td>32,488.85</td>
<td>32,409.40</td>
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<td>1875-6</td>
<td>25,175.42</td>
<td>25,183.69</td>
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<td>1876-7</td>
<td>19,821.93</td>
<td>21,203.17</td>
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<td>1877-8</td>
<td>20,799.27</td>
<td>21,200.60</td>
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<td>1878-9</td>
<td>18,858.07</td>
<td>19,013.41</td>
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<td>1879-80</td>
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<td>1883-4</td>
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<td>1884-5</td>
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<td>20,344.07</td>
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<td>1885-6</td>
<td>23,103.51</td>
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<tr>
<td>1886-7</td>
<td>25,102.62</td>
<td>24,779.89</td>
</tr>
</tbody>
</table>

A. 3,132.52 alterations East Schoolhouse. 1,651.58 heating &c., High Schoolhouse.
B. Alterations &c., Centre Grammar Schoolhouse.
C. 8,688.5 building Etna Mill's Schoolhouse. 3,771.28 additions South District Schoolhouse.
D. 701.58 balance Etna Mills Schoolhouse. 26,154.22 building High Schoolhouse. 3,984.00 Addition West Schoolhouse.
E. Balance High Schoolhouse.
F. Balance High Schoolhouse.
G. 1,506.58 Heating West Schoolhouse. 1,268.72 annex High Schoolhouse.
H. 1,471.59 Grant Schoolhouse.
I. 11,013.32 Grant Schoolhouse. 321.46 introduction of water into school buildings.
J. Approximate.
### APPENDIX B.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>HIGHWAYS AND DRAINAGE</th>
<th>FIRE DEPARTMENT</th>
<th>POLICE DEPT.</th>
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<tbody>
<tr>
<td></td>
<td>Apropiation and receipts</td>
<td>Regular expenditures</td>
<td>Special expenditures</td>
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<tr>
<td>1867-8</td>
<td>3,730.04</td>
<td>3,749.85</td>
<td><strong>A 3,102.50</strong> approximate</td>
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<td>1868-9</td>
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<td>13,255.33</td>
<td>13,249.95</td>
<td>3,662.40</td>
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<td>1872-3</td>
<td>11,500.15</td>
<td>12,200.12</td>
<td>3,662.40</td>
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<td>1873-4</td>
<td>12,846.34</td>
<td>12,244.42</td>
<td><strong>R 3,587.80</strong></td>
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<td>1874-5</td>
<td>14,270.25</td>
<td>12,962.31</td>
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<td>1875-6</td>
<td>13,929.28</td>
<td>12,490.97</td>
<td>8,773.77</td>
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<td>1876-7</td>
<td>9,244.95</td>
<td>9,351.82</td>
<td>6,023.67</td>
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<td>1877-8</td>
<td>8,065.25</td>
<td>8,025.39</td>
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<td>1878-9</td>
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<td>6,602.85</td>
<td>4,927.30</td>
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<td>1879-80</td>
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<td>11,106.25</td>
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<td>14,042.86</td>
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<td>11,861.50</td>
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<td>1886-7</td>
<td>15,368.93</td>
<td>17,651.47</td>
<td>5,085.28</td>
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</tbody>
</table>

**A.** Crusher and Engine.  
**B.** Reservoirs.  
**C.** 3,140.00 Coolidge avenue. 857.44 engine for crusher. 3,498.80 drainage and surveys.  
**D.** Drainage and crusher.  
**E.** Drainage and crusher.  
**F.** Report on drainage.  
**G.** Steamer, horses and hose.  
**H.** Hose.  
**I.** Hose and carriage.  
**J.** Hose and fire alarm telegraph.  
**K.** Hose and fire alarm boxes.
The Watertown Board of Health herewith respectfully submits its First Annual Report:

In addition to the regular duties pertaining to the subject of health, the Board has devoted considerable time and attention to the work incident to the formation of a new department. It is a good omen that the care of the public health is intrusted to a Board whose time and attention is not divided by other official duties; it shows that the importance of preventive medicine is beginning to be recognized by thoughtful people, and it bespeaks for its future the success to which its far-reaching importance to the welfare of mankind entitles it. The idea of preventive medicine has not yet fully taken possession of the popular mind, because the people through ignorance of, and lack of attention to this subject, are unaware of the benefits that it has in store for them. You may assert, with the emphasis that comes from conviction, that the coming generation brought up with due regard to the laws of hygiene will be healthier and more capable than its predecessor, and you may be believed; but ocular demonstration is wanting, and the impression made is fleeting. The lapse of time between cause and effect is so great that the average person misses the sequence.

The Board of Health may be said to have survived its infancy, and to have entered safely into the period of adolescence which, while not requiring the continual care of dependent infancy, needs a careful and competent supervision to assure its growth to strong, self-reliant and useful manhood.

The Board has been governed in its work by a full appreciation of the responsibility conferred upon it by the large and comprehensive power which the Legislature intrusted to it, and it has
adopted in its rules and regulations only those principles that have been approved by time and general acceptance.

At the first meeting of the Board, George S. Parker was elected clerk. The Board, with only three hundred and fifty dollars with which to defray all the expenses of the year, could pay him only a nominal salary that was altogether disproportionate to the work required. After serving three months to the entire satisfaction of the Board, Mr. Parker resigned. Mr. William P. Harris, at the solicitation of the Board, consented to serve as clerk. He has discharged the onerous duties of that position with marked faithfulness and efficiency, and has merited the grateful appreciation of the Board.

The Board has licensed the following persons to act as undertakers during the year: Alexander Gregg, George Gregg, P. J. Kelly, John Flood.

Five regulations have been added to those adopted by the Selectmen in 1885. They are Regulations 23 to 27. It is thought that the reasons for adopting these regulations will be self-evident to anyone reading them, and, therefore, further explanation is deemed unnecessary.

**Inspection.**

With the exception of a few houses on the outskirts, each house in town has been inspected. In order that the inspection might be uniform, an inspection blank (a copy of which is incorporated in this Report,) was prepared. These blanks were filled out by the inspector, and preserved by the Board for reference. It is possible by referring to the files to see the condition of each house at the time of inspection, and the action taken by the Board in each case. A partial idea of the work done may be obtained by a hurried survey of the disclosures made by this inspection:

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
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<tbody>
<tr>
<td>Sinks untrapped</td>
<td>555</td>
</tr>
<tr>
<td>Vaults needing cleaning</td>
<td>221</td>
</tr>
<tr>
<td>Cesspools needing cleaning</td>
<td>88</td>
</tr>
<tr>
<td>New Cesspools required</td>
<td>52</td>
</tr>
</tbody>
</table>
New Vaults required
Cesspools needing repairing,
Refrigerator wastes (unsafe),
Waste pipes, leaks in,
Cellars foul,
Drain pipes, leaks in,
Plumbing defective,

Not included in this list are many unsanitary conditions classified under different heads. As a result of the inspection and the complaints made to the Board, nearly fifteen hundred copies of Blank 1 have been sent. In forty instances it was necessary to have the constable serve Blank 2.

BOARD OF HEALTH.

INSPECTION BLANK.

Watertown, Mass.,

HOUSE.
Location?
Owner and address?
Occupant?

PRIVY.
Where located?
Is vault water-tight?
Of what material is vault built?
How ventilated?
Condition?
Distance from well?

CESSPOOLS.
Location, distance from house, etc.?
Are they water-tight?
Condition?
Distance from well?
CELLAR.
- Is there any leak in the waste-pipe?
- Is there any decaying vegetable matter?
- General condition?

TRAP.
- Is the waste-pipe from the sink trapped?
- Location and kind of trap?

REFRIGERATOR WASTES.
- Where do they run?

DRAIN.
- Material?
- Above or below cellar bottom?

COST OF EMPTYING CESSPOOL AND VAULT.
- There is also

Inspector.

[1]
OFFICE OF THE
BOARD OF HEALTH.

WATER TOWN, MASS., 188

Dear Sir:

You are hereby notified that your premises on
Street, by reason of
are not in a sanitary condition.

We trust that you will remove the cause of complaint at once.

Respectfully,

Secretary.
Office of the Board of Health.

Watertown, Mass., 188

There is a nuisance on your premises on

consisting of

which, in the opinion of this Board, has become offensive to the neighborhood and injurious to the public health. You are hereby ordered, at your own expense, to remove said nuisance within hours from the service hereof; otherwise according to law.

By order of the Board of Health,

Secretary.

To

Middlesex, ss. Watertown, 188

I this day served the above notice by

Constable.
OFFICE OF THE
BOARD OF HEALTH.

WATERTOWN, MASS., 188

SIR:

The Board of Health, being satisfied, upon due examination, that premises occupied by you as a dwelling-place, have become, by reason of unfit for such purpose, and a cause of nuisance and sickness to the occupants and the public, hereby issues its notice to you requiring you to quit said premises within days from the date of service of this notice.

By order of the Board of Health,

Secretary.

To

MIDDLESEX, ss. WATERTOWN, 188

I this day served the above notice by

Constable.
REPORT OF BOARD OF HEALTH.

OFFICE OF THE
BOARD OF HEALTH.

WATERTOWN, MASS., 188

Whereas,

occupying premises on street,

now or formerly owned by

had failed to comply with the notice of this Board served on last, ordering to quit said premises within days, it is therefore hereby ordered that police officer cause said premises to be vacated forthwith.

By order of the Board of Health,

Secretary.

To

OFFICE OF THE
BOARD OF HEALTH.

WATERTOWN, MASS., 188

DEAR SIR:

We have caused your premises on to be vacated; and you are ordered not to permit them to be occupied again without permission from this Board.

By order of the Board of Health,

Secretary.

To
A reference to the foregoing figures shows that over five hundred families were without the protection that a trap in the waste-pipe affords. The foul air, loaded with highly diffusible and poisonous gases, could enter the kitchen, whence it insidiously made its way to other rooms. The ignorance on this subject is deplorable. Inattention to the sanitary condition of the house is followed by sickness, death and sorrow.

**Swine.**

The regulation prohibiting the keeping of swine without a license has been enforced during the past year. It is the opinion of the Board that swine cannot be kept out of doors in the thickly settled part of the town without causing offensive odors that are detrimental to the health, and that interfere seriously with the comfort of the people living in the neighborhood. All applications, therefore, for a license to keep swine in pens in the open air have been unfavorably considered. The objection, however, that exists against swine in the open air does not hold in the case of swine kept under a stable for the purpose of improving the manure. All such applications have been favorably considered, and licenses with proper restrictions have been granted.

Mr. Hartford's piggery has been a cause of complaint for several years, and several unsuccessful efforts have been made to abate the nuisance. After mature deliberation and a most careful examination of the law by the lawyer of the Board, it was decided to take legal action to remove this nuisance. After a preliminary skirmish in the lower court, an amicable settlement was reached that resulted in Mr. Hartford signing a bond to the effect that he would not keep more than three pigs on his premises on Market Street, and that these three should be kept subject to the conditions of a license issued by the Board.

**Collection of Swill.**

The collection of the swill by the town team has been tried as an experiment during the year. At the beginning of the year the
Board allowed certain individuals to collect swill within certain defined limits, but owing to continual complaints, this privilege was revoked in nearly every case. In contrast to this, the Board has not received a single complaint against the town team. The latter has the advantage of being a system independent of the individual, while the former is subject to the uncertainty of capricious boyhood. The Board recommends that the town team collect the swill during the ensuing year, and that a sufficient appropriation be made for this purpose.

**Mortality Report.**

Attention is called to the large reduction in the death-rate for 1886. In 1885, the rate per thousand was 22.2; in 1886, 15.3. This is a reduction of over 30 per cent. The death-rate for the present year is 3 per thousand less than that of the State, as published by the State Board of Health. These figures justify the assertion that Watertown is a healthy town.

Below, the number of deaths and the death-rate for each year since 1880 is given. The percentage is based on the census of 1880 and 1885. Two hundred is added to the population each year with the exception of 1882 and 1883, which are given an increase of 100, so that the supposed increase may not exceed the actual increase as shown by the census of 1885.

<table>
<thead>
<tr>
<th>Year</th>
<th>Deaths</th>
<th>Deaths per 1000 Inhabitants</th>
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</thead>
<tbody>
<tr>
<td>1880</td>
<td>188</td>
<td>21.7</td>
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<tr>
<td>1881</td>
<td>95</td>
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<tr>
<td>1882</td>
<td>102</td>
<td>18.1</td>
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<td>1883</td>
<td>102</td>
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<td>108</td>
<td>17.9</td>
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<tr>
<td>1885</td>
<td>139</td>
<td>22.2</td>
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<tr>
<td>1886</td>
<td>100</td>
<td>15.3</td>
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</tbody>
</table>

Average number of deaths per thousand for 7 yrs., 18.6.
Diagram represents the yearly death-rate since 1880. Figures at the left represent the number per thousand. Heavy black line shows the average death-rate during the seven years.

Diagram shows the monthly fluctuation in the death-rate for 1886. The black line represents the monthly (8) average. The figures on the left, the actual number of deaths. By referring to the diagram, June is seen to record the smallest number of deaths and October the largest.
Diagram shows the monthly prevalence of diphtheria. The figures on the left represent the number of cases reported. The black line shows the average prevalence.

Thirty-six children under five years, and eighteen persons over seventy have died during the year. This is a large per cent. of children, but six of these thirty-six belonged to the Home at East Watertown, and should not be reckoned in our Report.

In compliance with the provisions in Chap. 80, Sect. 79 of the Public Statutes, the Board has been notified of the existence of diphtheria, 31 cases; scarlet fever, 11 cases; cholera infantum, 1 case; typhoid fever, 4 cases.

Of these thirty-one cases of diphtheria, twenty-five occurred during the first five months of the year; seven cases occurred in one family; four cases in another; and five cases in the district known as the Sand Banks.

The eleven cases of scarletina were scattered throughout the year. No month had more than two cases; during the months of January, June, July, August and October, no cases were reported. At no time has there been anything resembling an epidemic.
## Mortality Table by Months, for the Year 1886

<table>
<thead>
<tr>
<th>CLASS OF DISEASES</th>
<th>J</th>
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<th>M</th>
<th>A</th>
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<td>6</td>
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<td>100</td>
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</tbody>
</table>
The Board immediately notifies the School Committee, and the Trustees of the Public Library of all cases of contagious disease that come to their notice. Action is taken by both Boards to confine, as far as lies in their power, the disease within its original limits.

The Board received frequent complaints of a very offensive odor that originated in Mr. Jennison's soap factory on the South side of the river, in Newton. As this factory is located outside the jurisdiction of your Board, recourse was had to Newton. After waiting two months for Newton to prove her disinclination or inability to take any effectual action, the Board called on the State Board. Dr. Abbott and several of the members of that Board personally inspected the premises. The State Board granted a hearing, which was well attended by the inhabitants of Watertown, who had suffered unbearable annoyance and discomfort. The State Board took the question under consideration, and a month later decided to allow Mr. Jennison the opportunity to show that his business can be conducted under certain conditions and with improved methods without becoming a nuisance. Cold weather came before this experiment could be thoroughly tested.

The Board has received several complaints of an offensive odor from the Charles River. There is no doubt that the river when low is very offensive and unwholesome to the people doing business over it. It becomes, during the warm, dry months, an intolerable nuisance. During the months when the river is full, the sewage is diluted and purified. The majority of the Board are of the opinion that an abatement of this nuisance involves a change in the depositing of the sewage of the Charles River basin; further, that it necessitates an interference with large industries on the banks of the Charles River that would cause expensive and lengthy litigation. A solution of this question is clearly beyond the province of a local board, and belongs to the State Board, to which it was referred by your Board. It is recommended that this matter be laid before the State Board early in the season.

The Board feel that a great deal has been accomplished in
removing existing nuisances, and in preventing illness and disease. It hopes that it has been the means of calling attention to the laws of hygiene, and of emphasizing the necessity of observing certain well-recognized precautions that have been learned at the price of much suffering and sorrow.

The laws of Nature are immutable; she will not accept the plea of ignorance as a justification for the violation of one of her laws, but ruthlessly demands that exact payment be made, even if it cause the happiness or life of the offender.

**Expenses.**

Board of Health Appropriation, $350 00
Amount expended, 300 00
Balance, $50 00
Cost of material for collecting swill, $100 52
Labor collecting (10 months), 499 25

Received for swill,

<p>| | |</p>
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<tr>
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<tbody>
<tr>
<td></td>
<td>$599 77</td>
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<tr>
<td></td>
<td>93 87</td>
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</table>

Actual cost for collecting swill, $505 90

**Classified Expenses of the Board of Health.**

**INSPECTING.**

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<tr>
<th>Name</th>
<th>Amount</th>
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<td>G. B. Williston</td>
<td>$118 05</td>
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<tr>
<td>G. S. Parker</td>
<td>2 70</td>
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<td>W. P. Harris</td>
<td>4 80</td>
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$125 55

**STATIONERY, PRINTING, POSTALS.**

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<th>Name</th>
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<tr>
<td>F. G. Barker</td>
<td>$42 50</td>
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<tr>
<td>McLaughlin &amp; Co.</td>
<td>8 93</td>
</tr>
<tr>
<td>S. S. Gleason</td>
<td>19 60</td>
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</table>

$71 03
REPORT OF BOARD OF HEALTH.

MISCELLANEOUS.

W. S. Learnard, $8 00
T. Gavin, 8 75
Postage, 1 00
G. S. Parker, 6 00
W. P. Harris, clerk, 79 67

Amount expended by Board of Health, $300 00

The Board recommend that the following appropriation be made for 1887:—

Appropriation for 1887.
Board of Health, $400 00
Collection of swill, 500 00

JULIAN A. MEAD, J. J. SULLIVAN, Board of
D. FLANDERS, Health.
REGULATIONS OF THE BOARD OF HEALTH.

[Extract from Public Statutes, Chap. 80, Sect. 18.]

"The board of health of a town shall make such regulations as it judges necessary for the public health respecting nuisances, sources of filth and causes of sickness within its town.

Whoever violates any such regulation shall forfeit a sum not exceeding one hundred dollars."

\textbf{Offal.}

\textbf{Reg. 1.} No person shall convey, or cause to be conveyed through any street in this town, any night-soil, slaughter-house offal or blood, except in a vehicle effectually covered and water-tight.

\textbf{Reg. 2.} No person shall throw into, or leave in or upon, any street, court, lane, public square or enclosure, or any vacant or occupied lot owned by the town or the public, or into any pond, canal, creek or stream of water within the limits of the town, any dead animal or vegetable matter, or waste water, rubbish or filth of any kind, nor shall any person throw into or leave in or upon any flats or tide-water within the jurisdiction of this town, any dead animal or other foul or offensive matter.

\textbf{Reg. 3.} No person shall collect swill or house offal in any street without a license from the Board of Health, and no person acting under such license shall allow any vehicle used for collecting or conveying such material, to be drawn over or to stand upon any sidewalk.

\textbf{Drains and Brooks.}

\textbf{Reg. 4.} No sink or waste water shall be turned into or thrown upon the streets or gutters, or sidewalks of the town.

All brooks, open drains and sluiceways shall be kept free from such obstructions as in the opinion of the Board may endanger the
public health, and upon notice from the Board of Health, the
owner or occupant shall remove such obstruction within the time
allowed by said Board.
Reg. 5. No person shall suffer any waste or stagnant water to
remain in any cellar or on any lot of land, or vacant ground owned
or occupied by him, so as to become a nuisance, or offensive, or
dangerous to the public health.

**Cesspools and Privy Vaults.**

Reg. 6. The vaults of every privy shall be below the surface
of the ground. Every privy vault hereafter constructed shall be
built of brick and cement, and shall be situated at least two feet
distant from the line of any adjoining lot, and the same distance
from every street, lane, alley, court, square or public place, or
public or private passage-way, and shall be so constructed as to
be conveniently approached, opened and cleansed.

Reg. 7. Every privy vault constructed shall be made tight so
that the contents thereof cannot escape therefrom.

Reg. 8. All pipes connecting a water closet with a soil pipe
shall be trapped, each separately and close to the connection with
each water closet. All waste pipes shall be trapped, each sepa-
rately, and close to the connection with each bath, sink, bowl or
other fixture.

Reg. 9. Cesspools and privy vaults shall be emptied and
cleansed at least once each year, and at such other times as may
be necessary to prevent them from becoming offensive, or whenever
the Board of Health may require. If the occupant neglect to
empty and cleanse any vault or cesspool within forty-eight hours
after notice so to do, the Board of Health will have the same em-
tied and cleansed at the expense of the owner or occupant of the
estate.

Reg. 10. No cesspool or privy vault shall be opened or cleaned
out between sunrise and 9 o'clock, p. m., at any time between the
first day of May and the first day of December, without a special
permit in writing by the Board, nor the contents thereof moved
through any street between sunrise and 9 o'clock, p. m.
REGULATIONS OF BOARD OF HEALTH.

Diseased Animals, Sale of Food, Etc.

REG. 11. No animal affected with an infectious or contagious disease shall be brought within the limits of the town.

REG. 12. No diseased animal or its flesh, shall be sold or offered for sale, and no decayed or diseased, or unwholesome meat, fish, vegetable or fruit, or other article of food, shall be sold or offered for sale, and the Board of Health may cause the seizure and destruction of all such diseased or unwholesome animal, fish, fruit or vegetable matter, so sold or offered for sale.

Swine.

REG. 13. No swine shall be kept in any part of this town which is within one mile of the Town House, corner of Main and Church Streets, without a license from the Board of Health, and then only in such place and manner as said Board shall prescribe.

REG. 14. No person keeping swine shall so keep or locate them as to cause a nuisance or create offensive odors which annoy or injure his neighbors or the public.

Slaughter Houses.

REG. 15. No new slaughter houses shall be established within the limits of this town. Those already established must be kept free from all offensive smells, and all offal must be removed or disposed of daily.

REG. 16. No melting or rendering house shall be established or used as such within the limits of the town, except by special permission of the Board, and with such restrictions and regulations as they may judge best.

REG. 17. No manufacturing or other business giving rise to noisome or injurious odors shall be established or continued within town limits, except in such locations and under such regulations as this Board shall assign.

REG. 18. No fish, slaughter house offal, pigs' feet, or other decaying animal matter shall be left upon land for purposes of fertilization without being ploughed in, or otherwise made offensive.
Vaccination.

Reg. 19. All children must be vaccinated before attending public schools in this town.

Restriction of Disease.

Reg. 20. Any householder in whose dwelling there shall break out a case of cholera, yellow fever, small pox, scarlet fever, diphtheria, or any other disease dangerous to the public health, shall immediately notify the Board of Health of the same, and until instructions are received from the Board shall not permit any clothing or other property that may have been exposed to infection, to be removed from the house, and upon the death, recovery or removal of such person, the rooms occupied and the articles used by him shall be disinfected by such householder in a manner approved by the Board of Health.

[Extract from Acts of 1885. Chapter 198.]

The school committee shall not allow any pupil to attend the public schools while any member of the household to which such pupil belongs is sick of small pox, diphtheria, or scarlet fever, or during a period of two weeks after the death, recovery or removal of such a person; and any pupil coming from such household shall be required to present to the teacher of the school the pupil desires to attend, a certificate from the attending physician or Board of Health, of the facts necessary to entitle him to admission in accordance with the above regulation.

Reg. 21. No person shall inter or cause to be interred, any dead body in a grave where the top of the coffin is less than three feet from the surface of the ground surrounding the grave.

Reg. 22. No body shall be disinterred between the first of June and the first of October, without permission from the Board of Health.

Reg. 23. A flag shall be displayed on every house in which there is a case of small pox, diphtheria, scarlet fever, or other disease which in the opinion of the Board may endanger the public health. No person shall remove or in any way meddle with said flag without permission of the Board of Health.
REGULATIONS OF BOARD OF HEALTH.

Reg. 24. No person shall open or clean out a privy vault or cesspool within a mile of the Town Hall without a special permit in writing from the Board. No person shall convey or cause to be conveyed through any street, court, lane, or public square, any nightsoil, slaughter house offal, or blood, without a written license from the Board.

Reg. 25. The body of a person who has died of diphtheria, scarlet fever, small pox, or any other disease that in the opinion of the Board may endanger the public health, shall not be conveyed through the streets in any upholstered vehicle.

Reg. 26. The body of any person dying of cholera, small pox, varioloid, diphtheria, or scarlet fever, if placed in a receiving-tomb, shall be inclosed in a metallic coffin hermetically sealed.

Reg. 27. No person, except the immediate members of the family and the persons necessarily concerned in the burial, shall enter a house where there is lying the body of a person who has died of diphtheria, scarlet fever, or small pox.

The Board most earnestly request the cooperation of all citizens in securing the desirable sanitary condition, to promote which, the foregoing regulations are issued.

All citizens are requested to notify the Board of any existing nuisance or cause of injury to health.

The Police of this town are hereby directed to cause the foregoing regulations to be strictly enforced, and to report any violation thereof.

JULIAN A. MEAD, J. J. SULLIVAN, D. FLANDERS, Board of Health.
REPORT OF THE TOWN IMPROVEMENT SOCIETY.

To the Honorable Board of Selectmen of the Town of Watertown:

Gentlemen,—The following exhibit shows the receipts and expenditures of the Improvement Society, to whose charge you intrusted the planting of trees under the appropriation made at the last annual Town Meeting:—

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr.</td>
<td>$134.50</td>
</tr>
<tr>
<td>To balance Jan. 31, 1886</td>
<td></td>
</tr>
<tr>
<td>Appropriation</td>
<td>300.00</td>
</tr>
<tr>
<td>Amount received from abutters</td>
<td>185.74</td>
</tr>
<tr>
<td>&quot; uncollected</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>$622.89</td>
</tr>
<tr>
<td>Cr.</td>
<td></td>
</tr>
<tr>
<td>By cash paid for 116 trees</td>
<td>$116.00</td>
</tr>
<tr>
<td>&quot; &quot; &quot; 96 protectors</td>
<td>115.20</td>
</tr>
<tr>
<td>&quot; &quot; &quot; Highway Department, for labor</td>
<td>115.00</td>
</tr>
<tr>
<td>By cash paid for loam</td>
<td>59.70</td>
</tr>
<tr>
<td>&quot; &quot; &quot; sundries</td>
<td>17.54</td>
</tr>
<tr>
<td>balance Bills Rec.</td>
<td>$9.50</td>
</tr>
<tr>
<td>Cash</td>
<td>189.95</td>
</tr>
<tr>
<td></td>
<td>199.45</td>
</tr>
<tr>
<td></td>
<td>$622.89</td>
</tr>
</tbody>
</table>

The number of trees planted this year was 119. This number is smaller than in previous years, owing largely to the neglect of persons ordering in season for the successful removal of the trees from the nursery. The trees furnished this year were of a high standard of excellence in regard both to size and quality, they
having been selected by the committee, from the nursery of Mr. Strong, at Newton Highlands. The cost per tree was $3.41. The price to abutters was $1.75 each, the same as last year. If, in the coming year the same price is retained, it would seem as if everyone who desires a beautiful shade tree in front of his place should avail himself of the very liberal offer of the Society.

The Society would recommend an appropriation of $150 for the work of the coming season.

Very respectfully submitted.

ARTHUR M. KNAPP, President.
REPORT OF PARK IMPROVEMENT COMMITTEE.

The Committee appointed to lay out and superintend the improvement of the Public Park, beg leave to report as follows:

The original amount of the Park Fund was $2,196 00
Less amount paid in 1885:—
Thos. Gavin, for grading around schoolhouse and filling Titcomb cellar, $680 63
Superintendent of Streets, filling cellar and grading, 189 07 869 70
Balance in 1886, $1,326 30
Add amount received for stone posts sold, $16 00
One load filling sold, 30 16 30
Making available for improvements, $1,342 60

Statement of Expenditures.

GRADING.

Paid Thos. Gavin, work of men and teams, $211 60
Paid John O’Brien, men and teams, 177 00
“ P. Condon, “ “ 27 00
“ Hugh Hart, labor, 75 38
“ M. Gleason, “ “ 50 10
“ P. Ryan, “ “ 61 10
“ J. O’Meara “ 45 50
“ P. Gallagher, “ “ 33 00

$680 68
38 REPORT OF PARK IMPROVEMENT COMMITTEE.

FENCE.

Paid Chelmsford Iron Co.,
iron fence and putting up, $482.33
Paid A. L. Thompson, setting stone posts, 105.95
Paid freight on iron work, 16.52

$604.80

OLD FENCE.

Paid M. Whiting, putting up same, $13.19

WALKS.

Paid J. O'Brien for gravel and spreading, $5.00

SEEDING.

Paid J. Breck & Sons' bill grass seed, $24.70

$1,328.37

Unexpended balance, $14.23

In the light of their experience of the past year, it may be proper for the Committee to offer a suggestion as to future operations in the same direction. While they are fully alive to the importance of establishing a lower rate of taxation, and of keeping down all expenditures to the lowest practicable limits, they are clearly of opinion that a moderate annual appropriation to continue the work of improving the Park will be for the best interest of the town.

They would recommend that the grading be continued at the lower end of the Park towards the railroad, sufficiently to prevent any standing water above the road or street originally laid out and partly worked running parallel with the railroad. Also, that one or more walks be laid out where most needed by the public — that shade trees be set out along the paths and elsewhere, and that substantial seats be put up in suitable places.
REPORT OF PARK IMPROVEMENT COMMITTEE. 39

It is hardly necessary to add that proper provision should be made for cutting the grass and keeping the grounds clear from sticks and stones and other unsightly objects which are apt to accumulate in public places which are not properly cared for.

WM. CUSHING.
CHAS. B. GARDNER,

Committee.

WATERTOWN, Feb. 1, 1887.
REPORT OF TOWN CLERK AND REGISTRAR.

**BIRTHS.**

The number of births registered during the year 1886, was one hundred and thirteen (113), being twenty-two (22) less than in 1885.

Of the full number registered, fifty-one (51) were males, and sixty-two (62) were females.

One hundred and ten were born in Watertown, 110
Two were born in Newton, 2
One was born at Tewksbury (illegitimate), 1

Total, 113

Of the foregoing, there was one pair of twins, both females, and one colored male.

Born of American parents, 39
" Irish parents, 28
" American and foreign parents, 25
" British Province parents, 6
" German parents, 2
" English parents, 2
" Italian parents, 1
" Canadian parents, 2
" West India parents, 1
" Swedish parents, 1
" Irish and English parents, 1
" Irish and British Province parents, 2
" Danish parents, 1
" Nova Scotia and unknown parents, 2

Total, 113
MARRIAGES.

The whole number of marriages recorded for the year was forty-six (46), being three less than in 1885.

- First marriage of both parties: 40
- Second marriage of both parties: 1
- First and second marriage of both parties: 3
- First and third marriage of both parties: 1
- Second and third marriage of both parties: 1

Total: 46

Number of both parties native born: 23
- " " " foreign born: 14
- " " " native and foreign born: 9

Total: 46

Occupation of Grooms.

Teamster, 4; Tailor, 1; Clerk, 3; Milk Dealer, 1; Station Agent, 1; Laborer, 6; Paper Mill Operative, 2; Carpenter, 1; Machinist, 1; Clergyman, 1; Wool Business, 1; Grocer, 1; Stove Mounter, 1; Rubber Manufacturer, 1; Hat Manufacturer, 1; Mill Operative, 1; Mechanic, 1; Publisher, 1; Glove Dyer, 1; Gardener, 1; Printer, 1; Manufacturer, 1; Blacksmith, 1; Jeweller, 1; Plumber, 1; Ice Deliverer, 1; Farmer, 1; Triper, 1; Schoolteacher, 1; Coachman, 1; Railroad Hand, 1; Sash and Doormaker, 1; Boat Manufacturer, 1; Starchmaker, 1; Painter, 1. Total, 46.

DEATHS.

The whole number of deaths registered for the year was one hundred (100), being thirty-nine less than in 1885. Of this number, forty-seven (47) were males, and fifty-three (53) females.

Condition.

Married, 16
Single, 63
Widowed, 21

Total, 100
Name, Age and Condition of Persons Deceased, aged Seventy Years and Upward.

<table>
<thead>
<tr>
<th>Name</th>
<th>Yrs.</th>
<th>Mos.</th>
<th>Days</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deborah Bright</td>
<td>74</td>
<td></td>
<td></td>
<td>Widow</td>
</tr>
<tr>
<td>Mary Powers</td>
<td>79</td>
<td></td>
<td></td>
<td>Widow</td>
</tr>
<tr>
<td>John Hogan</td>
<td>73</td>
<td></td>
<td></td>
<td>Married</td>
</tr>
<tr>
<td>Zachariah Boodey</td>
<td>72</td>
<td>10</td>
<td>8</td>
<td>Married</td>
</tr>
<tr>
<td>Harriet Macurdy</td>
<td>87</td>
<td>9</td>
<td>15</td>
<td>Widow</td>
</tr>
<tr>
<td>Mary S. Coolidge</td>
<td>85</td>
<td>5</td>
<td>14</td>
<td>Widow</td>
</tr>
<tr>
<td>J. Edward Scott</td>
<td>74</td>
<td></td>
<td></td>
<td>Married</td>
</tr>
<tr>
<td>Mary Gregg</td>
<td>70</td>
<td></td>
<td></td>
<td>Widow</td>
</tr>
<tr>
<td>John Lenox</td>
<td>92</td>
<td>2</td>
<td>19</td>
<td>Widowed</td>
</tr>
<tr>
<td>Samuel Chickering</td>
<td>93</td>
<td>11</td>
<td>8</td>
<td>Widowed</td>
</tr>
<tr>
<td>Agnes Hancock</td>
<td>75</td>
<td>7</td>
<td></td>
<td>Widow</td>
</tr>
<tr>
<td>George W. Russell</td>
<td>84</td>
<td>7</td>
<td></td>
<td>Widowed</td>
</tr>
<tr>
<td>Mary Mansfield</td>
<td>71</td>
<td>5</td>
<td></td>
<td>Widow</td>
</tr>
<tr>
<td>John Millmore</td>
<td>95</td>
<td></td>
<td></td>
<td>Widowed</td>
</tr>
<tr>
<td>Matthew Cooney</td>
<td>72</td>
<td></td>
<td></td>
<td>Married</td>
</tr>
<tr>
<td>Mary W. Brown</td>
<td>84</td>
<td>6</td>
<td>17</td>
<td>Married</td>
</tr>
<tr>
<td>Louise Graves</td>
<td>82</td>
<td></td>
<td></td>
<td>Single</td>
</tr>
</tbody>
</table>

Whole number, 17.

Number of persons deceased under five years, is 35
Between the age of 5 and 10 years,
- the age of 10 and 20 “ 3
- the age of 20 and 30 “ 11
- the age of 30 and 40 “ 1
- the age of 40 and 50 “ 5
- the age of 50 and 60 “ 7
- the age of 60 and 70 “ 5

Number aged 70 and over, as per names, 17

Total 100
REPORT OF TOWN CLERK.

The number of deaths of native-born persons is 79
" " " foreign-born " " 21
Total, 100
For Causes of Death, see full particulars in report of Board of Health.

DOGS.

The whole number of dogs licensed during the year, was 269.

Amount Received for Licensing.

252 male dogs at $2.00 each, $504.00
17 female " at $5.00 " 85.00
Total, $589.00
Deduct fees for licenses, 20 cents each, 53.80
$535.20

By the Acts of 1886, Town Clerks are required to make their returns twice each year,—in the months of June and November. Receipts for payment of the above sum annexed hereto.

EAST CAMBRIDGE, MASS., June 17, 1886.
Received of William H. Ingraham, Town Clerk of Watertown, Mass., Two Hundred and Forty-Six 60-100 Dollars, on account of Dog Licenses, as per his return of June 6, 1886.
$246.60. J. O. HAYDEN, County Treasurer.

EAST CAMBRIDGE, MASS., Nov. 22, 1886.
Received of William H. Ingraham, Town Clerk of Watertown, Mass., Two Hundred and Eighty-Eight 60-100 Dollars, on account of Dog Licenses, as per his return of Nov. 17, 1886.
$288.60. J. O. HAYDEN, County Treasurer.
Library now in Selectmen’s Room.

Laws of the United States,
General Statutes of Mass., 1836 to 1872,
with Supplement, 2d ed.,
Acts and Resolves of Mass., 1841–1885,
Public Statutes of Mass., 1882,
Herrick’s Town Officer,
Mass. Special Laws, from the adoption of the Constitution to A. D. 1881,
Manual Gen’l Court, 1884 and 1885,
Acts and Resolves of the Province of Massachusetts Bay, 1692–1768–1780,
Mass. Digest, by Bennett & Heard,
Mass. Term Reports, from 1804,
* Pickering’s Term Reports, vols. 1 to 24 inclusive,
Metcalf’s 1 to 13
Cushing’s 1 to 12
Gray’s 1 to 16
Allen’s 1 to 14
† Mass. Reports by A. G. Brown, Jr., Nos. 97 to 141 inclusive,
Public Documents of Mass., from 1858 to 1885, inclusive,
Mass. Register and Military Record, 1862,
Record of Mass. Vols., 1861–65, by the Adjutant-General,
Industry of Massachusetts, 1855,
Census of Mass., 1860, 1865 and 1875,
Journal of Valuation Committee, 1860,
Plymouth Colony Laws, ed. by Wm. Brigham,

* No. 10 Pickering’s Term Reports missing.
46 REPORT OF TOWN CLERK.

Reports of State Board of Health, 1871 to 1879, 9 vols. 8vo.
Manual of Board of Health, 1 vol. 8vo.
Reports of Board of State Charities, 1868, 1869, 1871, 1872, 1873, 5 vols. 8vo.
Notes on Gen'l Statutes, by U. H. and George G. Crocker, 2d edition, 1 vol. 8vo.
Reports of the State Board of Education, 1871-1884, inclusive, 8 vols. 8vo.
Watertown Town Reports, from 1860 to 1886, 26 vols. 8vo.
Perpetual Laws of the Commonwealth of Massachusetts, from 1780 to 1816, 6 vols. 8vo.
One Webster's Dictionary, unabridged.
Reports of State Board of Health, Lunacy and Charity, 1879, 1880, 1883 and '84.
Registration Report, 1880 and '84, 2 vols.
Bureau of Statistics of Labor, 1876, 1877, 2 vols.
Report of School Committee of Boston, 1878, 1 vol.
Names changed in Massachusetts, 1780-1883, 1 vol.
Mass. Drainage Commission, 1 vol.
Election Cases, 1 vol.
Index Digest, by W. V. Kellen, 1 vol. 8vo.
Manual for the Overseers of the Poor of Boston, 1 vol.

Respectfully submitted.

WILLIAM H. INGRAHAM,
Town Clerk.
REPORT OF OVERSEERS OF THE POOR.

Mr. Boodey, who so acceptably filled the position of Superintendent of the Almshouse for the last eighteen years, was again appointed. His death, which occurred on April 30, 1886, was very much regretted by the Selectmen and a large circle of very warm friends whom his kindly disposition had won him. Mrs. Boodey remained in charge of the Almshouse until his successor was appointed in the person of Mr. John Reed, who had been recommended by a large number of citizens.

Mr. and Mrs. Reed have acquitted themselves to the entire satisfaction of the Overseers of the Poor, and we would cheerfully commend them to the citizens of the town.

The number of inmates have increased, and we would recommend a committee to be appointed at the annual Town Meeting to inquire into the feasibility of the construction of an Almshouse at some future time. The Outside Aid has been steadily calling for an increased sum, and until the accommodations are increased at the Almshouse we cannot see how it can be otherwise.

Dr. M. J. Kelley has been continued, and in all respects his services have been satisfactory to the Board. Mr. Geo. F. Robinson was also continued Almoner.

According to the vote of the town at the last annual meeting, the sum of five hundred dollars (§500.00) was expended in the extension of the sheds and painting the barn, and they are now fully adequate for the needs of the town.
The Report of Overseers of the Poor.

The Inmates of Almshouse for the Entire Year.

<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel Bacon</td>
<td>72 years</td>
</tr>
<tr>
<td>Syrenus Bates</td>
<td>83 &quot;</td>
</tr>
<tr>
<td>William Bond</td>
<td>62 &quot;</td>
</tr>
<tr>
<td>Ellen Buckley</td>
<td>41 &quot;</td>
</tr>
<tr>
<td>John Connolly</td>
<td>60 &quot;</td>
</tr>
<tr>
<td>Catharine Fagan</td>
<td>69 &quot;</td>
</tr>
<tr>
<td>Gerry Hager</td>
<td>58 &quot;</td>
</tr>
<tr>
<td>Harriet Lawler</td>
<td>44 &quot;</td>
</tr>
<tr>
<td>Elizabeth Swan</td>
<td>57 &quot;</td>
</tr>
<tr>
<td>John Welsh</td>
<td>77 &quot;</td>
</tr>
<tr>
<td>Michael Welsh</td>
<td>62 &quot;</td>
</tr>
</tbody>
</table>

For a Portion of the Year.

<table>
<thead>
<tr>
<th>Name</th>
<th>Date of Admission</th>
<th>Date Left</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antonio Bomein</td>
<td>Sep. 16, 1886</td>
<td></td>
</tr>
<tr>
<td>Mary Gregg</td>
<td>July 1, &quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Bridget Hannigan</td>
<td>July 30, &quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Charles Doughty</td>
<td>Oct. 14, &quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Lucy E. Skimer</td>
<td>Oct. 15, &quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Maurice Galvin</td>
<td>Nov. 16, &quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Herbert Livingston</td>
<td>June 14, Left</td>
<td>June 17, 1886</td>
</tr>
<tr>
<td>Simon Fitspatrick</td>
<td>Jan. 11, Left</td>
<td>Jan. 15, 1887</td>
</tr>
<tr>
<td>George Barrows</td>
<td>&quot;</td>
<td>Jan. 16, 1887</td>
</tr>
<tr>
<td>Mary Barrows</td>
<td>&quot; 11, &quot;</td>
<td>Jan. 16, &quot;</td>
</tr>
</tbody>
</table>

In the Worcester Lunatic Asylum for the Full Year.

<table>
<thead>
<tr>
<th>Name</th>
<th>Under Military Aid Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harriet L. Butterfield</td>
<td>Margery Flynn, Abraham Johnson,</td>
</tr>
</tbody>
</table>

Under the Military Aid Act, the State pays one-half of the cost of support of Abraham Johnson. (admitted under the name of Tilly J. Johnson).

Tramps lodged and fed during the year, 325.

Charles Brigham, James F. Lynch, Charles W. Stone, Overseers of the Poor.
ASSESSORS' REPORT.

The Assessors submit as their Annual Report the following:

Value of real estate of residents, $4,124,370 00
" " personal estate of residents, 1,077,644 00
" " real estate of non-residents, 1,128,480 00
" " personal estate of non-residents, 224,630 00

Total, $6,555,124 00

Total value of real estate, $5,252,830 00
" " personal estate, 1,302,274 00

$6,555,124 00

Showing an increase in real estate of $122,540 00
But a loss in personal estate of 49,766 00

Showing a net increase in the total valuation of the town of $72,774 00

Since the valuation of last May, the constant building of dwelling houses in our midst, will probably show quite as large an increase for the current year as we had in the previous one. The personal estate in every city or town, especially in the vicinity of Boston, is liable to variations, caused by death or removal, from time to time, of those who have been with us. But the building of homes for men to dwell in, gives an assurance of stability that we may rely upon to build up our town.

Number of dwelling houses in town, 1,120
" " horses, 483
" " cows, 231
" " bulls, 2
" " sheep, 2
Number of oxen, 0
" " swine, 161
" " acres of land taxed, 2,037½
" " polls taxed, 1,701
" " persons liable to military duty, 1,110
" " children between 5 and 15 years of age, 1,091

The State Tax for the current year was $5,475 00
The County Tax for the current year was 3,291 56
" Town grants, 91,525 00
Overlay, 1,437 30

Total, $101,728 86

The tax on 1,701 polls at $2 is 3,402 00

Leaving to be assessed upon estates, $98,326 86
Which sum required a tax of $15 per thousand, an increase of $2.50 per thousand on the previous year.

**SHIPPING.**

The value of shipping engaged in foreign trade owned by residents of Watertown, is $73,349 00
The amount taxed to owners, was 2,661 00

Leaving as taxable to the State under present law, $70,688 00
The tax on that amount the State has allowed our Treasurer in adjusting balances.

There are 34 steam boilers of various capacity in town, as returned to the State.

The value of property owned by the various religious societies in town exempt from taxation, remains as last year, appraised at $98,720.

For the first time for many years, the taxable rate was $15. per thousand. If the sum is granted, the assessor's only duty is to assess it as required by law. It lies with the voters in March Meeting to say how large their tax bill shall be in September.
ASSESSORS' REPORT.

Yet it would seem that with no extraordinary call for money, and a town debt as small as our town debt is at the present time, by exercising ordinary prudence, our taxable rate should be materially reduced the current year.

Respectfully submitted,

WM. H. INGRAHAM,
WM. E. FARWELL,
MICHAEL CARROLL, 2nd,

Assessors
of
Watertown.
Synopsis of Valuation and Taxation of Watertown from 1835 (five years interval) to 1870, and annually from 1870 to 1886.

<table>
<thead>
<tr>
<th>Date</th>
<th>Polls</th>
<th>Tax on Polls Each.</th>
<th>Valuation Each.</th>
<th>T A X.</th>
<th>Rate per $1,000</th>
<th>Total Tax.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1835</td>
<td>435</td>
<td>$1.50</td>
<td>$904,220.00</td>
<td>$3,450.00</td>
<td>$455.50</td>
<td>$3,651.94</td>
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<tr>
<td>1840</td>
<td>526</td>
<td>1.40</td>
<td>1,462,730.00</td>
<td>3,700.00</td>
<td>739.62</td>
<td>3,384.49</td>
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<tr>
<td>1845</td>
<td>607</td>
<td>1.50</td>
<td>2,133,617.00</td>
<td>5,800.00</td>
<td>997.27</td>
<td>3,241.50</td>
</tr>
<tr>
<td>1850</td>
<td>373</td>
<td>1.50</td>
<td>2,614,100.00</td>
<td>2,625.00</td>
<td>1,870.37</td>
<td>3,900.00</td>
</tr>
<tr>
<td>1855</td>
<td>322</td>
<td>1.50</td>
<td>3,558,700.00</td>
<td>18,780.00</td>
<td>2,238.10</td>
<td>3,900.00</td>
</tr>
<tr>
<td>1860</td>
<td>298</td>
<td>1.50</td>
<td>2,597,800.00</td>
<td>16,400.00</td>
<td>1,884.48</td>
<td>3,113.00</td>
</tr>
<tr>
<td>1865</td>
<td>233</td>
<td>2.00</td>
<td>2,050,732.00</td>
<td>27,800.00</td>
<td>2,623.15</td>
<td>3,113.00</td>
</tr>
<tr>
<td>1870</td>
<td>1,040</td>
<td>2.00</td>
<td>4,165,090.00</td>
<td>48,400.00</td>
<td>2,839.51</td>
<td>3,113.00</td>
</tr>
<tr>
<td>1875</td>
<td>1,150</td>
<td>2.00</td>
<td>5,598,140.00</td>
<td>61,886.00</td>
<td>2,839.51</td>
<td>3,113.00</td>
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<tr>
<td>1880</td>
<td>1,170</td>
<td>2.00</td>
<td>6,772,110.00</td>
<td>68,685.00</td>
<td>3,676.37</td>
<td>3,113.00</td>
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<tr>
<td>1885</td>
<td>1,200</td>
<td>2.00</td>
<td>7,632,500.00</td>
<td>82,984.22</td>
<td>4,063.26</td>
<td>3,113.00</td>
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<tr>
<td>1890</td>
<td>1,285</td>
<td>2.00</td>
<td>8,944,990.00</td>
<td>106,497.35</td>
<td>4,338.34</td>
<td>3,113.00</td>
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<td>1895</td>
<td>1,360</td>
<td>2.00</td>
<td>7,993,920.00</td>
<td>96,311.67</td>
<td>4,067.29</td>
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<td>1894</td>
<td>1,347</td>
<td>2.00</td>
<td>7,766,170.00</td>
<td>71,516.49</td>
<td>2,638.46</td>
<td>3,113.00</td>
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<tr>
<td>1893</td>
<td>1,322</td>
<td>2.00</td>
<td>7,446,150.00</td>
<td>60,944.65</td>
<td>3,763.35</td>
<td>3,113.00</td>
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<tr>
<td>1892</td>
<td>1,303</td>
<td>2.00</td>
<td>7,035,720.00</td>
<td>63,475.00</td>
<td>3,691.71</td>
<td>3,113.00</td>
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<tr>
<td>1891</td>
<td>1,295</td>
<td>2.00</td>
<td>7,027,500.00</td>
<td>57,634.04</td>
<td>3,691.71</td>
<td>3,113.00</td>
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<tr>
<td>1890</td>
<td>1,407</td>
<td>2.00</td>
<td>7,409,050.00</td>
<td>67,258.28</td>
<td>3,226.13</td>
<td>3,113.00</td>
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<tr>
<td>1888</td>
<td>1,473</td>
<td>2.00</td>
<td>7,881,820.00</td>
<td>67,398.98</td>
<td>3,226.13</td>
<td>3,113.00</td>
</tr>
<tr>
<td>1887</td>
<td>1,467</td>
<td>2.00</td>
<td>7,095,010.00</td>
<td>101,420.51</td>
<td>3,226.13</td>
<td>3,113.00</td>
</tr>
<tr>
<td>1886</td>
<td>1,552</td>
<td>2.00</td>
<td>7,182,090.00</td>
<td>83,002.31</td>
<td>4,062.36</td>
<td>3,113.00</td>
</tr>
<tr>
<td>1885</td>
<td>1,552</td>
<td>2.00</td>
<td>7,057,100.00</td>
<td>94,124.33</td>
<td>4,694.69</td>
<td>3,113.00</td>
</tr>
<tr>
<td>1884</td>
<td>1,501</td>
<td>2.00</td>
<td>6,622,350.00</td>
<td>72,046.63</td>
<td>5,219.75</td>
<td>3,113.00</td>
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<tr>
<td>1883</td>
<td>1,761</td>
<td>2.00</td>
<td>6,555,124.00</td>
<td>91,525.00</td>
<td>5,291.56</td>
<td>3,113.00</td>
</tr>
</tbody>
</table>

* Belmont was incorporated in 1859.
COLLECTOR’S REPORT.

To the Auditor of the Town of Watertown:—

I herewith submit my report of the collection of taxes for 1882, 1883, 1884, 1885 and 1886.

1882.

Uncollected taxes,
Dr. $229 03
Cr. $229 03

1883.

Uncollected taxes,
Dr. $182 25
Cr. $182 25

1884.

Uncollected taxes,
Dr. $4,892 08
Interest, 347 61 $5,239 69
Cr. 232 37
By cash paid Town Treasurer,
Uncollected taxes, $5,007 32 $5,239 69

1885.

Uncollected taxes,
Dr. $12,707 33
Interest, 356 24 $13,064 07
<table>
<thead>
<tr>
<th></th>
<th>Cr.</th>
<th></th>
<th>Dr.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1886</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>By cash paid</td>
<td>$10,893.62</td>
<td></td>
<td>$101,728.86</td>
<td></td>
</tr>
<tr>
<td>Town Treasurer</td>
<td></td>
<td></td>
<td>Additional</td>
<td>$2,170.45</td>
</tr>
<tr>
<td>Uncollected</td>
<td>$2,170.45</td>
<td></td>
<td>Interest</td>
<td>$10.65</td>
</tr>
<tr>
<td>taxes,</td>
<td></td>
<td></td>
<td></td>
<td>$13,064.07</td>
</tr>
</tbody>
</table>

Most respectfully yours,

WILLIAM E. FARWELL, Collector.

The accounts of Wm. E. Farwell, Collector, have been duly examined by me, proper vouchers have been presented, and the outstanding balances as shown above are correct.

HOWARD RUSSELL, Auditor.
REPORT OF ENGINEERS OF THE FIRE DEPARTMENT.

Gentlemen of the Board of Selectmen:—

The Board of Engineers of the Fire Department submits the following as its annual report.

There has always been considerable delay in getting the hose carriage to fires, both day and night. After giving the matter due consideration, it was thought advisable to appoint a permanent driver for the same, and arrangements were made with Mr. Gilbert Nichols for a reasonable sum to act in that capacity, and by making some changes we believe that the extra expense will come within the limits of the appropriation for which we ask.

Organization.

John A. York, Chief Engineer.
Bradford Holbrook, 1st Assistant.
Michael Carroll, Secretary.

Pequossette Steam Fire Engine Company, No. 1, fifteen men.

C. W. Smith, Foreman.
J. H. Holt, Engineer.
Moses Pattee, Driver.
J. R. Harrison, Fireman.

A. D. Drew Hook and Ladder Company, No. 1, ten men.

M. W. Lyons, Foreman.

Apparatus.

1 steam fire engine; 1 four-wheeled hose carriage; 1 hook and ladder truck; 1 fuel wagon; 1 pung, and 4 two-wheeled
hose carriages, all in good condition except the reel on four-wheeled hose carriage, which will soon have to be replaced.

The Mayer hose relief valve placed on the engine last year has worked to our complete satisfaction.

**Hose.**

We have in service at the present time at the enginehouse and other localities, 4,500 feet of hose in good condition.

**Water for Fire Purposes.**

The supply of water for fire purposes, furnished by the Watertown Water Supply Company, has met all requirements and is a most valuable aid to the success of the efforts of this Department.

**Horses.**

This Department has five horses in service, all being in excellent condition for prompt action.

**Fires and Alarms.**

The Department has responded to nine alarms the past year; six were for fires in town, two were fires in the Brighton district, and one was for fire in Newton. The total loss amounts to $5,645.00; insurance on same, $5,425.00.

**Fire Alarm Telegraph.**

This branch of the service is in good condition. A box has been placed on Main street, opposite Howard street, as voted by the town last year. We have now nine boxes connected to the enginehouse by twelve miles of wire. We would recommend that a box be placed at or near the Union Market railway station.

We would renew our recommendation of last year for a whistle to be used in connection with the fire alarm telegraph, and we think it for the best interests of the citizens of the town, and of this Department, that prompt and favorable action be taken in the matter.
REPORT OF ENGINEERS OF FIRE DEPARTMENT. 57

Receipts and Expenditures

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appropriation</td>
<td>$5,200 00</td>
</tr>
<tr>
<td>Receipts from all sources</td>
<td>73 16</td>
</tr>
<tr>
<td></td>
<td>$5,273 16</td>
</tr>
<tr>
<td>Salaries</td>
<td>$3,393 90</td>
</tr>
<tr>
<td>Hay, straw and grain</td>
<td>635 33</td>
</tr>
<tr>
<td>Fuel and lights</td>
<td>123 29</td>
</tr>
<tr>
<td>Shoeing horses</td>
<td>106 89</td>
</tr>
<tr>
<td>Repairs</td>
<td>460 91</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>364 96</td>
</tr>
<tr>
<td></td>
<td>$5,085 28</td>
</tr>
<tr>
<td>Balance</td>
<td>$187 88</td>
</tr>
</tbody>
</table>

Recommendations.

We recommend for the use of the Department for the coming year, $5,200. This will include salaries, supplies, fuel, gas and improvements.

Acknowledgements.

We extend our sincere thanks to all for the kind and courteous treatment received at every hand and on all occasions when the services of this Department have been required.

Respectfully submitted.

JOHN A. YORK,
BRADFORD HOLBROOK,
MICHAEL CARROLL,

Engineers.
TREASURER'S REPORT.

At the close of another year, and in accordance with past custom I herewith present my report.

Very liberal appropriations were made at the last annual meeting for every department, which were large in the aggregate, and as a natural consequence, involved the necessity of an increase in the rate of taxes; this to say the least, is very undesirable, and can be avoided in the future, by our citizens carefully scrutinizing the recommendations by the several departments before making the appropriations. If this matter be well considered I feel assured it would preclude the possibility of a like result again.

The town debt, as will appear from the annexed statement, is now $25,500, and is, comparatively speaking, a small one when we take into consideration the wealth of our town, its manufactures, etc., and I see no real necessity that any portion of it should be paid off this year. It has, however, been the custom of many years past, to reduce the debt annually, in the sum of $5,000, but as there will be two notes of that amount mature on April 1st, 1887, it may be deemed expedient to pay off one of them and borrow for a term of years the sum of $5,000 to take up the other; in either event, provision should be made to take care of the notes at maturity. I would also suggest that the Treasurer be authorized to borrow, under the direction of the Selectmen, such sums in anticipation of taxes, as may be required to meet the current expenses. There will expire Policies of Insurance on the town property during the year $28,375, a schedule of them appearing in the report.
TREASURER'S REPORT.

The Auditor has made monthly examinations of my accounts, and vouchers for the same, a detailed statement of which appears in his report.

The receipts have been, $177,870 10
The expenditures have been, 170,385 94

Balance in the treasury, $7,484 16

Town debt, $25,500.

Respectfully submitted.

JOHN K. STICKNEY, Treasurer.

WATERTOWN, Feb. 10, 1887.

The accounts of John K. Stickney, Esq., Treasurer, have been duly examined by me, proper vouchers have been shown for expenditures, and the balance as here given, is correct.

HOWARD RUSSELL, Auditor.
## INSURANCE

<table>
<thead>
<tr>
<th>Property Insured</th>
<th>Where Insured</th>
<th>Amount</th>
<th>Total</th>
<th>Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centre Schoolhouse</td>
<td>Home Insurance Company, New York</td>
<td>$4,000</td>
<td>$4,000</td>
<td>Mar. 1, 1887</td>
</tr>
<tr>
<td></td>
<td>Etna Insurance Company, Hartford, Ct.</td>
<td>$4,000</td>
<td></td>
<td>Sept. 5, 1891</td>
</tr>
<tr>
<td>East Schoolhouse and Outbuildings</td>
<td>Etna Insurance Company, Hartford, Ct.</td>
<td>2,000</td>
<td>$8,000</td>
<td>Sept. 1, 1887</td>
</tr>
<tr>
<td></td>
<td>Home Insurance Company, New York</td>
<td>2,000</td>
<td></td>
<td>Sept. 5, 1891</td>
</tr>
<tr>
<td></td>
<td>North America, Philadelphia</td>
<td>2,000</td>
<td></td>
<td>Sept. 1, 1887</td>
</tr>
<tr>
<td>West Schoolhouse, Outbuildings and Furniture</td>
<td>North British and Mercantile</td>
<td>4,000</td>
<td></td>
<td>Aug. 1, 1888</td>
</tr>
<tr>
<td></td>
<td>Home Insurance Company, New York</td>
<td>4,000</td>
<td></td>
<td>Sept. 5, 1891</td>
</tr>
<tr>
<td>New Schoolhouse, Etna Mills</td>
<td>Home Insurance Company, New York</td>
<td>2,000</td>
<td>$2,000</td>
<td>July 16, 1887</td>
</tr>
<tr>
<td>South Schoolhouse, Furniture and Outbuildings</td>
<td>North British and Mercantile</td>
<td>3,000</td>
<td></td>
<td>Nov. 20, 1887</td>
</tr>
<tr>
<td></td>
<td>Home Insurance Company, New York</td>
<td>4,000</td>
<td></td>
<td>Sept. 5, 1891</td>
</tr>
<tr>
<td>Free Public Library Books</td>
<td>North British and Mercantile</td>
<td>4,000</td>
<td>$7,000</td>
<td>Dec. 29, 1889</td>
</tr>
<tr>
<td></td>
<td>Hartford Fire Insurance Company</td>
<td>2,000</td>
<td></td>
<td>Mar. 5, 1890</td>
</tr>
<tr>
<td></td>
<td>Etna Insurance Company, Hartford, Ct.</td>
<td>1,000</td>
<td></td>
<td>Oct. 11, 1891</td>
</tr>
<tr>
<td>Town House and New Engine House</td>
<td>Etna Insurance Company, Hartford, Ct.</td>
<td>3,000</td>
<td></td>
<td>Sept. 1, 1891</td>
</tr>
<tr>
<td></td>
<td>Home Insurance Company, New York</td>
<td>3,000</td>
<td></td>
<td>Oct. 11, 1891</td>
</tr>
<tr>
<td></td>
<td>Royal Insurance Company, Liverpool</td>
<td>6,000</td>
<td></td>
<td>Nov. 20, 1887</td>
</tr>
<tr>
<td></td>
<td>North America, Philadelphia</td>
<td>5,000</td>
<td>$18,000</td>
<td>Nov. 29, 1887</td>
</tr>
<tr>
<td>Piano in Town Hall</td>
<td>Home Insurance Company</td>
<td>300</td>
<td>$300</td>
<td>Apr. 16, 1889</td>
</tr>
<tr>
<td>Description</td>
<td>Company</td>
<td>Amount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>----------------------------------------------</td>
<td>---------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Almshouse, Barn and Live Stock</td>
<td>Home Insurance Company, New York</td>
<td>1,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Traders and Mechanics, Lowell</td>
<td>1,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>North America, Philadelphia</td>
<td>1,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barn</td>
<td>Traders and Mechanics, Lowell</td>
<td>1,500 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live Stock</td>
<td>Etna Insurance Company, Hartford, Ct.</td>
<td>1,570 00</td>
<td></td>
<td></td>
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<tr>
<td>Hospital Building</td>
<td>Guardian Insurance Co., London</td>
<td>500 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Schoolhouse and Philosophical Apparatus</td>
<td>North British and Mercantile</td>
<td>6,370 00</td>
<td></td>
<td></td>
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<tr>
<td>Furniture</td>
<td>Guardian Insurance Co., London</td>
<td>5,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annex</td>
<td>Home Insurance Company, New York</td>
<td>5,000 00</td>
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<td></td>
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<tr>
<td>Lowell Schoolhouse</td>
<td>Home Insurance Company, Philadelphia</td>
<td>730 00</td>
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<tr>
<td>New Library Building</td>
<td>London Assurance Corporation</td>
<td>2,000 00</td>
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<td></td>
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<tr>
<td>Grant Schoolhouse at White's avenue</td>
<td>Queen Insurance Company, Liverpool</td>
<td>5,000 00</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Lancashire Insurance Co., Manchester</td>
<td>5,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Etna Insurance Company, Hartford</td>
<td>5,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Home Insurance Company, New York</td>
<td>5,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hartford Insurance Company</td>
<td>5,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>North British and Mercantile</td>
<td>5,000 00</td>
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</tr>
<tr>
<td>Policies expiring during the year, $78,375</td>
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<td>121,055 00</td>
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Watertown, February 10, 1887.  

John K. Stickney, Treasurer.
### LIST OF TOWN NOTES, TIME OF MATURING.

<table>
<thead>
<tr>
<th>Town Debt</th>
<th>Am't.</th>
<th>Rate</th>
<th>Annual Interest</th>
<th>Interest due Semi-annually</th>
<th>Maturity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loan negotiated at Messrs. Brewster, Bassett &amp; Co.'s Boston.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note of April 1, 1878, nine years</td>
<td>5,000</td>
<td>5</td>
<td>250 00</td>
<td>Oct. 1 and Apr. 1</td>
<td>April 1, 1878.</td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; nine</td>
<td>5,000</td>
<td>5</td>
<td>250 00</td>
<td>&quot; &quot;</td>
<td>&quot; &quot;</td>
<td>&quot; 1, 1877.</td>
</tr>
<tr>
<td>&quot; &quot; ten</td>
<td>5,000</td>
<td>5</td>
<td>250 00</td>
<td>&quot; &quot;</td>
<td>&quot; &quot;</td>
<td>&quot; 1, 1888.</td>
</tr>
<tr>
<td>&quot; &quot; ten</td>
<td>5,000</td>
<td>5</td>
<td>250 00</td>
<td>&quot; &quot;</td>
<td>&quot; &quot;</td>
<td>&quot; 1, 1888.</td>
</tr>
<tr>
<td>Lowell Institution for Savings.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note of April 21, 1888</td>
<td>5,500</td>
<td>6</td>
<td>330 00</td>
<td>Oct. and Apr. 21</td>
<td>Oct. 21, 1888.</td>
<td></td>
</tr>
</tbody>
</table>

| Total | $25,500 | $1,330 00 |

**Note:** The Selectmen hold Town Treasurer's note for $2500, "Templeton Fund," dated August 21, 1874, on demand.

There is also in the treasury of the town the bequest of Martha Sanger, known as the "Martha Sanger Fund," to which on February 10, 1886, there stood the balance of $482 00. Interest allowed by the town of 5 per cent. per annum, to Feb. 1, 1887, $482 00. Balance $507 04

February 10, 1887.  

JOHN K. STICKNEY, Treasurer.
REPORT OF THE SURVEYOR OF HIGHWAYS.

The undersigned herewith respectfully submits to the town his report of the Highway Department for the year ending Jan. 31, 1887.

The amount appropriated for Highways and Drainage was $13,000, to which should be added $5,137.93 for labor performed for other departments and credited to the Highway Department.

The town at the last annual meeting voted an increased appropriation to this department, which has been largely expended for work for which estimates were presented to the town at that time; some of it, however, has been expended in other directions not contemplated when the appropriation was asked for.

By vote of the town, a drain was ordered to be laid on Main street at Lexington street; this was completed at a cost of $450. It was also voted that the streets in the vicinity of Cottage street should receive a coating of gravel; this has been done at a cost of $250. The cost of repairs on Forest street, which was accepted at that time, was about $100. These extra expenses and the purchase of a water cart and a horse, costing together $600; a new boiler for the crusher, costing with the fittings $325, and the extra cost of labor employed by the town has reduced the sum available for use in the repairing of streets, to very nearly the amount expended in former years.

There has been considerable criticism as to the manner in which some of the work was done, (it being somewhat different from former years) and it was thought more expensive than was warranted by the appropriation and the amount of work necessary to be done; yet the crusher has been run more days the past year than any other, with one exception, since it was placed in the town.
In the repairs on Main street, the grade was established by the track on one side, and a paved gutter on the other, and five crossings; so that to place any stone on the street it was necessary to carry away some of the material already there, which besides being almost worthless, had been turned over by the laying of two water pipes and a gas pipe within two years, leaving scarcely any crushed stone to withstand the heavy travel to which this street is subjected. All the good material taken from this street was used to repair Myrtle and portions of Green and Chestnut streets, for which gravel would have had to be taken from the town pit or purchased had it not been for this material. The screenings that were placed in the bottom to make a solid road bed, and to save the expense of crushed stone, were obtained from Mr. Buttrick at the Forest street pit and at the town pit, and cost no more than gravel. The road bed thus obtained should be a very lasting one. The same is true of Mount Auburn street, the waste material being carried to the park until it was no longer economy to do so on account of the distance, and was there used for grading; the rest was disposed of to the best advantage possible with the least expense. The bed thus cleaned out was as far as Irving street filled with screenings, some being obtained of Mr. Buttrick at the price of gravel, and some from the town pit; over this a layer of crushed stone was placed; the whole expense outside of crushed stone and labor was but little over $10.00. From Irving street to Mr. Adams' line, gravel was the material used exclusively; the distance of the track from the road side would have made the expense too great had crushed stone been used the entire distance. The gravel bed so made, being all of new material will probably with a few repairs last several years, and it can gradually be covered with crushed stone as needed.

The apparent deficiency in the Highway account was caused by the expenditure of $2,768 for the removal of the horse railroad track on Mt. Auburn street, which was ordered by the Selectmen.

There is an urgent call for surface drainage from all portions
of the town; in some cases it is for the enlargement of drains already laid, but in most instances it is for new work, and as each section presents its claim for relief it is a difficult matter to decide which to grant, for all are equally needed. This is true not only of the streets that have recently been accepted, but in the older portions of the town as the land becomes occupied by buildings, the abutters insist on the removal of what they consider a nuisance, and if their demands are not complied with they feel that as tax payers they are not being justly dealt with. These calls have been heeded as far as it was thought prudent, having a due regard to the other interests for which the appropriation was made.

The appropriation for the care of bridges has been slightly overdrawn; this was rendered necessary by the rebuilding, in part, of the culvert over Cook's brook at California street, which was washed out by the flood of last winter, and by the condition of the southerly abutment of the Galen street bridge, upon which a largely increased flow of water has been thrown by the piles of the building belonging to the Dyehouse Company.

I would call the attention of the citizens to the condition of the abutment of the Arsenal street bridge. It was a matter of doubt whether it would hold up until another season, as the piling has been thrown forward by the pressure of the earth behind until the amount of support they render the stone work is very small. The city of Boston rebuilt the abutment on its side of the bridge during the past season, but the smallness of our appropriation prevented us from attending to ours at the same time. It seems hardly possible that this work can be put off another year, and in order to make the necessary repairs a much larger appropriation than usual will be needed.

In addition to the removal of ashes, to which this department has attended since it was first introduced, the town voted to try the collecting of swill. In former years, there were always collectors enough during the open months, but in cold weather it was allowed to accumulate until it became a serious question
what disposition to make of it. Since the collections have been made by the town the complaints have wholly ceased, especially is this the case since the licenses given at first have been generally revoked. The swill has been sold to responsible parties who pay for it at the rate of $5.00 per cord, which is $1.00 in advance of the price obtained elsewhere; due to difference in the distance to which it is carried. I would request the citizens to put as little water in the swill buckets as possible, for it not only adds to the load you oblige the team to carry, but the person who buys it objects to being obliged to carry it away, there being no place at the farm to put it without creating a nuisance. Following are the receipts and expenditures of this department for the year:—

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appropriation,</td>
<td>$150.00</td>
</tr>
<tr>
<td>Sale of swill,</td>
<td>93.87</td>
</tr>
<tr>
<td>Balance from contingent fund</td>
<td>355.90</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$599.77</td>
</tr>
</tbody>
</table>

Tanks, buckets, etc.,          | $100.52 |
Labor, 10 months,              | 499.25  |
                             | $599.77 |

The estimated cost of the collection for the coming year, outside of the receipts, is $500.

The department is in good working condition, and the property used by it has been kept in good repair. A new steel boiler of larger capacity than the old one has been placed at the crusher. A new water cart for the use of the department has been added, and one of the carts has been altered so as to be drawn by two horses abreast. A new horse has also been purchased.

There has been 3800 tons of crushed stone placed upon the following streets: Main, from the square nearly to the library, and from Lexington street to above Mr. Lathrop's; Galen street, from the square to Watertown street, and from Boyd street to the Newton line; Mount Auburn street, from Arlington street to the East schoolhouse; Arsenal and Main streets, from Spring street to Taylor street.
Gravel has been placed on Chestnut, Cottage street and vicinity, Forest, Green, Maple, Myrtle, Pleasant, Riverside place, School, Summer, part of Water, and White’s avenue.

Nine catch basins have been built as follows: three on Main street, one on Riverside place, one on Summer street at White’s avenue, one on Mount Auburn street near Irving, two at Walnut street and one on Garfield street. There has been 1150 feet of drain pipe laid in connection with these basins. A stone drain 250 feet long, with a tile drain in the bottom, was laid on Main street at the Waltham line. There is crushed stone enough in the road bed, but the ground is full of springs and when the frost is coming out the street is almost impassable.

I would recommend that $10,000 be appropriated for Highways and Drainage for the coming year.

Respectfully submitted,

CHARLES F. JACKSON,

Surveyor of Highways.
TOWN GRANTS AND APPROPRIATIONS.

The money granted by the town for the support of the various departments was as follows, viz:—

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support of schools, fuel and superintendent.</td>
<td>$25,000.00</td>
</tr>
<tr>
<td>Fire department,</td>
<td>5,200.00</td>
</tr>
<tr>
<td>Fire alarm box, Howard street,</td>
<td>150.00</td>
</tr>
<tr>
<td>Support of poor,</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Highways and drainage,</td>
<td>13,000.00</td>
</tr>
<tr>
<td>Bridges and culverts,</td>
<td>600.00</td>
</tr>
<tr>
<td>Paying interest on town debt,</td>
<td>2,000.00</td>
</tr>
<tr>
<td>Salaries,</td>
<td>3,075.00</td>
</tr>
<tr>
<td>Discounts and abatements,</td>
<td>3,500.00</td>
</tr>
<tr>
<td>Paying a portion of town debt,</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Police,</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Insurance,</td>
<td>500.00</td>
</tr>
<tr>
<td>Free Public Library and dog tax,</td>
<td>2,650.00</td>
</tr>
<tr>
<td>Concrete sidewalks,</td>
<td>1,000.00</td>
</tr>
<tr>
<td>Contingent with other credits,</td>
<td>2,500.00</td>
</tr>
<tr>
<td>Street lights and lamp posts,</td>
<td>3,500.00</td>
</tr>
<tr>
<td>Printing,</td>
<td>600.00</td>
</tr>
<tr>
<td>Lighting and care of town hall,</td>
<td>800.00</td>
</tr>
<tr>
<td>Care of cemeteries and gravel for same,</td>
<td>100.00</td>
</tr>
<tr>
<td>Isaac B. Patten Post, 81, G. A. R.</td>
<td>200.00</td>
</tr>
<tr>
<td>State aid,</td>
<td>500.00</td>
</tr>
<tr>
<td>Military aid,</td>
<td>500.00</td>
</tr>
<tr>
<td>Removal of ashes, garbage and swill,</td>
<td>750.00</td>
</tr>
<tr>
<td>Town improvement, for planting trees, etc.,</td>
<td>300.00</td>
</tr>
<tr>
<td>Hydrants,</td>
<td>6,750.00</td>
</tr>
<tr>
<td>Board of Health,</td>
<td>350.00</td>
</tr>
<tr>
<td>Erecting shed and painting at almshouse and barn,</td>
<td>500.00</td>
</tr>
</tbody>
</table>

Total grants,                                                       | $90,025.00 |
APPRAISEMENT.

Personal property at the Almshouse in Watertown, pertaining to and used on the Town Farm, $1,972.00
Pertaining to and used on highways, 3,943.25

$5,915.25

Additional inventory in detail of the above property can be seen at the Selectmen’s room, in a book kept for that purpose.

CHARLES BRIGHAM, ) Selectmen
JAMES F. LYNCH, ) of
CHARLES W. STONE, ) Watertown.
SCHEDULE AND VALUATION OF TOWN PROPERTY.

Town Farm.

31\(\frac{1}{2}\) acres of land, $16,900.00
Buildings on the same, as follows, viz.:
House, $1,600.00
Barn, 2,500.00
Hospital, 1,000.00

Total, 5,100.00
Personal property, as per appraisement, $1,972.00
Used on roads, 3,943 25

Total, 5,915 25

Town-house and land, and engine-house.
12,920 feet of land, 60 cents, $7,752.00
Town-house and engine-house, 23,500.00
Furniture in town-house, including
heating apparatus, 2,500.00

Total, 33,752.00

Phillips (High) Schoolhouse.
57,010 feet of land, $6,000.00
High schoolhouse and furniture, 25,000.00
Philosophical apparatus, 1,500.00
Library and piano, 500.00

Total, 31,000.00

Francis (Centre) Schoolhouse.
15,318 feet of land, $3,000.00
Schoolhouse and furniture, 8,000.00
Piano, 150.00

Total, 11,150.00

Carried forward, $105,817 25
### VALUATION OF TOWN PROPERTY.

Brought forward, $105,817.25

<table>
<thead>
<tr>
<th>Schoolhouse</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coolidge (East) Schoolhouse</strong></td>
<td></td>
</tr>
<tr>
<td>27,378 feet of land,</td>
<td>$1,300.00</td>
</tr>
<tr>
<td>Schoolhouse and furniture,</td>
<td>7,000.00</td>
</tr>
<tr>
<td>Piano,</td>
<td>150.00</td>
</tr>
<tr>
<td></td>
<td><strong>8,450.00</strong></td>
</tr>
<tr>
<td><strong>Spring (West) Schoolhouse</strong></td>
<td></td>
</tr>
<tr>
<td>21,500 feet of land,</td>
<td>$1,400.00</td>
</tr>
<tr>
<td>Schoolhouse and furniture,</td>
<td>9,500.00</td>
</tr>
<tr>
<td>Piano,</td>
<td>150.00</td>
</tr>
<tr>
<td></td>
<td><strong>11,050.00</strong></td>
</tr>
<tr>
<td><strong>New West Schoolhouse</strong></td>
<td></td>
</tr>
<tr>
<td>48,120 feet of land,</td>
<td>$1,500.00</td>
</tr>
<tr>
<td>Schoolhouse and furniture,</td>
<td>5,000.00</td>
</tr>
<tr>
<td></td>
<td><strong>6,500.00</strong></td>
</tr>
<tr>
<td><strong>Parker (South) Schoolhouse</strong></td>
<td></td>
</tr>
<tr>
<td>11,830 feet of land, at 15 cents per foot,</td>
<td>$1,775.00</td>
</tr>
<tr>
<td>Gleason land, adjoining,</td>
<td>4,000.00</td>
</tr>
<tr>
<td>Schoolhouse and furniture,</td>
<td>8,000.00</td>
</tr>
<tr>
<td>Piano,</td>
<td>150.00</td>
</tr>
<tr>
<td></td>
<td><strong>13,925.00</strong></td>
</tr>
<tr>
<td><strong>Lowell Schoolhouse</strong></td>
<td></td>
</tr>
<tr>
<td>15,648 feet of land,</td>
<td>$450.00</td>
</tr>
<tr>
<td>Schoolhouse and furniture,</td>
<td>3,000.00</td>
</tr>
<tr>
<td></td>
<td><strong>3,450.00</strong></td>
</tr>
<tr>
<td><strong>Grant Schoolhouse</strong></td>
<td></td>
</tr>
<tr>
<td>34,000 feet of land,</td>
<td>$4,600.00</td>
</tr>
<tr>
<td>Schoolhouse and furniture,</td>
<td>12,500.00</td>
</tr>
<tr>
<td></td>
<td><strong>16,500.00</strong></td>
</tr>
</tbody>
</table>

Carried forward, $165,692.25
VALUATION OF TOWN PROPERTY.

Brought forward, $165,692 25

Apparatus Used by Fire Department.

Steam fire engine and hose carriage, $3,375 00
Five horses for engine and hose carriage, 1,000 00
Hose, harnesses and furniture, 2,000 00
New hook and ladder truck, 600 00
Bangor ladder, 125 00
Four hose carriages, 200 00
Tender-wagon, pung and equipments, 300 00

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7,600 00

Public Library.

Land, $10,000 00
Building and heating apparatus, 30,000 00
Library and furniture, 12,000 00

---

52,000 00

Miscellaneous.

Iron safe at Town Treasurer's, 40 00
Hay-scales, 125 00
Gravel bank on Bacon Hill, 1 2-5 acres of land, 1,000 00
Two water carts, 400 00
Tainter gravel lot, 350 00
Titcomb land, 14,000 00
Bath house, 700 00

Total valuation of town property, $241,907 25
AUDITOR'S REPORT.

SCHEDULE OF RECEIPTS AND EXPENDITURES FOR THE FISCAL YEAR, ENDING JANUARY 31, 1887.

RECEIPTS.

Cash in treasury, February 10, 1886, $5,380 41
Received of William E. Farwell, collector, taxes and interest, 1884, 5,007 32
William E. Farwell, collector, taxes and interest, 1885, 10,893 62
William E. Farwell, collector, taxes and interest, 1886, 83,472 17
Borrowed of Brewster, Cobb & Esternbrook, at 3% 45,000 00
Borrowed of Brewster, Cobb & Esternbrook, at 4% 10,000 00

ON ACCOUNT OF ALMSHOUSE.

Received of John Reed, keeper, sale of produce, $60 78
Received of C. B. Swain, guardian, aid rendered Martha A. Fenton, 807 78
Received of city of Cambridge, aid rendered Mary Haley, 3 98
Received of town of Weir, aid rendered Mary Cabana, 45 50

$159,753 52
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Received of town of Wrentham, aid rendered O. I. Barton</td>
<td>$23.00</td>
</tr>
<tr>
<td>Received of city of Fitchburg aid rendered E.G. Spaulding</td>
<td>192.00</td>
</tr>
<tr>
<td>Received of town of Belmont, rent of pest house and aid rendered Mrs. Conners</td>
<td>181.65</td>
</tr>
<tr>
<td>Received of city of Boston, aid rendered Wm. Swine</td>
<td>18.00</td>
</tr>
<tr>
<td>Received of city of Lawrence, aid rendered Annie Grey</td>
<td>6.13</td>
</tr>
<tr>
<td>Received of Treasurer of Commonwealth, support of state paupers</td>
<td>255.51</td>
</tr>
<tr>
<td>Received of Stephen H. Hoogs, aid rendered Mrs. Hellen G. Bright</td>
<td>111.64</td>
</tr>
<tr>
<td>Received of town of Abington aid rendered Mrs. Margaret Conners</td>
<td>29.56</td>
</tr>
<tr>
<td>Received of John M. Fiske, labor of prisoners</td>
<td>24.17</td>
</tr>
<tr>
<td>Received of town of Princeton, aid rendered Herbert Livingstone</td>
<td>2.00</td>
</tr>
<tr>
<td>Received of town of Brewster, aid rendered Henry Robbins</td>
<td>8.00</td>
</tr>
<tr>
<td>Received of Superintendent of Highways, for hay and straw</td>
<td>260.00</td>
</tr>
<tr>
<td>Received of city of Newton, aid rendered Jas. Lennon and Patrick Madden</td>
<td>50.73</td>
</tr>
</tbody>
</table>

**Total** $2,080.43
AUDITOR'S REPORT.

ON ACCOUNT OF CEMETERIES.

Received of Alexander Gregg, sale of grave lots, 388 50

$388 50

ON ACCOUNT OF CONCRETE WALKS.

Received of Abuttors, assessments, 1,011 37

$1,011 37

ON ACCOUNT OF FIRE DEPARTMENT.

Received of John A. York, 26 16
Received of Almshouse department for manure, 35 00
Received of Superintendent of Highways for coal used pumping, Morse st., 12 00

$73 16

ON ACCOUNT OF HIGHWAY DEPARTMENT.

Received of Charles F. Jackson, Superintendent, sale of pumps, iron, and for outside labors, 220 33

Received of ash and garbage department, for removal of ashes and swill, 1,175 00
Received of school department, for labor at Ætna Mills schoolhouse, 3 00
Received of Almshouse department, for labor at almshouse, 17 00
Received of Contingent department, for labor cleaning Nichols' brook, 3 00
Removing pumps and setting drinking fountains, $92.50
Received of bridge and culvert department for labor on bridges and culverts, 451.20
Received of sidewalk department for labor on sidewalks, 249.50
Received of Arsenal street department, for labor filling, 88.60
Received of Town Improvement department, setting trees, 68.80

$2,368.93

ON ACCOUNT OF INTEREST.

Received of Union Market Bank, interest on deposits, $104.02
Brewster, Cobb & Estabrook, 2 mo's interest
4 % note $10,000, 66.67

$170.69

ON ACCOUNT OF POLICE DEPARTMENT.

Received of J. H. Holt, keeper of lockup, fees for lodgings, $10.35

$10.35

ON ACCOUNT OF PUBLIC LIBRARY.

Received of County Treasurer, dog tax for 1885, $478.40
Dog tax for 1886, 481.68
Solon F. Whitney, librarian, sale of catalogues, fines and books destroyed, 116.43

$1,076.51
AUDITOR'S REPORT.

ON ACCOUNT OF ASH AND SWILL DEPARTMENT.

Received of Chas. F. Jackson, superintendent, for sale of swill, $93.87
For outside labor on ashes, 17.00

$110.87

ON ACCOUNT OF SCHOOL DEPARTMENT.

Received of Treasurer of Commonwealth, School Fund, $74.12
Charity Lodge, rent of rooms & Etna Mills schoolhouse, 25.00
Bradshaw Whitney, old lumber, 3.50

$102.62

ON ACCOUNT OF TOWN HOUSE.

Received of George H. Gregg, janitor, rent of Hall to Feb. 1, 1887, $409.00

$409.00

MISCELLANEOUS RECEIPTS.

Received of Treasurer of Commonwealth, corporation tax, $6,741.25
National Bank tax, 1,204.17
State Aid, 255.71
Military Aid, 320.00
Tax on ships engaged in foreign trade, 1,048.32

Received of E. F. Barnes, auctioneer's license, 2.00
J. B. Woodward, apothecary license, 1.00
Received of Geo. F. Taylor, apothecary license, $1 00
Mrs. Ellen F. Sullivan, apothecary license, 1 00
J. J. Sullivan, returned witness fees, 34 00
J. J. Dalton, billiard table license, 2 00
S. B. McAscall, billiard table license, 2 00
Horace Wheeler, on account of bills paid by Town, ordered by Board of Health, 25 50
W. H. Ingraham, as a gift to the Town for drinking fountain, 137 50
L. Robillard, license for sale of butterine, 50
F. A. Smith, license for sale of butterine, 50
D. P. Wholley, license for sale of butterine, 50
P. Quinn, license for sale of butterine, 50
Hayes Bro's, license for sale of butterine, 50
Fletcher & Towne, license for sale of butterine, 50
P. J. Smith, license for sale of butterine, 50
F. I. Putnum, license for Intelligence office, 2 00
Wm. Cushing, amount
AUDITOR'S REPORT.

returned from funds drawn on account of Park, $78 00

Received of Thomas Patten, fees for weighing, 83 60
Cambridge R. R. Co., labor filling, 222 60
Robert Lindsey, rent of pasture on Park land, 27 00
Town Treasurer, interest on John Templeton Fund, 122 00

$10,314 15

EXPENDITURES.

To cash paid Almshouse, $7,569 64
Bridges and culverts, 718 19
Board of Health, 300 00
Concrete walks, 2,436 59
Contingent, 4,797 94
Cemeteries, 152 00
Discounts and abatements, 4,696 88
Fire department, 5,085 28
Fire alarm box, 145 57
Highways, 17,651 47
Hydrant service, 6,434 57
Interest, 2,209 22
Insurance, 542 25
I. B. Patten Post 81, G. A. R., 200 00
Military aid, 593 93
Police, 5,177 50
Public Library, 2,994 78

$17,870 10
AUDITOR'S REPORT.

To cash paid Printing, $688.80
Removal of ashes and swill, 1,266.97
Shed erected at Alms-house, 500.00
Schools, 24,779.89
Salaries, 3,075.00
Street lights, 3,396.76
State aid, 274.00
Town debt, 5,000.00
Town House, 1,390.22
Town improvement, 300.00
Templeton fund, 122.00
Widening Arsenal street, 983.53
White's avenue bridge, 5,453.59
State tax, 5,475.00
National Bank tax, 974.37
Borrowed money, 55,000.00

Balance in treasury, $170,385.94

Receipts and Expenditures in Detail.

ALMSHOUSE.

Receipts.

To Appropriation, $6,000.00
John Reed, keeper, sale of farm produce, 60.78
C. B. Swain, guardian, aid rendered Martha A. Fenton, 807.78
City of Cambridge, aid rendered Mary Haley, 3.98
Town of Weir, aid rendered Mary Cabana, 45.50

$177,870.10
AUDITOR'S REPORT.

Town of Wrentham, aid rendered O. I. Barton, $23.00
City of Fitchburg, aid rendered E. G. Spaulding, 192.00
Town of Belmont, aid rendered Mrs. Connors, and rent of Pest House, 181.65
City of Boston, aid rendered Wm. Sime, 18.00
City of Lawrence, aid rendered Annie Grey, 6.13
Treasurer of Commonwealth, support of State paupers, 255.51
Stephen H. Hoogs, aid rendered Mrs. Helen G. Bright, 111.64
Town of Abington, aid rendered Mrs. Margaret Connors, 29.56
John M. Fiske, labor of prisoners, 24.17
Town of Princeton, aid rendered Herbert Livingston, 2.00
Town of Brewster, aid rendered Henry Robbins, 8.00
Superintendent of Highways, for hay and straw, 260.00
City of Newton, aid rendered Jas. Lennon and Patrick Madden, 50.73

$8,080.43

Expenditures.

Salaries.

Z. Boodey, Superintendent to June 15, $229.16
John Reed, balance of year, 312.50
AUDITOR'S REPORT.

Annie McAskill, domestic, $58 50
Katie Murphy, " 57 00
Ellen Mongan " 38 00
George F. Robinson, Almoner and expenses, 102 60
M. J. Kelley, Town physician, one year, 100 00

$897 76

GROCERIES.

C. W. Berry, $108 44
Lynch Brothers, 206 64
E. C. & A. B. Hall, 72 96
E. A. Benton, 12 37
Levelley Brothers, 11 21
J. J. Barnes, 19 24

$430 86

PROVISIONS, MEAT AND FISH.

Hackett Brothers, $77 96
H. P. Mason, 65 20
W. H. Lyman, 39 00
T. F. Kelly, 35 56
N. B. Hartford, 27 07
J. H. Snow, 35 88

$280 67

HAY, GRAIN AND FLOUR.

Perkins & Co., $359 36

$359 36

DRY GOODS AND CLOTHING.

Otis Brothers, dry goods, $74 52
A. L. Gordon, dry goods, 25 58
J. R. Parlin, clothing, 27 05

$127 15
AUDITOR'S REPORT.

FUEL.

Thomas Gavin, coal, $55 00

$55 00

HARDWARE AND TOOLS.

George E. Teele, $44 13
R. H. Paine, 3 08

$47 21

BLACKSMITHING AND MISCELLANEOUS REPAIRS.

Thomas Collins, harness repairs, $9 90
W. H. Greenleaf, pump 6 50
John Ross, repairing mowing machine and blacksmithing, 41 05
A. D. Drew, repairing boots and shoes, 3 50
Berry & Moody, carpenter work, 13 69
J. F. Ham, horseshoeing, 7 50
James McLaughlin, mason work, 7 50
Walker & Pratt Manuf'ng Co., repairing tin ware and stove linings, 10 61
W. L. Stiles, repairing tin ware, 40
Thomas Patten, harness repairs, 3 05

$103 70

MISCELLANEOUS.

Mrs. J. Albert Sullivan, medicines, $17 20
Z. Boodey, glasses for inmates, 2 00
Mrs. Z. Boodey, horse robes and harness, 170 00
Mrs. Z. Boodey, corn sheller, 5 00
" " cash paid inmates July 4, 4 00
Ellen A. Colbath, butter, 7 50
Geo. F. Taylor, medicines, 9 00
L. Bent, mat and dishes, 1 53
AUDITOR'S REPORT.

George E. Adams, crockery ware and chimneys, $2.97
Dr. M. J. Kelley, silk knee-cap for inmate, 2.50
P. J. Kelly, pigs, 6.00
Thomas Gavin, mowing, 22.00
John Flood, burial of Mary Gregg, 25.00
Howard Brothers, ice, and killing hogs, 29.50
Gilkey & Stone, lumber, lime and cement, 4.25
Alexander Gregg, burial of Antonio Bomein, 25.00
W. H. Ingraham, collecting claim Martha A. Fenton, 25.00
Fiske & Arnold, repairing artificial leg, 2.50
J. H. Critchett, express, 50
T. P. Emerson, " 1.65
J. B. Woodward, medicines, 15.15
Fire Department, manure, 35.00
Highway Department, moving corn barn, 17.00

$439.25
$2,731.96

ASSISTANCE TO PERSONS OUTSIDE OF ALMSHOUSE.

Arlin, John, provisions, fuel, medicine and groceries, $29.75
Burke, Mrs. James, groceries, 59.00
Barton, O. L., groceries, 27.00
Byrnes, M. C., groceries, fuel and rent, 37.57
Barber, Miss Martha, death certificate, 3.00
AUDITOR'S REPORT. 85

Butterfield, Harriet L., Worcester Lunatic Hospital, $173.98
Booker, Bridget, rent and aid by Boston, 71.65
Corcoran, Mrs. P., rent, provisions and groceries, 292.93
Cabana, Mary, provisions and groceries, 63.05
Cahill, Mrs., provisions, 1.00
Chase, Mrs. Charles, groceries, 52.00
Claffin, R. F., fuel, provisions and groceries, 58.42
Clouse, Ellen A., provisions and groceries, 22.84
Connors, Mrs. Wm., groceries, 26.50
Connors, Mrs. Margaret, groceries and dry goods, 42.86
Debrow, Harmon, groceries, 29.44
Departia, Jos., groceries, provisions, nurse and medicine, 114.85
Flynn, Margery, Worcester Lunatic Hospital, 182.03
Ford, Austin, Chronic Insane Asylum, 195.21
Flarity, Mary, Danvers and Tewksbury asylums, 30.64
Flynn, Ellen M., State Industrial School, 1.00
Gallagher, Mrs. Kate, $20 a month, flour, medicines, groceries and provisions, 322.45
Grey, Annie, provisions and fuel, 16.18
Galvin, Morris, medicines, 12.30
Galvin, Mrs. Mary, groceries, 5.00
Galvin, Mrs. P. S., rent and fuel, 7.00
Hall, Richard, rent, groceries, provisions and medicines, 142.79
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Hammond, Richard</td>
<td>at House of Angel Guardian</td>
<td>$40.25</td>
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<tr>
<td>Holmes, Mrs. Mary</td>
<td>rent and fuel</td>
<td>61.50</td>
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<tr>
<td>Hannigan, Mrs. P.</td>
<td>groceries, fuel and rent</td>
<td>41.34</td>
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<tr>
<td>Hall, Mrs. Kate</td>
<td>medicines</td>
<td>2.85</td>
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<td>House, Mrs.</td>
<td>rent</td>
<td>26.00</td>
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<tr>
<td>Logan, Mrs. P.</td>
<td>$15 four months, $10 eight months</td>
<td>140.00</td>
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<td>Lennon, Jos.</td>
<td>groceries</td>
<td>21.82</td>
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<td>Loftis, Patrick</td>
<td>House of Correction</td>
<td>16.23</td>
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<td>McDonald, Christine</td>
<td>groceries, fuel and rent</td>
<td>12.66</td>
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<td>Madden, Patrick</td>
<td>fuel and groceries</td>
<td>25.75</td>
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<td>McGrath, James</td>
<td>provisions, groceries and fuel</td>
<td>46.89</td>
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<td>Murphy, James</td>
<td>rent and fuel</td>
<td>68.38</td>
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<td>Meagher, Mrs.</td>
<td>groceries and fuel</td>
<td>66.98</td>
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<tr>
<td>Milnes, Mrs. Ann</td>
<td>milk, fuel and medicines</td>
<td>30.40</td>
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<td>Milner, Mrs.</td>
<td>fuel</td>
<td>25.50</td>
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<td>Pond, Kate</td>
<td>aid by city of Newton</td>
<td>16.15</td>
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<td>Quinlan, John</td>
<td>family of, aid by Framingham</td>
<td>172.66</td>
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<td>Quinlan, Augustus</td>
<td>at City Hospital</td>
<td>109.00</td>
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<td>Robbins, Henry</td>
<td>fuel and groceries</td>
<td>8.00</td>
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<td>Rooney, Mrs. Eliza</td>
<td>groceries and rent</td>
<td>107.65</td>
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<td>Regan, Mrs. Thos.</td>
<td>rent and fuel</td>
<td>97.73</td>
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<td>Skinner, Elizabeth</td>
<td>at House of Correction</td>
<td>41.83</td>
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<td>Sullivan, John J.</td>
<td>groceries and dry goods</td>
<td>199.52</td>
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<tr>
<td>Sullivan, Mrs. Florence</td>
<td>rent, provisions, groceries and fuel</td>
<td>246.34</td>
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AUDITOR'S REPORT.

<table>
<thead>
<tr>
<th>Name</th>
<th>Item Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Smith, Mrs. Annie E.</td>
<td>$20 a month and medicines</td>
<td>$248.96</td>
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<tr>
<td>Stevens, John</td>
<td>groceries and medicines</td>
<td>$64.36</td>
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<tr>
<td>Sime, William</td>
<td>provisions and groceries</td>
<td>$27.00</td>
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<tr>
<td>Spaulding, E. G.</td>
<td>groceries</td>
<td>$156.00</td>
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<tr>
<td>Sprague, Ellen M.</td>
<td>rent, by town of Barnstable</td>
<td>$104.00</td>
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<td>Tufts, W. H.</td>
<td>aid by town of Concord</td>
<td>$82.00</td>
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<tr>
<td>Travellers</td>
<td>refreshments</td>
<td>$8.18</td>
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<td>Tyler, John</td>
<td>at Cambridge Hospital</td>
<td>$21.00</td>
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<tr>
<td>Thomas, Henry</td>
<td>groceries and provisions</td>
<td>$18.00</td>
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<tr>
<td>Tuck, Mrs. B. W.</td>
<td>Consumptive's Home</td>
<td>$7.00</td>
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<tr>
<td>Vahey, Mrs. John</td>
<td>rent, provisions, groceries and fuel</td>
<td>$321.15</td>
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<tr>
<td>Williston, George B.</td>
<td>fuel, medicines and groceries</td>
<td>$46.50</td>
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<tr>
<td>Walker, Charles E.</td>
<td>monthly aid</td>
<td>$75.00</td>
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<tr>
<td>Welch, Michael</td>
<td>at House of Correction</td>
<td>$6.40</td>
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<tr>
<td>Young, Thomas</td>
<td>fuel and groceries</td>
<td>$6.26</td>
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$4,837.68

$7,569.64

$8,080.43

BRIDGES AND CULVERTS.

<table>
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<th>Item Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>To Appropriation</td>
<td>$600.00</td>
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<tr>
<td>Contingent transfer</td>
<td>$118.19</td>
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</tbody>
</table>

$718.19
AUDITOR'S REPORT.

Expenditures.

To Walker & Pratt Manuf'ng Co., lumber,
A. L. Thompson, carpenter work, Galen street,
John O’Brien, clay, Galen street,
Thomas Gavin, mason work, Galen street,
Gilkey & Stone, lumber and cement,
John Ross, bolts and irons,
Berry & Moody, carpenter work,
James Gallighan, stone, Galen street,
Howard Brothers, use of engine, Galen street,
A. C. Richardson, use of pump, Galen street,
Pevear & Russell, fuel for engine, Galen street,
Highway Department, labor,

$18.75
18.00
9.60
10.00
92.56
5.00
27.83
38.50
21.00
19.50
6.25
451.20

$718.19

BOARD OF HEALTH.

To Appropriation,

$350.00

$350.00

Expenditures.

To McLauthlin & Co., record book, files and stationery,
George S. Parker, postage and labor inspecting,
Fred. G. Barker, printing postals, circulars and inspection blanks,
G. B. Williston, inspector,

$8.93
9.70
42.50
118.05
AUDITOR'S REPORT.

To S. S. Gleason, stamped envelopes and advertising, $19 60
W. A. Learned, profile and lines Railroad Brook, 8 00
Thomas Gavin, cleaning brook, 8 75
W. P. Harris, clerk and inspector, 84 47

Unexpended balance to contingent, $300 00
50 00

$350 00

CONCRETE WALKS.

To Appropriation, $1,000 00
Assessments collected, 1,011 37
Contingent transfer authorized Dec. 29.

$2,436 59

Expenditures.

To D. F. Tripp, concrete walks and repairs, $2,098 09
A. A. Libbey, edgestones, 43 30
M. J. Donohoe, cutting edge-
stones, 4 00
John O'Brien, filling on Walnut
street, 12 32
Thomas Gavin, repairing wall and
walk, Chestnut street, 29 38
Highway Department, labor, 249 50

$2,436 59

CONTINGENT.

To Appropriation, $2,500 00
Treasurer of Commonwealth, cor-
poration tax, 6,741 25
To Treasurer of Commonwealth, balance of bank tax, 229 80
Treasurer of Commonwealth, State Aid, 255 71
Treasurer of Commonwealth, Military Aid, 320 00
Treasurer of Commonwealth, tax on ships engaged in foreign trade, 1,048 32
E. F. Barnes, auctioneer's license, 2 00
J. B. Woodward, apothecary's license, 1 00
George F. Taylor, apothecary's license, 1 00
Mrs. Ellen F. Sullivan, apothecary's license, 1 00
J. J. Sullivan, returned witness fees, Arsenal street case, 34 00
J. J. Dalton, billiard table license, 2 00
S. B. McAskill, " " " 2 00
F. I. Putnum, intelligence office license, 2 00
W. H. Ingraham, gift to the town, drinking fountain, 137 50
Horace Wheeler, on account of bills paid by the town, ordered by Board of Health, 25 50
L. Robillard, license for sale of butterine, 50
F. A. Smith, license for sale of butterine, 50
D. P. Whalley, license for sale of butterine, 50
P. Quinn, license for sale of butterine, 50
Hayes Bro's, license for sale of butterine, 50
AUDITOR'S REPORT.

To Fletcher & Towne, license for sale of butterine, $ 50
P. J. Smith, license for sale of butterine, 50
Wm. Cushing, amount unexpended on Park improvements, 78 00
Thomas Patten, fees for weighing on Town scales, 83 60
Cambridge R. R. Co., on account of labor on Mt. Auburn street, 222 60
Robert Lindsey, rent of pasture, Titcomb place, 27 00
Overlay of taxes, $1,437 30

Unexpended balance Almshouse, $510 79
" " Board of Health, 50 00
Unexpended balance Cemeteries, 336 50
" " Fire Department, 187 88
Unexpended balance Fire Alarm Box, 4 43
Unexpended balance Hydrant Service, 315 43
Unexpended balance Public Library, 731 73
Unexpended balance Schools, 322 73
" " Street Lights, 103 24
" " State Aid, 226 00
" " Widening Arsenal street, 516 47

$16,460 28
Expenditures.

To J. B. Goodrich, legal services, $1,000 00
P. J. Kelly, horse hire, police and
selectmen, 65 00
J. J. Sullivan, legal services, 575 00
Dennis Murphy, labor at Town
scales, 1 00
McLauthlin & Co., stationery, col-
lector's and assessors' blanks, 14 69
T. P. Emerson, expressage, 2 35
Priest, Page & Co., repairing
Town scales, 2 75
Chas. A. York, ringing bell Feb.
22, and July 4, 4 50
George A. Merry, refreshments.
(Town Meetings), 94 50
King & Merrill, auditor's book, 7 00
Frank M. Kelly, taking census
South side, 1886, 15 00
W. E. Farwell, taking census
South side, 1886, 18 00
Fred. G. Barker, envelopes, 3 75
W. T. Pierce, plans and survey
Riverside place and Forest street, 43 00
Alexander Griswold, painting wa-
ter carts, 37 00
S. S. Gleason, stamped envelopes, 18 70
Wm. Rogers, care of Town clock
one year, 50 00
New England Telephone Co., tele-
phone one year, 61 66
John Ross, repairs on water carts, 88 75
Thomas Gavin, gravel, and labor
on Park, 211 60
Wm. Cushing, for Park improve-
ments, 400 00
To Mrs. Riodan, in full settlement for injuries received by fall on sidewalk, $50.00
George S. Bowen, repairing pump, Summer street, 2.00
N. Jenkins, repairing pump on Main street, 1.50
Moses Whiting, labor on Park, 13.19
L. P. Wiley, refreshments, (town officers), 1.00
W. T. Pierce, plan of Chester, Otis and Washburne streets, 3.00
Lynch Brothers, broom for bath-house, 3.00
Briggs E. Potter, horse hire, police and selectmen, 36.00
Kern & Fitch, abstracts of deeds, 17.55
W. E. Farwell, collector book, postage, and taking census South side, 1887, 36.60
Fitchburg R. R. Co., freight on drinking fountains, 7.02
Henry F. Jenks, drinking fountains, 183.28
George Goodhue, pipes, and labor on fountains, 95.42
W. E. Farwell, making duplicate returns of valuation and tax to State, 50.00
W. H. Ingraham, making duplicate returns of valuation and tax to State, 50.00
Pevear & Russell, brick for setting fountain, 7.60
AUDITOR'S REPORT.

To A. L. Thompson, labor on Park fence. $105.95
Chelmsford Foundry Co., iron fence and stone posts. 482.33
John O'Brien, labor at Park. 177.00
Hugh Monahan, care of bath house. 120.00
Potter Machine Co., man-hole frame and cover at fountain. 10.15
Moses Whiting, moving telegraph pole. 2.00
Thomas Gavin, cleaning vault Morse street, filled from defective drain. 3.00
Board of Registrars, salary. 200.00
Arthur Hodges, examination and report on J. H. Conant's gravel bank. 14.00
W. E. Farwell, assisting Registrars. 10.00
A. D. Henderson, raising draw, Arsenal street. 47.00
Kenny's express, expressage. 60.00
Alexander Gregg, death returns. 12.00
Water Committee, use of hired water carts. 7.00
Chas. Cummings, ringing bell Feb. 22, and July 4. 4.50
Highway Department, cleaning Nichols' brook. 3.00
Highway Department, removing pumps and setting drinking fountains. 92.50
Thos. Patten, one-half receipts Town scales. 41.80

94
AUDITOR'S REPORT.

To Thos. Patten, weigher's tickets, $1 50
S. S. Gleason, services as moderator, 10 00
S. S. Gleason, advertising warrants and notices, 47 00
W. H. Ingraham, collecting, and recording births, marriages and deaths, 87 40
Frank M. Kelly, taking statistics South side, 1887, 28 00
Henry Russell, removing paint from buildings on Main street, July 5, 1886, 2 25
J. K. Stickney, check book, stationery, and preparing State Aid papers, 20 25

$4,797 94

The following amounts were transferred from this account by the Board of Selectmen, authorized by a vote of the Town, Dec. 29, to meet deficiencies in these departments:

Bridges and culverts, $118 19
Concrete walks, 425 22
Discounts and abatements, 482 38
Highway department, 2,282 54
Interest, 38 53
Insurance, 42 25
Military aid, 93 93
Police, 107 15
Printing, 88 80
Removal of ashes and swill, 406 10
Town House, 181 22
White's avenue bridge, 5,453 59

$9,779 90

$14,577 84

Unexpended balance, 1,882 44

$16,460 28
AUDITOR’S REPORT.

CEMETERIES.

To Appropriation, $100 00
Alexander Gregg, sale of grave
lots:
- No. 186, to Arabella Pratt, 37 50
- No. 187, to A. H. White, 13 50
- No. 188, to E. P. Wilson, 37 50
- No. 189, to T. P. Emerson, 50 00
- No. 190, to Charles Slade, 50 00
- No. 191, to Artemas Locke, 75 00
- No. 192, to Sarah B. Sawyer, 45 00
- No. 193, to Charles E. Berry, 55 00
- No. 194, to Lucius Bemis, 25 00

$488 50

Expenditures.

To Alexander Gregg, care of cemeteries, $150 00
Thomas Gavin, repairing wall, Arlington street, 2 00 $152 00
Unexpended balance to contingent, 336 50

$488 50

DISCOUNTS AND ABATEMENTS.

To Appropriation, $3,500 00
Interest collected, 714 50
Contingent transfer authorized Dec. 482 38 $4,696 88

Expenditures.

To W. E. Farwell, collector, abatements, 1884, $165 66
AUDITOR'S REPORT.

To W. E. Farwell, collector, abatements, 1886, $622.67
W. E. Farwell, collector, discounts, 1886, 3,135.74 $4,696.88

FIRE DEPARTMENT.

To Appropriation, $5,200.00
Almshouse department, for manure, 35.00
Highway department, pumping water on Morse street, 12.00
John A. York, sale of old junk, 26.16 $5,273.16

Expenditures.

PAY ROLLS.

To Board of Engineers, one year to Feb. 1, 1887, $285.00
Steam Fire Engine Co., one year to Feb. 1, 1887, 760.00
Hook and Ladder Co., one year to Feb. 1, 1887, 510.00
J. H. Holt, engineer, one year to Feb. 1, 1887, 900.00
Moses Pattee, driver, one year to Feb. 1, 1887, 720.00
J. R. Harrison, stoker, one year to Feb. 1, 1887, 75.00
J. R. Harrison, relief engineer, 42.50
Henry Howard, relief driver, 20.00
Alexander Flanders, driver of hose carriage, 30.00
Gilbert Nichols, driver of hose carriage, 51.40 $3,393.90
## AUDITOR'S REPORT.

### HAY, STRAW AND GRAIN.

<table>
<thead>
<tr>
<th>To Perkins &amp; Co.</th>
<th>$635.33</th>
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### FUEL AND LIGHTS.

<table>
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<tr>
<th>To Pevear &amp; Russell, cannel coal</th>
<th>$21.70</th>
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<tbody>
<tr>
<td>Thomas Gavin, wood</td>
<td>2.80</td>
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<tr>
<td>Newton &amp; Watertown Gas Light Co., gas</td>
<td>98.79</td>
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<tr>
<td></td>
<td>$123.29</td>
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### SHOEING.

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<tr>
<th>To W. C. Foley</th>
<th>$43.62</th>
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<td>J. F. Ham</td>
<td>63.27</td>
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<td></td>
<td>$106.89</td>
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### REPAIRS.

<table>
<thead>
<tr>
<th>To Thomas Collins, harness and repairs</th>
<th>$38.55</th>
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<tbody>
<tr>
<td>Walker &amp; Pratt Manuf'ng Co., solder, and labor on engine</td>
<td>24.54</td>
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<tr>
<td>George E. Teele, hardware</td>
<td>19.02</td>
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<tr>
<td>A. J. Wilkinson, couplers</td>
<td>2.24</td>
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<tr>
<td>R. H. Paine, hardware</td>
<td>10.15</td>
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<tr>
<td>Blake Manufacturing Co., valve springs</td>
<td>3.60</td>
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<tr>
<td>John Ross, wheelwright and blacksmithing</td>
<td>85.52</td>
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<tr>
<td>Moses Whiting, carpenter work</td>
<td>26.09</td>
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<tr>
<td>Wm. Campbell &amp; Co., repairs on steamer</td>
<td>17.82</td>
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<tr>
<td>Alexander Griswold, painting supply wagon and hose carriage</td>
<td>51.25</td>
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<tr>
<td>M. J. Ward, repairing hose</td>
<td>163.95</td>
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<tr>
<td>S. F. Stearns, carpenter work</td>
<td>8.73</td>
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</tbody>
</table>
AUDITOR’S REPORT.

To Thomas Patten, harness repairs, $6 95
Wm. Rogers, repairing clock, 2 50

$460 91

MISCELLANEOUS.

To American Steam Gauge Co., Haley nozzles, $30 00
Edwin Rogers, vitriol, zinc and coppers, 62 33
T. P. Emerson, expressage, 3 60
Lynch Brothers, salt, 1 25
Alvarado Meyers, automatic relief valve, 93 00
L. H. Allen, expressage, 5 00
C. W. Berry, soap, oil, brooms and brush, 17 32
G. Fred Moore, nickel-plated lubricators, 24 00
Mrs. J. Barry, washing bed clothing, 24 00
Thomas Gavin, pumping water, 4 00
Luther Bent & Co., door mat sheets and carpets, 6 10
G. E. & H. W. Badger, tripoli, 6 00
H. F. Bright, dentistry and clipping, 11 00
McLauthlin & Co., time-book and printing, 2 50
Alexander Boyd, regulation spanners and lanterns, 13 25
Watertown Water Supply Co., water tax, 22 50
J. H. Critchett & Son, expressage, 11 25
To J. R. McLaughlin, veterinary surgeon, $9 00
   J. B. Woodward, medicines and liniments, 18 86  $364.96
   Unexpended balance to contingent, 187 88  $5,085.28
   Unexpended balance to contingent, 187 88  $5,173.16

**FIRE ALARM BOX, HOWARD STREET.**

<table>
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<tr>
<th>To Appropriation</th>
<th>$150 00</th>
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**Expenditures.**

| To Charles L. Bly, telephone poles, $6 00 |
| Moses Whiting, setting poles, 11 61 |
| Edwin Rogers, automatic monitor fire alarm, 127 96 |
| Unexpended balance to contingent, 4 43 |

| $145 57 |
| $150 00 |

**G. A. R., I. B. Patten Post 81.**

<table>
<thead>
<tr>
<th>To Appropriation</th>
<th>$200 00</th>
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</table>

**Expenditures.**

| To Charles White, treasurer, $200 00 |

| $200 00 |

**HIGHWAYS.**

| To Appropriation, $13,000 00 |
| Charles F. Jackson, superintendent, sale of pump, old iron, and for outside labors, 220 33 |
AUDITOR'S REPORT.

To Health Department, removal of ashes and swill, $1,175.00
School Department, labor at Aetna Mills schoolhouse; 3.00
Almshouse Department, moving corn barn, 17.00
Contingent Department, cleaning Nichols' brook, 3.00
Contingent Department, removing pumps and setting drinking fountains, 92.50
Bridge Department, labor on bridges, 451.20
Sidewalk Department, labor on sidewalks, 249.50
Widening Arsenal street, for filling, 88.60
Town Improvement, setting trees, 68.80
Contingent transfer authorized Dec. 29., 2,282.54

$17,651.47

Expenditures.

To Charles F. Jackson, superintendent, pay rolls, $13,443.51

MATERIAL FOR ROADS.

To Bradshaw Whitney, stone for crusher, $12.00
John O'Brien, " " " 45.00
Wm. McGuire, " " " 54.20
W. H. Wallace, " " " 77.40
J. H. Russell, " " " 99.00
Patrick Condon, " " " 91.80
J. Hennessy, " " " 43.80
George F. Russell, " " " 95.00
J. E. Gill, " " " 4.50
To Patrick Doody, stone for crusher, $98.70
Thomas Dalby, gravel, 28.80
J. H. Conant, " 45.00
Francis Buttrick, " 77.90
R. P. Stack, sand, 7.35
J. P. Winslow, gravel, 72.60
Thomas Gavin, " 20.00

$873.05

HAY, STRAW AND GRAIN.
To Almshouse Department, hay and straw, $260.00
Perkins & Co., grain, 395.86

$655.86

HORSESHOEING AND BLACKSMITHING.
To J. F. Nolan, shoeing, $32.85
John Ross, grate bars, catch-basin frames, wheelwright work and blacksmithing, 176.24
W. C. Foley, shoeing and blacksmithing, 200.57
Patrick Regan, sharpening picks, 75.85

$485.51

FENCE MATERIAL AND CARPENTER WORK.
To Gilkey & Stone, lumber and cement, $36.27
S. F. Stearns, removing dead limb, 1.00
A. L. Thompson, carpenter work, 14.23
Moses Whiting, carpenter work, 35.47
Berry & Moody, carpenter work, 36.24

$123.21

REPAIRS.
To Thomas Collins, harness repairs and brushes, $15.51
AUDITOR'S REPORT.

To Walker & Pratt Manuf'ng Co., repairs on crusher, $19 72
Kendall & Roberts, plate iron and crusher repairs, 7 76
Farrell Foundry & Machine Co., crusher plates, 50 01
New Eng. Machine Co., boiler repairs, 359 54
Alfred Hale, rubber packing, 4 76
George Goodhue, valve and connections, 12 25
N. Jenkins, repairing pump, 11 00
Festus Egan, " " 1 00
Thomas Patten, harness repairs, 26 47

$508 02

MISCELLANEOUS.

To W. C. Foley, new water cart, and putting on sprinkler, $288 50
Charles A. Smith, patent sprinkler, 67 50
H. Gove & Co., paving, 47 35
Vacuum Oil Co., oil, 12 40
Marcellus Day, drain pipe, 15 00
D. F. Tripp, concrete gutters, 28 33
Otis Brothers, rubber boots, 2 85
J. H. Critchett & Son, express-age and oil, 16 15
Edson Manufacturing Co., suction hose, coupling and strainer, 33 30
George E. Teele, hardware, drain-pipe and tools, 119 41
Lynch Brothers, pails, oil and oat-meal, 9 46
To Alex. Griswold, painting carts and lanterns, $22.25
Fitchburg R. R. Co., freight on castings, 5.78
H. W. Clapp, sewer inlet caps, 108.90
Parker & Wood, barrow trays, 3.50
John T. Foley, painting signs, snow ploughs and cart, 29.75
Kenny's express, expressage, 1.30
Pevear & Russell, brick, and fuel for crusher, 111.49
W. H. Bustin, horse collar, 6.50
R. H. Paine, drain pipe, hardware and tools, 276.71
T. P. Emerson, expressage, 1.30
Watertown Water Supply Co., water for sprinkling, 39.15
C. W. Berry, oat meal and oil, 3.33
W. F. Clark, black horse, 240.00
Fire Department, pumping water, Morse street, 12.00
Boston & Albany R. R. Co., freight on castings, 1.60
Thomas Gavin, fuel for crusher, 61.50

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<th>Item</th>
<th>Amount</th>
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<tr>
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<td>$1,562.31</td>
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<tr>
<td>Total (rounded)</td>
<td>$17,651.47</td>
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**HYDRANT SERVICE.**

To Appropriation, $6,750.00

**Expenditures.**

To Watertown Water Supply Co., use of hydrants 135, to Apr. 1, $3,000.00
AUDITOR'S REPORT.

To Watertown Water Supply Co.,
use of hydrants 164, to Oct. 1,\n\n\n\n$3,434.57 \quad $6,434.57
\nUnexpended balance to contingent,
\n\n\n315.43
\n\n\n$6,750.00

INTEREST.

To Appropriation,

$2,000.00

Union Market National Bank, interest on deposit,

104.02

Brewster, Cobb & Co., lapsed interest on note.

66.67

Contingent transfer authorized Dec. 29,

38.53

$2,209.22

Expenditures.

To Watertown Savings Bank, six months' interest on $5,000 at 5 %,

$125.00

Brewster, Cobb & Estabrook, one year's interest on $10,000 at 5 %,

500.00

Cambridgeport Savings Bank, one year's interest on $10,000 at 5 %,

500.00

Lowell Institution for Savings, one year's interest on $5,500 at 6 %,

330.00

John Templeton Fund, one year's interest on $2,500.

122.00

Treasurer of Commonwealth, interest on loan note at 3 1/4 %,

88.47

Brewster, Cobb & Estabrook, interest on loan notes at 3 %,

543.75

$2,209.22
**INSURANCE.**

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<tr>
<td>To Appropriation,</td>
<td>$500.00</td>
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<tr>
<td>To Contingent transfer authorized</td>
<td>42.25</td>
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<td>Dec. 29,</td>
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**Expenditures.**

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<tr>
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<tr>
<td>To Wm. H. Ingraham, policies of Insurance on school buildings, Town, and enginehouse,</td>
<td>$542.25</td>
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**MILITARY AID.**

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<td>Contingent transfer authorized</td>
<td>93.93</td>
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<td>Dec. 29,</td>
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**Expenditures.**

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<tr>
<td>To Thomas Donlan, 12 months,</td>
<td>$72.00</td>
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<td>Daniel Johnson, 12 &quot;</td>
<td>72.00</td>
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<td>Charles J. Towle, 12 &quot;</td>
<td>96.00</td>
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<td>Loui Lemmins, 12 &quot;</td>
<td>96.00</td>
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<td>Abram Johnson, 12 &quot;</td>
<td>179.93</td>
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<td>William Sime, 6 &quot;</td>
<td>60.00</td>
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<td>Elbridge Robbins, 3 &quot;</td>
<td>18.00</td>
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<td>$593.93</td>
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**NEW SHED AT ALMSHOUSE.**

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**Expenditures.**

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<tr>
<td>To H. W. Macurdy, contract,</td>
<td>$500.00</td>
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AUDITOR'S REPORT.

POLICE.

To Appropriation, $5,000 00
J. H. Holt, keeper of lockup, travellers' fees, 10 35
Contingent transfer authorized Dec. 29, 167 15 $5,177 50

Expenditures.

To E. V. Howard, 1 year to Feb. 1, 1887, $912 50
George Parker, 1 year to Feb. 1, 1887, 912 50
Daniel H. Cooney, 1 year to Feb. 1, 1887, 912 50
Thomas Lyons, 1 year to Feb. 1, 1887, 912 50
James Burke, 1 year to Feb. 1, 1887, 807 09
M. W. Lyons, special, 275 00
Michael Carroll, " 137 50
Richard Newman, " 8 75
L. A. Shaw, " 137 50
C. D. Dimick, " 5 00
J. H. Holt, keeper of lockup 1 year, 60 00
Newton & Watertown Gas Light Co., gas, 63 92
R. H. Paine, snow shovel, chains and tacks, 1 41
E. V. Howard, duster, 50
J. P. Lovell & Son, police calls, 3 75
F. L. Goldsmith, police clubs, 2 50
Jas. Cogan, police belts and leathersing clubs, 10 75
To George Parker, Waltham and Watertown Directory,
McLauthlin & Co., bottle of ink, 1 50
Frederick Alford, coat and vest buttons, 9 58
Thomas Patten, one 1 1/4 inch strap, 50
C. W. Berry, soap, sand and matches, 1 90

$5,177 50

PUBLIC LIBRARY.

To Appropriation, $2,650 00
County Treasurer, dog tax, 1885, 478 40
*County Treasurer, dog tax, 1886, 481 68
S. F. Whitney, librarian, fines and sale of catalogues, 116 43

$5,726 51

* Received one month earlier than usual, to apply to Public Library appropriation for 1887.

Expenditures.

To S. F. Whitney, librarian, $450 00
Miss Jane Stockwell, assistant, 437 50
Miss M. E. Sherman, 337 50
Wm. McCaferty, janitor, 175 60
A. H. Roffe & Co., books and periodicals, 155 55
Estes & Lauriat, books, 322 56
J. D. F. Brooks, binding books, 43 35
C. F. Libby & Co., books, 2 14
U. S. Patent Office, specifications and drawings, 46 80
S. F. Whitney, books, 22 00
N. Lamson, books, 5 00
AUDITOR'S REPORT.

To Little, Brown & Co., books, $117.90
Henry C. Nash, books, 60.00
Cuppes, Upham & Co., books, 46.96
W. H. Thompson & Co., Grant Memoirs, 3.00
Clark & Carruth, books, 83.94
J. H. H. McNamee, binding books, 88.30
Wm. Rockwood, books, 3.00
Rand, Avery & Co., books, 5.75
Institute Publishing Co., books, 3.60
C. F. Fitz, books, 5.95
Cleaves, McDonald & Co., books, 11.24
DeWolfe, Fiske & Co., books, 7.25
George E. Littlefield, books, 65.25
Library Bureau, slips and books, 17.00
R. H. Paine, grass hooks, stone, and sharpening lawn mower, 3.65
Newton & Watertown Gas Light Co., gas, 243.02
Geo. E. Teele, lawn rake, hose and sprinkler, 8.00
Walker & Pratt Manuf'ng Co., boiler repairs, 4.24
Pevear & Russell, fuel, 70.80
Thomas Gavin, fuel, 68.25
S. S. Gleason, advertisement in "Enterprise," 3.00
Ethan A. Paddock, tree protectors, 10.70
J. H. Critchett, expressage, 5.05
T. P. Emerson, expressage, 6.40
To S. F. Whitney, librarian, cash paid for cleaning, $25 45
Substitute for assistants, express, periodicals and stationery, 29 08 $2,994 78
Unexpended balance to contingent, 731 73 $3,726 51

PRINTING.
To Appropriation, $600 00
Contingent transfer authorized 88 80 $688 80

Expenditures.
To McLauthlin & Co., warrants, ballots, notices, envelopes and bill-heads, $79 00
Fred. G. Barker, Town Reports, envelopes and voting lists, 609 80 $688 80

REMOVAL OF ASHES AND SWILL.
To Appropriation, $750 00
Cash received from sale of swill, 93 87
Cash received for labor on ashes, 17 00
Contingent transfer authorized Dec. 29, 406 10 $1,266 97

Expenditures.
To Berry & Moody, box for collection of swill, $15 56
Berry & Moody, tank for storage, 45 16
O. Lappen & Co., swill buckets, 7 50
AUDITOR’S REPORT.

To W. C. Foley, ironing box and tank, $16 25
J. T. Foley, painting box and buckets, 7 50
Highway Department, labor of removal, 1,175 00

$1,266 97

SCHOOLS AND SUPERINTENDENT.

To Appropriation, $25,000 00
Treasurer of Commonwealth, school fund, 74 12
Charity Lodge, rent of room Ætna Mills school-house, 25 00
Bradshaw Whitney, for old lumber, 3 50

$25,102 62

Expenditures.

SALARIES OF TEACHERS.

To George R. Dwelley, superintendent and teacher, $2,500 00
George S. Turner, 1,250 00
Miss Etta B. Dadmun, 800 00
Mrs. Laura A. Campbell, 800 00
Miss Ellen M. Crafts, 762 50
Miss Fannie E. Carr, 650 00
Miss Alice G. Patten, 625 00
Henry B. Doland, 600 00
Miss Elizabeth P. Skinner, 550 00
Miss Corinne Brainard, 525 00
Miss Mannie B. Patten, 495 00
Miss E. A. Adams, 475 00
Miss Lillian M. Stratton, 467 50
Miss J. M. Riley, 450 00
### Auditor's Report

To Miss M. J. McDonough, $445.00
Miss Nellie E. Williams, 445.00
Miss S. Alice Fell, 445.00
Miss Hattie B. Johnson, 437.50
Miss Ruth W. Howard, 437.50
Miss Viola L. Pool, 437.50
Miss Alice J. Parsons, 400.00
Miss Mary E. Madden, 375.00
Miss Margaret L. Sullivan, 375.00
Miss Mary E. Burns, 350.00
Miss Florence B. Chandler, 347.50
Miss Annie D. Hall, 300.00
Miss Clara E. Davis, 275.00
Miss Florence W. Merry, 250.00
Miss Minnie O'Brien, 250.00
Miss Anna H. Packard, 212.50
Miss Lizzie A. Burbank, 200.00
Miss Ida E. Miner, 150.00
Miss Elizabeth T. Packard, 120.00
Miss Henrietta M. Lowe, 120.00
Miss Sarah M. Thacher, 45.00
Miss Mary A. Clement, 33.00
E. P. Rollins, 27.00
Miss Ellen M. Jones, 11.25
Miss Jeanette W. Cobb, 10.00
Miss Annie M. Skinner, 9.00
Miss Emma H. McLouthlin, teacher of drawing, 400.00
S. H. Hadley, teacher of music, 400.00

**Salaries of Janitors and Truant Officers.**

To George F. Robinson, one year, $699.96
A. H. Stone, **"** 570.81
Mrs. Austin, 99.96

$18,257.75
AUDITOR'S REPORT.

To Mrs. Ryan, $60.00
J. K. Tarlton, 60.00
Gardner Priest, substitute, 5.50
Henry Howard, 32.00
E. V. Howard, truant officer, 20.00
George Parker, " " 20.00
George F. Robinson, truant officer, 20.00
A. H. Stone, " " 20.00

BOOKS, STATIONERY AND PRINTING.

To McLauthlin & Co., books and stationery, $1,397.85
Fred. G. Barker, printing, 38.25
Ginn & Co., books, 22.71
Warren P. Adams, books, 8.44
Cowperthwait & Co., books, 6.30
Harrison Hume, books, 4.17
D. Appleton & Co., books and charts, 23.30
Lee & Shepard, books, 3.67
Thos. Hall & Co., stationery and magnetic instruments, 2.85
J. L. Hammett, books and weights, 21.55
Wm. Ware & Co., books, 7.50
F. M. Ambrose, books, 11.05

REPAIRS AND INCIDENTALS.

To Henry Russell, setting glass, $37.09
J. T. Blaisdell, carpenter work, 234.10
Gilkey & Stone, lumber, 195.85
S. F. Stearns, carpenter work, 56.40
George Goodhue, plumbing, 17.55
J. T. Foley, lining blackboard, 75.00

$1,608.23

$1,547.64
**AUDITOR’S REPORT.**

To W. H. Greenleaf, plumbing, $104.14
A. L. Thompson, carpenter work, 12.99
J. E. Bell, blackboard and repairs, 52.42
Festus Egan, plumbing, 26.99
Geo. S. Bowen, plumbing, 5.25
Berry & Moody, carpenter work, 50.98
Walker & Pratt Manuf'ng Co., 43.63
furnace and stove repairs,
John Page, painting, 18.61
James McLaughlin, mason work, 139.50

**FUEL.**

To Thomas Gavin, $526.50
Pevear & Russell, 176.19
George H. Sleeper, 312.63
Robert Fawcett, charcoal, 42.90
J. McCarthy, charcoal, 28.80

**MISCELLANEOUS.**

To T. P. Emerson, expressage, $27.70
Geo. E. Teele, keys, shovels and 50.81
hardware,
Thomas Gavin, cleaning vaults, 67.00
and gravel,
A. C. Fletcher, mugs, 72.00
Wm. Rogers, cleaning and repair- 4.50
ing clocks,
R. H. Paine, coal-hod and hard- ware, 3.26
Mrs. J. A. Sullivan, acids, 1.30
John Allen, tuning and repairing pianos, 45.00
Ethan A. Paddock, tree protect- ors, 12.80

**Total:** $996.25

**Total:** $1,087.02
AUDITOR'S REPORT.

To George R. Dwelley, carriage hire, fares and postage, $29 84
J. C. Stone, removing ashes, 4 00
Robbins & Lyons, disinfectant, 20 00
Mrs. Ryan, cleaning, 2 40
Educational Supply Co., rubber tube, glasses and wire, 8 54
Murphy, Leavens & Co., brushes, 9 00
Florence Sullivan, cleaning, 5 00
Prang Educational Co., drawing material, 10 80
Pammenter Crayon Co., crayons, 26 90
Silver, Rogers & Co., stencils and maps, 181 00
Harry Lyman, drum, 5 75
S. S. Gleason, advertising school notice, 12 00
George F. Taylor, acids, 1 40
A. G. Whitcomb, school furniture, 300 35
Charles C. Gerry, erasers, 10 00
H. C. Kendall, filling diploma, 35
Watertown Water Supply Co., water tax, 207 50
C. W. Berry, sawdust, brooms, mats and brushes, 10 38
L. H. Allen, expressage, 12 30
Otis Brothers, ribbons for diplomas, 2 27
J. B. Woodward, chemicals, 3 10
Briggs E. Potter, carriage hire, 15 50
S. H. Hadley, orchestra, school exhibition, 15 00
Geo. F. Robinson, cleaning windows and removing desks, 30 00
Geo. H. Tarlton, cleaning and repairing clocks, 19 10
AUDITOR'S REPORT.

To Burdett Business College, engrossing diplomas, $5 60
John Regan, cutting grass, 3 50
E. A. Benton, soap, ammonia and sand, 2 28
A. H. Stone, cleaning windows, 28 25
Pat. Nally, expressage, 21 25
J. H. Critchett & Son, expressage, 60
D. F. Tripp, concreting schoolyard, 54 60
Highway Department, labor, Aetna Mills, 3 00
Mrs. Austin, washing windows, 5 00
J. H. Flagg, brooms, 90
Lynch Bro's, brooms, pails and dippers, 2 45

Unexpended balance to contingent, $1,283 00
$24,779 89
$322 73
$25,102 62

SALARIES.

To Appropriation, $3,075 00

Expenditures.

To Board of Selectmen, Charles Brigham, $200 00
Chas. W. Stone, 200 00
Jas. F. Lynch, 200 00
Board of Assessors, W. H. Ingraham, 350 00
W. E. Farwell, 250 00
Michael Carroll, 2d, 250 00
School Committee. A. L. Richards, 50 00
C. W. Stone, 50 00
AUDITOR'S REPORT.

To School Committee, R. P. Stack, $50 00
A. G. Fitch, 50 00
J. C. Stone, 50 00
J. A. Mead, 50 00
Town Treasurer, J. K. Stickney, 300 00
Town Clerk, W. H. Ingraham, 350 00
Town Collector, W. E. Farwell, 450 00
Town Auditor, Howard Russell, 225 00

$3,075 00

STREET LIGHTS.

To Appropriation, $3,500 00

Expenditures.

To Newton & Watertown Gas Light Co., lamp posts, frames and setting, 122 95
Newton & Watertown Gas Light Co., care of, oil and gas, street lights to Jan. 1, 3,273 81
Unexpended balance to contingent, 103 24

$3,500 00

STATE AID.

To Appropriation, $500 00

Expenditures.

To Deborah Bright, 1 month, $4 00
Mary McCabe, 12 months, 48 00
Edward Lord, 12 " 48 00
Mary L. Sawtelle, 12 " 48 00
Sarah W. White, 11 " 36 00
AUDITOR'S REPORT.

To Ellen McNamara, 12 months, $48.00
Jos. Bright, 6 " 24.00
Richard Allen, 3 " 18.00

Unexpended balance to contingent, $274.00

Total $500.00

STATE TAX.

To amount assessed, $5,475.00
Amount paid Treasurer of Commonwealth, $5,475.00

TOWN HOUSE, LIGHTING AND CARE OF.

To Appropriation, $800.00
Geo. H. Gregg, Janitor, rent of hall to Feb. 1, 409.00
Contingent transfer authorized Dec. 29, 181.22

Total $1,390.22

Expenditures.

To Geo. H. Gregg, Janitor one year to Feb. 1, 1887, $400.00
Henry Russell, setting glass, 1.00
H. W. Martin, repairing chairs, 3.55
Lynch Brothers, pails, brooms and matches, 2.39
Newton & Watertown Gas Light Co., gas, 233.78
E. C. & A. B. Hall, mop, brush and sand, 98
Moses Whiting, carpenter work, 41.46
Festus Egan, plumbing, 160.23
AUDITOR'S REPORT.

To J. T. Foley, lettering door, $1.50
George H. Gregg, cleaning drain and hall, and express, 55.32
L. Bent & Co., carpet for Board of Health, 27.97
Geo. E. Teele, key, staple and weather strips, 8.15
H. W. Martin, tables, 8.05
Thomas Gavin, gravel, lime and cleaning vault, 14.75
J. W. Priest, chairs and settees, 27.00
Walker & Pratt Manuf'ng Co., repairing boilers, 43.17
Pevear & Russell, fuel, 326.27
Edward Pike, repairing gas fixtures, 1.50
Thos. McLaughlin, mason work, 6.00
R. H. Paine, duster, 3.00
Keeler & Co., office table, 18.00
C. W. Berry, mop handles and pails, 2.70
T. P. Emerson, moving piano and expressage, 4.05

$1,390.82

TOWN IMPROVEMENT.

To Appropriation, $300.00

Expenditures.

To W. C. Strong, trees, $116.00
Gilkey & Stone, tree protectors, 115.20
Highway Department, setting trees, 68.80

$300.00
AUDITOR'S REPORT.

TOWN DEBT, PAYING PORTION OF.

To Appropriation, $5,000 00 $5,000 00

Expenditures.

To Watertown Savings Bank, note of April 1, 1878, $5,000 00 $5,000 00

THE TEMPLETON BENEFIT FUND.

The Templeton Fund of $2,500, the interest of which is distributed annually, according to the terms of the bequest (statement of which can be seen on page 65 of the Town Report for 1874), is loaned to the town by the Selectmen, they holding the Town Treasurer's note for the amount and collecting annually (Dec. 21) the interest, which is the sum to be distributed.

To interest allowed on $2,500 one year, to Dec. 21, 1886, $122 00 $122 00

Expenditures.

GOODS DELIVERED BY ORDER OF THE SELECTMEN.

Paid N. B. Hartford, $6 00
Pevear & Russell, 16 00
Jos. Flannery, 2 00
C. W. Berry, 12 00
J. R. Parlin, 2 00
W. H. Lyman, 4 00
Field & Melvin, 8 00
Lynch Brothers, 26 00
A. L. Gordon, 8 00
Hackett Brothers, 4 00
E. C. & A. B. Hall, 4 00
Otis Brothers, 26 00
H. P. Mason, 4 00

$122 00
AUDITOR'S REPORT.

WIDENING ARSENAL STREET.

To Appropriation, $1,500 00

Expenditures.

To W. T. Pierce, lines and grades of wall, $14 40
Geo. H. Sleeper, excavating and mason work, 377 85
Gilkey & Stone, lumber, 2 68
R. Gilkey, moving buildings, 500 00
Highway Department, filling and fencing, 88 60
Unexpended balance to contingent, 516 47

$1,500 00

WHITE'S AVENUE BRIDGE.

* To Contingent, $5,453 59

Expenditures.

To Thos. Gavin, balance of contract, $4,352 10
Thos. Gavin, digging post holes, 10 63
Wm. T. Pierce, engineering services, 80 80
Gilkey & Stone, lumber for fence, 148 91
Moses Whiting, carpenter work, 45 85
Thos. Ferden, painting bridge and fence, 65 30
Laura E. Barrett, land damages, 350 00
Mrs. Leonard Whitney, land damages, 400 00

$5,453 59

* Considered as a liability in statement of assets and liabilities, see page 117 of Town Report for 1885.
STATEMENT OF ASSETS AND LIABILITIES EXCLUSIVELY OF TOWN DEBT TO FEB. 1, 1887.

To balance in hands of Treasurer, Feb. 10, 1887, $7,484 16
Amount due from State on account of State Aid, 226 00
Amount due from State on account of Military Aid, 296 96
Outstanding taxes, 1882, in hands of W. E. Farwell, collector, 229 03
Outstanding taxes, 1883, in hands of W. E. Farwell, collector, 182 25
Outstanding taxes, 1884, in hands of W. E. Farwell, collector, 232 37
Outstanding taxes, 1885, in hands of W. E. Farwell, collector, 2,170 45
Outstanding taxes, 1886, in hands of W. E. Farwell, collector, 15,003 78
Amount due from abutters on account of sidewalks, 220 26

$26,045 26

Liabilities.

To amount due Brewster, Cobb & Estabrook, note of Dec. 2, 1886, $10,000 00
Miss Martha Sanger bequest with interest to Feb. 1, 1887, 507 04
Amount due Public Library, dog tax, 1886, 481 68

$10,988 72

$15,056 54
The above statement closes the financial department for the year. The Town Debt has been reduced $5,000, in accordance with the provision made for that purpose. The debt is now $25,500, and drawing annual interest, as follows (see table, page 62):

<table>
<thead>
<tr>
<th>Amount</th>
<th>Interest Rate</th>
<th>Interest</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,500</td>
<td>6%</td>
<td>$330</td>
<td>$5,830</td>
</tr>
<tr>
<td>20,000</td>
<td>5%</td>
<td>1,000</td>
<td>21,000</td>
</tr>
<tr>
<td>$25,500</td>
<td></td>
<td>$1,330</td>
<td>$26,830</td>
</tr>
</tbody>
</table>

Respectfully submitted.

HOWARD RUSSELL, Auditor.
## Summary of Receipts, Appropriations and Expenditures for the Year Ending January 31, 1887

<table>
<thead>
<tr>
<th>Appropriations</th>
<th>Receipts</th>
<th>Transfers to Departments overdrawn</th>
<th>Total Expenditures</th>
<th>Unexpend. Balances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Almshouse</td>
<td>26,000</td>
<td>$23,080 42</td>
<td>$7,569 61</td>
<td>$510 79</td>
</tr>
<tr>
<td>Board of Health</td>
<td>350</td>
<td>300</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Contingent</td>
<td>2,500</td>
<td>13,986 28</td>
<td>4,797 84</td>
<td>*11,682 34</td>
</tr>
<tr>
<td>Cemeteries</td>
<td>100</td>
<td>388 50</td>
<td>192 60</td>
<td>395 90</td>
</tr>
<tr>
<td>Concrete Walks</td>
<td>1,000</td>
<td>1,011 37</td>
<td>425 22</td>
<td>2,436 59</td>
</tr>
<tr>
<td>Discounts &amp; Abatements</td>
<td>3,500</td>
<td>714 36</td>
<td>482 35</td>
<td>4,086 68</td>
</tr>
<tr>
<td>Fire Department</td>
<td>5,200</td>
<td>75 10</td>
<td>5,058 28</td>
<td>187 88</td>
</tr>
<tr>
<td>Fire alarm box, Howard St.</td>
<td>150</td>
<td>145 57</td>
<td>4 43</td>
<td></td>
</tr>
<tr>
<td>Highways &amp; Drainage</td>
<td>13,000</td>
<td>2,568 23</td>
<td>2,292 54</td>
<td>17,651 47</td>
</tr>
<tr>
<td>Hydrant Service</td>
<td>6,750</td>
<td>6,434 57</td>
<td>315 43</td>
<td></td>
</tr>
<tr>
<td>I. B. Patton Post &amp; G. A. E</td>
<td>200</td>
<td>200 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insurance</td>
<td>500</td>
<td>42 25</td>
<td>542 35</td>
<td></td>
</tr>
<tr>
<td>Revenue</td>
<td>2,000</td>
<td>170 69</td>
<td>2,369 22</td>
<td></td>
</tr>
<tr>
<td>Military Aid</td>
<td>500</td>
<td>93 33</td>
<td>593 53</td>
<td></td>
</tr>
<tr>
<td>New Shed at Almshouse</td>
<td>500</td>
<td>500 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Police</td>
<td>5,500</td>
<td>167 15</td>
<td>5,177 50</td>
<td></td>
</tr>
<tr>
<td>Public Library</td>
<td>2,350</td>
<td>2,094 78</td>
<td>731 73</td>
<td></td>
</tr>
<tr>
<td>Printing</td>
<td>600</td>
<td>88 50</td>
<td>688 80</td>
<td></td>
</tr>
<tr>
<td>Removal of Ashes &amp; Swil.</td>
<td>700</td>
<td>406 10</td>
<td>1,266 57</td>
<td></td>
</tr>
<tr>
<td>Schools and Superintendent</td>
<td>25,000</td>
<td>102 62</td>
<td>24,728 88</td>
<td>322 76</td>
</tr>
<tr>
<td>Salaries</td>
<td>3,075</td>
<td>3,675 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Street Lights &amp; Lamp Posts</td>
<td>3,500</td>
<td>3,366 76</td>
<td>163 24</td>
<td></td>
</tr>
<tr>
<td>State Aid</td>
<td>500</td>
<td>274 60</td>
<td>223 00</td>
<td></td>
</tr>
<tr>
<td>Town House, lighting &amp; care</td>
<td>800</td>
<td>181 22</td>
<td>1,200 22</td>
<td></td>
</tr>
<tr>
<td>Town Improvement</td>
<td>300</td>
<td>300 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Town Debt, paying portion</td>
<td>5,000</td>
<td>5,000 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Templeton Fund</td>
<td>500</td>
<td>122 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Widening Arsenal Street</td>
<td>1,500</td>
<td>983 73</td>
<td>516 47</td>
<td></td>
</tr>
<tr>
<td>White's Avenue Bridge</td>
<td>1,500</td>
<td>1,500 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taxes paid to Feb. 10, 1887</td>
<td>25,000</td>
<td>25,000 62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest collected (carried to discounts and abatements) and overlay taxes</td>
<td>2,500</td>
<td>2,500 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Items being included in the receipts of its respective accounts</td>
<td>257 00</td>
<td>257 00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash in Treasury, Feb. 10, 1887</td>
<td>5,380 41</td>
<td>5,380 41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Borrowed Money paid</td>
<td>55,660 60</td>
<td>55,660 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Bank Tax paid</td>
<td>374 30</td>
<td>374 30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Tax paid</td>
<td>374 30</td>
<td>374 30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balance in Treasury, Feb. 10, 1887</td>
<td>7,484 16</td>
<td>7,484 16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deduct from amt. of Receipts unexpended balances carried to contingent</td>
<td>3,300 20</td>
<td>3,300 20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leaving actual receipts</td>
<td>$177,870 10</td>
<td>$9,779 90</td>
<td>$177,870 10</td>
<td></td>
</tr>
</tbody>
</table>

*From balance of Contingent Account deduct transfers, $9,779 90, leaving an actual balance of $1,882 44.
A LIST OF JURORS,
As prepared Feb. 14, 1887, and submitted by the Selectmen, as required by law, for the consideration of the Town at the Annual meeting.

<table>
<thead>
<tr>
<th>Adams, George E.</th>
<th>Huckins, David T.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexander, William A.</td>
<td>Knox, Oscar F.</td>
</tr>
<tr>
<td>Bailey, Arthur H.</td>
<td>Learned, Waldo A.</td>
</tr>
<tr>
<td>Banks, Thomas G.</td>
<td>Levelley, Joseph M.</td>
</tr>
<tr>
<td>Barker, Joseph G.</td>
<td>Lathrop, William</td>
</tr>
<tr>
<td>Bemis, Lucius</td>
<td>Lee, James</td>
</tr>
<tr>
<td>Benton, Edward A.</td>
<td>Lougee, Charles E.</td>
</tr>
<tr>
<td>Bigelow, Jonathan</td>
<td>Madden, James</td>
</tr>
<tr>
<td>Bigelow, Henry J.</td>
<td>Martin, Henry W.</td>
</tr>
<tr>
<td>Blaisdell, James T.</td>
<td>March, Fred. N.</td>
</tr>
<tr>
<td>Brown, Frank A.</td>
<td>Mayo, Emery M.</td>
</tr>
<tr>
<td>Burnham, Charles H.</td>
<td>McLaurin, Lewis</td>
</tr>
<tr>
<td>Burns, Joseph H.</td>
<td>Mannahan, Edward C.</td>
</tr>
<tr>
<td>Barton, S. M.</td>
<td>Mannahan, James D.</td>
</tr>
<tr>
<td>Bustin, W. H. Jr.</td>
<td>Merrifield, Hosea F.</td>
</tr>
<tr>
<td>Benjamin, William H.</td>
<td>Murphy, Michael F.</td>
</tr>
<tr>
<td>Cahill, James</td>
<td>Newcomb, John W.</td>
</tr>
<tr>
<td>Carroll, Michael, 2nd</td>
<td>Norcross, James H.</td>
</tr>
<tr>
<td>Carter, John W.</td>
<td>Noyes, Charles H.</td>
</tr>
<tr>
<td>Chase, Henry</td>
<td>Otis, Ward M.</td>
</tr>
<tr>
<td>Critchett, Fred. E.</td>
<td>Pevear, William H.</td>
</tr>
<tr>
<td>Chadbourne, Henry R.</td>
<td>Phipps, Sanford</td>
</tr>
<tr>
<td>Cunniff, Martin J.</td>
<td>Priest, David H.</td>
</tr>
<tr>
<td>Callahan, Philip J.</td>
<td>Powers, John, 2nd.</td>
</tr>
<tr>
<td>Cobb, Freeman W.</td>
<td>Paine, Richard H.</td>
</tr>
<tr>
<td>Cushing, William</td>
<td>Pierce, Charles Q.</td>
</tr>
<tr>
<td>Coombs, S. Henry</td>
<td>Perkins, Albert W.</td>
</tr>
<tr>
<td>Colligan, Michael B.</td>
<td>Regan, John F.</td>
</tr>
<tr>
<td>Dadmun, W. H.</td>
<td>Richards, Abraham L.</td>
</tr>
<tr>
<td>Drake, Frank H.</td>
<td>Robinson, George F.</td>
</tr>
<tr>
<td>Drew, Atwood D.</td>
<td>Russell, Charles</td>
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<tr>
<td>Dunne, George C.</td>
<td>Roberts, William G.</td>
</tr>
<tr>
<td>Dumphy, Patrick J.</td>
<td>Shipton, Ambrose J.</td>
</tr>
<tr>
<td>Earle, James H.</td>
<td>Sherman, Charles F.</td>
</tr>
<tr>
<td>Edwards, William</td>
<td>Skinner, Hiram D.</td>
</tr>
<tr>
<td>Evans, James D.</td>
<td>Shaw, Linus A.</td>
</tr>
<tr>
<td>Farwell, Wm. E.</td>
<td>Stone, Andrew H.</td>
</tr>
<tr>
<td>Fitch, Austin G.</td>
<td>Stockin, A. C.</td>
</tr>
<tr>
<td>Flanders, David</td>
<td>Stearns, Samuel F.</td>
</tr>
<tr>
<td>Foley, William C.</td>
<td>Tarlton, Lewis B.</td>
</tr>
<tr>
<td>Fuller, Moses</td>
<td>Trickey, Fordyce P.</td>
</tr>
<tr>
<td>Gleason, Samuel S.</td>
<td>Tugman, James J.</td>
</tr>
<tr>
<td>Gavin, Thomas</td>
<td>Tuttle, John W.</td>
</tr>
<tr>
<td>Gardner, Charles B.</td>
<td>Tully, Patrick</td>
</tr>
<tr>
<td>Gregg, George H.</td>
<td>Vahey, James</td>
</tr>
<tr>
<td>Greenwood, Samuel G.</td>
<td>Whitney, Hiram</td>
</tr>
<tr>
<td>Groeschner, A. H. A.</td>
<td>Wiley, L. P.</td>
</tr>
<tr>
<td>Hall, John</td>
<td>Woodward, J. B.</td>
</tr>
<tr>
<td>Hall, Edward C.</td>
<td>Wilson, George L.</td>
</tr>
<tr>
<td>Howard, Frederick H.</td>
<td>Whitcomb, Francis E.</td>
</tr>
<tr>
<td>Hackett, Francis J.</td>
<td>Wiswall, Henry M.</td>
</tr>
<tr>
<td>Hobbs, Nathan</td>
<td>Whitney, Solon F.</td>
</tr>
</tbody>
</table>

Published by order of the Selectmen.

W. H. INGRAHAM. Town Clerk.
ESTIMATES FOR THE YEAR 1887.

For Schools, $25,000.00
Fire department, 5,000.00
Police, 5,000.00
Highways and drainage, 10,000.00
Bridges and culverts, 500.00
Interest on town debt, 1,600.00
Salaries, 3,175.00
Discounts and abatements, 2,000.00
Insurance, 700.00
Free Public Library, with dog tax, 2,500.00
Concrete walks, 750.00
Contingent, 2,000.00
Street lights and lamp posts, 3,400.00
Printing, 650.00
Lighting and care of town hall,
  Painting " 350.00
  Care of cemeteries and gravel for same, 100.00
Isaac B. Patten Post, 81, G. A. R., 200.00
State aid, 500.00
Military aid, 500.00
Removal of ashes, garbage and swill, 850.00
Town improvements, 150.00
Hydrants, 7,200.00
Board of Health, 200.00
Support of poor, 6,000.00
Widening Arsenal street, 500.00

$79,625.00
WARRANT FOR TOWN MEETING.

To George Parker, a Constable of Watertown, Greeting:

In the name of the Commonwealth of Massachusetts, you are hereby required to notify and warn the legal voters of Watertown to meet in the Town Hall on Monday, the seventh day of March next, at 7:30 o'clock, A. M., to act on the following articles, viz:

ARTICLE 1. To choose a Moderator for said meeting.
ART. 2. To choose all necessary town officers for the year ensuing.
ART. 3. To hear the reports of the town officers and of any committees heretofore appointed, and act thereon.
ART. 4. To grant such sums of money as may be necessary for the use and expenses of the town the ensuing year, and for paying a portion of the town debt, direct how the same shall be raised, or act thereon.
ART. 5. To see what method the town will adopt for collection of taxes the ensuing year, choose a collector and fix a compensation for his services, or take any action relating thereto.
ART. 6. To see if the town will adopt the list of jurors submitted by the Selectmen, or act thereon.
ART. 7. To see if the town will authorize the Town Treasurer, under the direction of the Selectmen, to borrow for the use of the town such sums of money as may be necessary in anticipation of the taxes of the current year, and issue the notes of the town therefor, and all debts incurred under the authority of this article shall be payable from said taxes, or take any action thereon.
ART. 8. To see if the town will grant the sum of two hundred dollars to Isaac B. Patten Post No. 81, G. A. R., for the purpose of assisting the Post in defraying the expenses of decorating the graves of deceased soldiers on the next Memorial Day, direct how the same shall be raised, or act thereon.
ART. 9. To see if the town will instruct the Superintendent of Highways to pay the laborers employed by him on town work the sum of two dollars per day while so employed, or act thereon.

ART. 10. To see if the town will instruct the School Committee to establish an evening school, for the instruction of those scholars only who do not attend the day school, or act thereon.

ART. 11. To see if the town will instruct the School Committee, when a vacancy occurs in any public school in this town, to give notice of such vacancy by publishing in the Watertown Enterprise for a person to fill such vacancy, and in making such selection preference shall be given to residents of the town, or act thereon.

ART. 12. To see if the town will adopt the provisions of the Park act so called, to apply the same, as far as possible, to that portion of the Titcomb estate so called, not now occupied for school purposes, or take any action thereon.

ART. 13. To see if the town will accept the provisions, Section 1, Chapter 58 of the Public Statutes, in relation to the appointment of an inspector of provisions and of animals intended for slaughter, or act thereon.

ART. 14. To see if the town will set apart for the burial of soldiers a lot in the cemetery on Common street, or act thereon.

ART. 15. To see if the town will instruct the Superintendent of Streets to put in a drain to take the flow of water from the line of Pearl street to Treadaway brook, or take any action relating thereto.

ART. 16. To see if the town will authorize the Engineers of the Fire Department to place, with the consent of the Hollingsworth & Whitney Company, a fire alarm whistle at the paper-mill, or act thereon.

ART. 17. To see if the town will construct a drain from a point on Arlington street, near East Watertown depot, to the brook that runs past "Sawen's Icehouses," grant money for the same, or act thereon.
ART. 18. To see if the town will purchase the franchise, corporate property, and all the rights and privileges of the Watertown Water Supply Company, agreeable to the provisions of Section 9, Chapter 251 of the acts of 1884, or choose a committee to consult with the Water Supply Company in reference to purchase and sale thereof, and report to the town at some future meeting, or take any action relating thereto.

ART. 19. To give in their votes upon the following question: "Shall licenses be granted for the sale of intoxicating liquors in this town?" The vote shall be by separate ballot, and the ballot shall be "Yes" or "No." In taking this vote the check list must be used, and the ballot must be not more than five nor less than four and one-half inches in width, and not more than six nor less than five and one-half inches in length.

And you are required to notify and warn the legal voters of Watertown to meet at the time and place herein specified by leaving at every inhabited house in town a printed copy of this warrant, and also by posting two or more of said copies in conspicuous public places in town seven days prior to the time of said meeting.

Hereof fail not, and make return of this warrant with your doings thereon, to the subscribers on or before the time of said meeting. Given under our hands this twenty-first day of February, A. D. 1887.

CHARLES BRIGHAM, JAMES F. LYNCH, CHARLES W. STONE, Selectmen of Watertown.
THE

FORTY-NINTH ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF

WATERTOWN,

FOR 1886-'87.

WATERTOWN:
FRED. G. BARKER, PRINTER.
1887.
SCHOOL COMMITTEE.
1886-'87.

DR. J. A. MEAD, Chairman. Term expires 1889.
C. W. STONE, Secretary. " " 1888.
JOSHUA C. STONE. " " 1887.
DR. L. S. SMITH. " " 1887.
DR. M. J. KELLEY. " " 1889.
C. S. ENSIGN. " " 1888.

SUB-COMMITTEES.

Phillips School, Common Street.
Dr. J. A. Mead, Chairman, C. W. Stone, J. C. Stone,
C. S. ENSIGN, Dr. M. J. KELLEY, DR. L. S. SMITH.

Francis School, Mt. Auburn Street.
Dr. L. S. SMITH, Chairman, C. S. ENSIGN, J. C. STONE.

Parker School, Galen Street.
C. S. ENSIGN, Chairman, Dr. M. J. KELLEY, J. C. STONE.

Coolidge School, Mt. Auburn Street. (East.)
J. C. STONE, Chairman, C. S. ENSIGN, C. W. STONE.

Grant School, White's Avenue.
C. W. STONE, Chairman, J. C. STONE, DR. J. A. MEAD.

Spring School, Main Street. (West.)
Dr. M. J. KELLEY, Chairman, C. W. STONE, DR. L. S. SMITH.

Bemis School, Etwa Mills.
Dr. M. J. KELLEY, Chairman, C. W. STONE, DR. L. S. SMITH.

Lovell School, Orchard Street.
J. C. STONE, Chairman, Dr. L. S. SMITH, DR. M. J. KELLEY,

Finance and Repairs.
C. W. STONE, Chairman, J. C. STONE, DR. M. J. KELLEY.

Text Books, Music and Drawing.
C. S. ENSIGN, Chairman, Dr. J. A. Mead, DR. M. J. KELLEY.

Nomination of Teachers.
Dr. J. A. Mead, Chairman, C. W. STONE, C. S. ENSIGN.

Superintendent,
GEORGE R. DWELLEY.
Office; Town Hall. Office Hours; Tuesdays and Thursdays
from 3:30 to 4:30 o'clock, p. m.
Watertown, Mass., Feb. 8, 1887.

In School Committee, Voted, That the Chairman’s Report of this date be accepted and adopted as the Annual Report of the School Committee to the Town, and to accept and print for distribution the Report of the Superintendent of Schools.

Attest: CHARLES W. STONE,
Secretary.
CHAIRMAN'S REPORT.

To the Members of the School Committee:—

In accordance with the custom of former years, a brief review of the school work for the year is presented, and the needs of the coming year anticipated. For particulars your attention is called to the Superintendent's Report.

During the year the Board lost through resignation the valuable services of Mr. Richards and Rev. R. P. Stack. Both gentlemen, by reason of long service, special aptitude and sound judgment, were well fitted to fill an important place on the School Committee.

The present year has not been without changes in the corps of teachers. Miss Morey resigned to accept a position in Brookline. She was succeeded by Miss Parsons, who was transferred from the Spring school. Miss Parsons' skill in teaching has kept the Grant Primary at the high standard of excellence that it attained under Miss Morey.

Miss Minnie O'Brien, of Clinton, an experienced teacher, was engaged to teach in the Spring school. She is teaching this school to the entire satisfaction of the Committee.

Miss Chandler and Miss Johnson of the Parker school resigned to accept positions offered them in Cambridge. Miss Susan M. Thacher, for several years a successful teacher in Clinton, was engaged to teach in the school formerly taught by Miss Chandler. The school at present is in very good condition. The vacancy caused by the resignation of Miss Johnson has not yet been filled by a regular teacher. Miss Davis, who had earned a well-deserved reputation as a teacher in Leominster, was elected to the Parker Primary. This school is in a very satisfactory condition.

It is gratifying to be able to state, that all the upper Grammar grades, excepting the Coolidge, have been consolidated into one,
CHAIRMAN'S REPORT.

Educationally and financially this consolidation had much to recommend it. Better facilities for learning could be offered at a less cost. Last year the Francis and Spring Grammar were united, but for several reasons the Parker was not included in this arrangement. The committee this year, after mature deliberation, and with the consent of the parents, incorporated the Parker Grammar with the Grant Grammar. The success of this school during the last six months is a sufficient justification for the change.

Mrs. Campbell was put in charge of the Francis school to fill the vacancy caused by the resignation of Miss Packard. It was decided that the assistants at the Grant school should be ladies; and, therefore, Mr. Doland's entirely satisfactory services were dispensed with. Miss Hall is at present teaching in Mr. Doland's place, and is adding to the excellent reputation she won at Lexington. Miss Burbank has taken Miss Packard's school at the Lowell, and is successful.

The Committee of 1885 voted that none but experienced teachers should be employed. The present Committee have recognized the wisdom of that vote, and have carried out its provisions in every case. The success of a school depends so largely on the teachers that their election is the most important duty intrusted to a school committee.

The Committee desire to thank Hollingsworth & Whitney for blowing the storm signal twelve times during the year.

The position of substitute teacher, after remaining vacant several months, was filled by Miss Ida E. Miner, who has been very successful in this difficult position. The importance of having a thoroughly educated and competent teacher who can go into a school where a regular teacher is unavoidably absent, and carry on that school with the minimum amount of friction has been conclusively demonstrated on several occasions.

The salary of the teachers in the Primary and Lower Grammar grades should be increased fifty dollars. At present the maximum salary is $500 in the Primary, and $450 in the Grammar. It
is unwise to allow our experienced teachers to leave, as has been the case in several instances, when an increase of fifty dollars would retain them. Even when this increase is made we are paying fifty to one hundred dollars less than our neighbors.

Instruction in music should be extended to include the Primary grades. At present there is no systematic instruction given in these grades. Either the present teacher should devote more time to the Primary grades, or, if this is impossible, an assistant should be appointed. Either course is attended by increased expense.

The experiment of having the principal of the High school act as superintendent, is from the very nature of things not an unqualified success. It is unwise to combine in one person the duties of two offices, either of which requires the undivided attention of its incumbent. As superintendent, the present principal has done good service, for which he should receive full recognition. The employment of a superintendent necessitates an additional expense of fifteen hundred dollars.

JULIAN A. MEAD, Chairman.
### REPORT OF FINANCE COMMITTEE.

**Expenditures for Schools for the Year ending January 31, 1887.**

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<thead>
<tr>
<th>Description</th>
<th>Appropriations</th>
<th>Amount expended</th>
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<tbody>
<tr>
<td>Salaries of Teachers and Superintendent</td>
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<td>$18,257.75</td>
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<td>&quot; &quot; Janitors and Truant Officers</td>
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<td>1,608.23</td>
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<td>Text Books and Stationery</td>
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<tr>
<td>Fuel</td>
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<td>1,050.92</td>
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<td><strong>Total appropriation,</strong></td>
<td><strong>$25,000</strong></td>
<td><strong>$24,779.89</strong></td>
</tr>
</tbody>
</table>

- **Town's share of school fund,** 74 12
- **Rent of room in Bemis School,** 25 00
- **Sale of old boards,** 3 50

**Amount unexpended,** 322 73

C. W. STONE,  
J. C. STONE,  
M. J. KELLEY,  

*Finance Committee.*

### Estimates for Appropriations for 1887-'88.

<table>
<thead>
<tr>
<th>Description</th>
<th>Appropriations</th>
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<tbody>
<tr>
<td>For Salaries of Teachers and Superintendent,</td>
<td>$19,500</td>
</tr>
<tr>
<td>Salaries of Janitors and Truant Officers,</td>
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<td>Text Books and Stationery,</td>
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<td>Repairs and Incidentals,</td>
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<tr>
<td>Fuel,</td>
<td>1,100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$25,500</strong></td>
</tr>
</tbody>
</table>
SUPERINTENDENT'S REPORT.

To the School Committee of Watertown:—

Gentlemen,—In obedience to your request, the Superintendent herewith respectfully submits to you—and through you to the citizens—his fourth Annual Report.

He speaks briefly of things done, and less briefly of things desired and desirable, quotes authorities and principles, and endeavors to take his educational observations from the box and not from the rumble.

In all the work of the year he has seen a united effort to hold fast to the good in possession; where loss was inevitable—through suitor or foreign superintendent—to replace with the best your resources could procure; and, by improved classification, the use of better methods and appliances, and the fuller development of plans laid in the past, to raise the standard of the schools.

The policy of Grammar school consolidation has been carried to its limit, new schools have been organized, the field of view in schools already established has been in some instances and in important particulars enlarged, the means of objective teaching increased, and the sight singing of new music, individual singing and class singing without accompaniments, given a larger place in the instruction in music than heretofore.

Of the thirty-one teachers now employed by Watertown, eight were not in her schools at the date of the last Report. Three of these eight occupy newly created positions; the other five take the places of teachers who have resigned. One resigned because of intended marriage; a second, because a consolidation of schools made a less expensive teacher a satisfactory substitute; and the remaining three, because of the attractiveness of the foreign Superintendent.
Important Acts of the Year.

Among the things done to improve the organization and efficiency of the schools, and to enlarge their usefulness, the following have been selected as especially worthy of mention.

(1.) The division of the school year into two terms of twenty weeks each.

Hereafter, the first term will open on the first Monday in September, and will continue — interrupted, however, by a two days' recess at Thanksgiving, and a week's recess at Christmas — until near the end of January. A week's vacation will separate the terms in midwinter. The second term will open early in February, and will continue — interrupted only by a two days' recess in Fast week — until near the end of June. There will be ten weeks of vacation in midsummer.

Permits for first admission to the schools will be issued only in the months of September and February.

The old distribution of school time was into three terms, — respectively of fifteen, thirteen and twelve weeks. This arrangement was unsatisfactory, partly because it compelled the teachers in eleven of the thirteen grades to distribute the work of the year into unequal and yet proportionately difficult divisions, and partly because it interfered with the plan of monthly examinations now in such general use. Further, in the two lowest grades, — the grades which contain the largest number of pupils of any of the grades, — the old distribution of time was seriously detrimental. Promotions in these grades occur twice a year, and after the accomplishment of a half year's work. But the class admitted in April had only twelve weeks in which to complete this work, while the class admitted in September had twenty-eight weeks. As a necessary consequence, the April class was imperfectly fitted for promotion, and the September class was refused promotion even when thoroughly fitted. All these defects are remedied by the new apportionment, and this apportionment has the additional advantage that it enables the committee, in their annual Report at the end of the financial year, to describe the reviewed and completed work of the first half of the school year.
SUPERINTENDENT'S REPORT.

School Calendar for Two Years.

1886-'87.
First Term opened Sept. 6, 1886. Closed Jan. 28, 1887.
Second " " Feb. 7, 1887. Will close June 24, 1887.

1887-'88.
First Term will open Sept. 5, 1887. Will close Jan. 27, 1888.
Second " " Feb. 6, 1888. " " June 23, 1888.

(2.) The reorganization of the schools in the South. The crowded condition of the Primary department in the Parker building compelled a change of some sort. As a first step, the three highest classes in the Grammar grade were transferred to the Grant school, and incorporated with the corresponding classes in that school. Three rooms were thus secured for the accommodation of the six lowest grades. A new Primary school was then established, and filled with pupils of the lowest grade; the next higher school received three grades; and the school of highest rank, two grades.

The necessary basis of distribution was the number of pupils in the several grades.

(3.) The establishment of another Primary school of the second grade in the vacant room of the Francis building. As illustrating the growth of this part of the town, it may be said that the new school has forty-two pupils, while the school from which it was a colony still has forty-four pupils.

(4.) The transfer of the fifth Grammar grade of the Lowell school to the same grade in the Francis school. This transfer is a double benefit. It gives to the class which has been transferred the more thorough instruction of a single grade school, and it gives to each of the classes still remaining in the Lowell school a larger share of the teacher's attention.

(5.) The establishment of a Training-School for teachers. Under conditions imposed by the committee, young ladies now enter the schools as pupil-teachers. They act as unpaid assistants, and find their compensation in the example and guidance of the regular teachers and the practice permitted to themselves.
A conviction of the value of such training has already attracted three apprentice teachers to your schools. But the probable benefit to these apprentices was a secondary purpose in the establishment of the school. The school found its reason for existence in the postulate that two teachers would be better than one, and that in these assistants was an educational help hitherto unemployed. Experience justifies expectations, and the testimony of the regular teachers is strongly and unanimously in favor of the widest possible use of this agency.

(6.) The employment of a substitute teacher to keep the schools from interruption through illness or other cause. Though the post of substitute teacher was created by last year's committee, yet, through the unwillingness of competent teachers to fill it, November of the current school year had arrived before the substitute actually began work. The need of such a teacher is easily shown. It has long been a part of the educational policy of your committees to encourage visits by your teachers to the best schools of the vicinity for the examples of good teaching they may witness and the emulation such example may arouse. Hence, each of the twenty-five Primary and Grammar teachers has twice a year closed school for such visits, — making a total of fifty days' absence from this single cause. The aggregate of absences from illness will average about the same number of days. Here are one hundred days of absence — or half the time of one teacher — plainly foreseen. Again, the teacher who resigns her school for a better-paid position elsewhere is oftentimes forced — if she go at all — to give a very short notice. Now, as no other act of the School Committee compares in importance with the employment of a new teacher, time for sufficient inspection of the schools of candidates is indispensable. In the vacancy which ensues the substitute becomes provisional head of the school for such period as the Committee may direct.

When not occupied in any of the above ways the substitute will act as associate teacher in some difficult school. During the current school year, she has thus assisted in the Spring Grammar of
the fourth and fifth grade,—a school whose two classes number respectively twenty-seven and twenty-eight pupils.

(7.) The purchase of additional material for objective teaching. The largest expenditure was for drawing models, folding-globes, and wall maps to be used in the geography-studying schools, but a great variety of articles went to the Primary department. These articles include Appleton's Reading Charts, dry and liquid measures, yard-sticks, metres, weights, clock-dials, counting blocks, modelling clay, toy money, drawing cards, stencils for blackboard sketches, colored crayons, etc. The need of this material was great, and of the folding-globes and wall-maps, very great. Many of the old maps had become completely worthless through long continued service, and others that were still perhaps capable of use represented geographical conditions of a quarter of a century ago. Each of the five buildings in which geography is taught to several grades now has a set of seven maps, and the Lowell school, in which there is one geography class, has a set of three. The maps purchased are (1) The World—Mercator's Projection; (2) North America; (3) South America; (4) The United States; (5) Europe; (6) Asia and (7) Africa. It is desirable to add to these in the coming year (8) Australasia; and (9) New England, in order to secure a good map of Massachusetts. The folding-globes take the place of maps of the hemispheres.

(8.) The introduction of Sewing as a part of a girl's education in the three lower Grammar grades. One lesson a week—of an hour in length—is now given by the regular teachers as a practice exercise in this household art. The girls furnish their own material. A capable seamstress plans the work in advance in accordance with a "step by step" scheme of instruction approved by experience elsewhere. The successive and progressive steps are outlined to the teachers in the monthly grade meetings. This is the best that can be done until a special Teacher of Sewing shall visit and instruct the several schools somewhat as the Drawing Teacher now does.
(9.) The addition of a second year of work to the Course of Study of the Advanced Grammar school. The entire course is now as follows:

**First Year.**

1st Study. Business Arithmetic. Throughout the year.
2d " Double Entry Book-keeping. 3 lessons a week.
   Industrial Drawing. 2 hours a "
3d " English Grammar. One half of the year.
   Rhetoric. " " " " "
4th " Physical Geography. " " " " "
   English History. " " " " "

**Second Year.**

1st Study. Surveying. One half of the year.
   Civil Government. " " " " "
2d " Double Entry Book-keeping. 3 lessons a week.
   Industrial Drawing. 2 hours a "
3d " Rhetoric, and "How to Write Clearly." One half of the year.
   The Study of Words. " " " " "
4th " Physics. Throughout the year.

The class which enters the school next September will have, it is hoped, besides the above, a course of forty lessons of two hours each in Wood-Work and the use of Wood-Working Tools.

**Recommendations Respecting the Future.**

(1.) One hundred dollars is needed to continue the purchase of reading charts, music charts, and other appliances for the improvement of the Primary schools.

(2.) One hundred dollars is needed to continue the purchase of wall maps, drawing models, and other appliances for the improvement of the Grammar schools.

According to modern views, common school education starts from postulates somewhat like these:
(a) "Knowledge is most effectually conveyed to children through the medium of the eye."

(b) "The elements of all kinds of knowledge must be taught in connection with objects."

Unquestionably, the most successful teaching is objective, and objects, pictures of objects, models, cabinets of woods, minerals, etc., and simple apparatus for the establishment of principles through experiments, are essential parts of the complete equipment of every school building.

Every year should witness additions to these educational helps, and every year's appropriation should as definitely include a sum set apart for outlay of this sort as for repairs or the salaries of teachers.

(3.) The belief is now pretty wide-spread among educators, — both in this country and abroad, — that manual training is as essential a part of the work of the schools as mental training. President Gilman, of the Johns Hopkins University, conceives the following things to be fundamental in education:—

"(a) Kindergarten work should be taught in all nurseries and infant-schools.

(b) Every girl should learn to sew, and every boy should learn to use domestic tools — the carpenter's, or gardener's, or both.

(c) Drawing should be taught as early as writing, and as long as reading, to all and everywhere."

Already to a very considerable extent in your schools, hand-craft accompanies head-craft. In your lowest grade Primaries, such kindergarten exercises as stick-laying, mat-weaving and modelling in clay have a recognized place. Sewing is taught to the girls during three years of the Grammar school course. Writing is taught for nine years, and Drawing for thirteen years, "to all and everywhere." But as yet, tool-practice has nowhere been introduced. It is now recommended that, at the opening of the next school year in September, instruction in wood-work and the use of wood-working tools be given to boys as a part of
the Advanced Grammar school course, and that the sum of $100
be appropriated to defray the cost of tools, materials and instruc-
tion. It is believed that for this sum, one lesson of two hours in
length can be given in each of the forty weeks of school session.
The basement of the Grant school will furnish a satisfactory
work-room, the Instructor in Wood-Work at the Institute of
Technology has pledged a year's scheme of work for beginners,
friends of industrial education have published a text-book on
"Wood-Working Tools and How to Use Them," and the jani-
tor of the Grant building will make a perfectly competent teacher.
(4.) One hears at times the remark that the schools are be-
coming more and more expensive. In this connection it will, of
course, be remembered that Watertown is rapidly growing, and
that, if her population were to double, the outlay for schools
would, of necessity, keep pace with the growth in population.

For ten years previous to 1882, the number of children of
school age—though changing somewhat from year to year— re-
ained stationary. But in 1882 growth began, and for this rea-
son that year is selected as the starting-point in the following
comparison:—

In 1882, the children between five and fifteen years of age num-
bered 882. In 1886, the children between the same years num-
bered 1,091. Here is an increase in numbers of 24 per cent.

In 1882, the expenditure for schools was $19,200. In 1886, it
was $24,780. Before the percentage of increased cost is reck-
oned, it will be necessary—if the comparison is to be a fair one
—to deduct from the expenditure in 1886, such items of outlay as
were not a charge against the schools in 1882.

These items are first, $1,000 for fuel, which has for the last two
years only become a charge against the school appropriation;
second, $200 for stationery, at present gratuitously supplied to
the schools in obedience to a recent State law; third, $300 for wall-
maps, folding-globes and other apparatus much needed in the
Primary and Grammar schools; and, fourth, $200 for the salary
of the substitute teacher during the last four months of the finan-
cial year.
These items represent a total of $1,700 expended in 1886 for causes not charged to the schools in 1882.

Hence, $23,080 is the outlay of 1886 to be put in comparison with the outlay of 1882, and is about 20 per cent. of increase.

Briefly, the children to be educated have increased 24 per cent. while the cost of educating them as heretofore has increased but 20 per cent.

This relative diminution in cost is mainly due to the consolidation of three Grammar schools into one within the past two years. The pecuniary benefits of such consolidation have been somewhat obscured by an advance in the salaries of teachers in the six lowest grades; that is, in the grades where the largest numbers are reached, and the most elementary instruction given.

It needs, however, to be said, that without this advance, four of the new teachers secured for these grades within the last year — including such admirable additions to your corps as Miss O'Brien, Miss Davis and Miss Parsons — could not have been obtained, and you would have lost Miss Patten of the Phillips Primary.

But the salaries in these grades are still insufficient to attract and retain teachers of the quality you should have. The recommendations which follow are substantially those of a former Report. Another year's experience has but intensified the convictions out of which these recommendations originally grew. It is urgently recommended that the salaries of teachers in the six lowest grades — with four exceptions — be advanced from a maximum of $450 to a maximum of $500, and that salaries in the four single-grade Primary schools for beginners be advanced from a maximum of $500 to a maximum of $550. The highest sums here suggested are fifty dollars a year less than the maximum paid to all the grades in Newton, Cambridge, Somerville and other places with which it is your misfortune to be compelled to compete. And it must not be forgotten that the cost of living in Watertown is considerably greater than in the communities to which you go for your recruits; and that your offers are repeated-
ly refused because they represent to teachers no improvement in condition. In illustration of the frequency of such refusals, it is well for you to know that in the past year an offer was made to seven different teachers before a particular vacancy was filled. In towns where salaries are $400 a year,—and few towns with good teachers pay less,—board, laundry service, fire, lights and a separate room for study will cost an average of $4.00 a week; while in Watertown the same essentials of a teacher's life cost $5.00 a week. Now, as long as salaries in Watertown are limited to $450 a year, what teacher—whose income elsewhere is $400—for an advance of $10, will sunder the ties which bind her to a town in which she is already successful to encounter the risks of an unknown school? The writer is forced to confess that teachers are now secured by the representation that the Superintendents of the neighborhood see in Watertown a favorite "hunting-ground," and that the teaching of a superior school in Watertown is a well-placed advertisement of the skill and capacity requisite for a better-paid position over the border.

The Superintendent is aware that it may be said in reply to the above, that the cost of the schools is already great, and that Watertown is unable to pay more than she now pays. But let us see where she stands in the county,—with what towns associated, and by what towns surpassed,—when ranked according to the percentage of her taxable property appropriated for educational uses. The figures of 1885–'85 are taken from the Report of the Secretary of the Board of Education for the reason that those of 1885–'86 are not yet accessible:
PERCENTAGE ON THE $1.00 PAID FOR SUPPORT OF SCHOOLS
IN THE TOWNS AND CITIES OF MIDDLESEX COUNTY.

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<td>1</td>
<td>Marlborough,</td>
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<td>28 Framingham,</td>
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<td>2</td>
<td>Natick,</td>
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<td>29 Medford,</td>
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<td>42 Tewksbury,</td>
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<td>17</td>
<td>Westford,</td>
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<td>Malden,</td>
<td>3-30</td>
<td>53 Stow,</td>
</tr>
<tr>
<td>27</td>
<td>Lexington,</td>
<td>3-25</td>
<td>54 Groton,</td>
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</tbody>
</table>

The table shows that Watertown was forty-fourth among the fifty-four towns and cities of the county; and, it may be added, she was two hundred and ninety-third among the three hundred and forty-seven towns and cities of the State. Her rank to-day is better than that shown in the table; but she can pay the figures recommended without rising above a middle position in the scale.

The Organization, Condition and Aims of the Schools.

There are now thirteen schools in which Primary work is done, — or two more than last year. Nine of them are of a single grade; and four contain three grades. The Bemis and the Coolidge have alike the three Primary grades; the Parker Prima-
ry of higher rank has the second and third Primary and the sixth Grammar: and the Lowell contains the first and third Primary and the sixth Grammar. At the time of the last Report, the Lowell had five grades,—the three Primary and the sixth and fifth Grammar. Permission was early given to the fifth Grammar to unite with the corresponding class in the Francis school; and, by reason of exceptional proficiency, the second Primary was incorporated into the first.

This reduction of the Lowell to a school of three grades, the separation of the Parker Primary into two schools, and the subdivision of the second grade at the Centre into two schools constitute the improvements of the year in the classification of the Primaries.

Wherever organization is perfected, the intellectual movement of the schools is quickened. Some betterment in the quality of Primary work is due to this cause, but much more is due to the influx of new and powerful streams of force. While the main body of your Primary teachers continues as heretofore—and their efficiency and earnestness are now afresh acknowledged—the changes and additions of the year have contributed to raise the average excellence to an unwonted height. You have lost one teacher, it is true, who was perpetually opening windows into the minds of her pupils, but you have gained three as eager as herself to admit the fructifying light. Within the year two of the three have received from different Normal schools the offer of the position of "Model Teacher of Primary Work" in those schools.

What your good fortune has won, it is hoped your wisdom will retain.

Dropping from consideration the mixed schools described with the Primaries, there are nine Grammar schools and an Advanced Grammar School. The three Francis schools and the Spring school of lower rank are schools of a single grade; the Spring of higher rank and the Parker are each of two grades; and the two Coolidge and the Grant are respectively of three grades.

In September the three highest grades were taken from the
SUPERINTENDENT'S REPORT.

Parker school and consolidated with the Grant. In its effects upon those who were taken and those who were left, this change must be reckoned one of the most beneficial acts of the year. It gives to the transferred pupils the services of three teachers instead of one, and the opportunity of association and self-comparison with many in place of few; and it has allowed the six grades left behind to expand into three schools. Viewed as a whole, it gives to the nine grades of the South the services of six teachers in place of three.

It is believed that the Grammar schools were never before in so good condition as at present. The great changes in organization, planned and carried into effect during the last two years have thus far brought benefits only in their train.

The Advanced Grammar School — whose course of study is elsewhere given — is not yet patronized as it deserves to be. In the following outline of things attempted and accomplished in a single department, the Drawing-Teacher gives a glimpse into its work:

"The pupils of the Advanced Grammar class are studying drawing in the three directions of construction, representation and decoration. In construction they make working-drawings, from which any intelligent mechanic could construct the objects required, beginning with such simple things as a cylinder or a flight of steps, and advancing till they can make working-drawings of pulleys, bolts and tools of various kinds. They have made drawings for the joining of timber by halving, and mortise and tenon; then have actually made such joints in wood to correspond to their drawings. They have learned to work from patterns; first, making a drawing of the object, then, constructing it from pasteboard or paper. In the direction of representation, they learn the effects of distance and position on the appearance of objects, and draw directly from the objects taken singly and in groups, expressing in outline what they see before them. In decoration, they are taught to conventionalize natural forms and
adapt them to the purpose of decoration, sometimes drawing directly from the natural flowers and leaves."

A comparison of the plan of this school—as shown in its Course of Study and in the recommendations of this Report—with the plan of the High school will lead, it is thought, to conclusions like these.

For the boy who has completed the regular Grammar school course, and who has but two years more to spend in school, the Advanced Grammar will give a better training in the "bread-and-butter" sciences than will the first two years in the High school; but, for the boy who has a love of books and can give four years more of his youth to study, or who wishes to fit for college, or the Institute of Technology, the High school is the better place. And for the pupil who has with difficulty mastered the demands of the Grammar Course, it will be the wiser policy to spend a year in the Advanced Grammar before facing the exacting duties of the High school. Lastly, for all without a definite purpose to do intellectual work and a definite purpose in such work, that school will be best which disciplines most in the manual dexterities and prepares for bodily toil in shop, or kitchen, or street.

There is little needful to be separately said of the High school. As heretofore, it seeks to widen the intellectual outlook, to inspire or strengthen worthy ambitions, and to open the road not to a living, but to a life.

Within the year, two of its graduates have passed the preliminary examinations for admission to Boston University, one has been at a Normal school, and three are in your Training-School. One has become a teacher, another has entered the Institute of Technology, and two have been admitted to Boston College. One has engaged in the study of Law.

French History has been added to its list of studies, and the "Two Years' Course" will be eliminated from its constitution in June. This course had its origin in a well-meant endeavor to give a business education to boys with a limited time for study; it has been helpful to many in the years of its continuance; and the
Advanced Grammar has already become the inheritor of its policy and its pupils.

Recent changes in the terms of admission to Harvard College will compel the introduction of the study of German,— whenever requested,— and such a reconstruction and extension of laboratory appliances as will allow students to perform as well as to witness experiments in Physics and Chemistry.

The aims of the schools will in part appear in the following summaries; but, as teaching is a spiritual process, much of what is best in it eludes the grasp of a synopsis. Further, its work is always along unmentioned lines of resistance, as well as along the familiar highways of progress.

The Primary schools give—or should give—to the average child "(1) ability to read easily at sight any piece in an ordinary Second Reader; (2) ability to write a clear and legible hand; (3) ability to frame his thoughts in simple, yet correct language both spoken and written; and (4) ability to perform all separations and combinations up to 144."

The Grammar schools give—or should give—to him the following possessions and powers: (1) so much of arithmetic as will enable him to solve at sight the ordinary problems of business; (2) an intelligent acquaintance with the geography and history of his own country, and some knowledge of the world at large; (3) the ability to write off-hand and with fair penmanship a letter or other simple composition, correct in form, spelling and language; (4) the ability to communicate his thoughts in natural, unstudied speech; (5) the ability to read easily and expressively at sight, newspaper, book, or magazine; (6) a fondness for general reading, and a working interest in at least one intellectual pursuit.

The High school gives—or should give—(1) so much of Algebra and Geometry as will enable a young fellow to enter on a good footing a civil engineer’s office, or any technical school; (2) enough of practical knowledge of Business Arithmetic and Double-entry Book-keeping to fit for the work of book-keeper in
an ordinary business, or of assistant book-keeper in a large one, or for the intelligent oversight of such work in one's own affairs; (3) a satisfactory comprehension of the leading principles of physical and natural science, as illustrated in Physiology, Botany, Physics, Chemistry, Physical Geography, Geology and Astronomy; and some training in the methods of investigation and reasoning, peculiar to them; (4) some knowledge of the great republics of antiquity, and an acquaintance with the history of England and France; (5) such a command of the resources of our mother tongue as comes from the critical examination of many of its master-pieces, from much practice of essay-writing in it, and from a four years' study of its discriminations, its modes of growth, and its capacities as an instrument of expression; (6) enough of Latin, Greek and French to secure admission to Harvard College; and (7) something of grace in style, something of power in thought, and something of poise in character.

In actual results, not a few deductions must be made from the above. All the schools are deteriorated by frequent unnecessary absences for the whole or part of a school session; by the promotion of children unfitted for advancement, when promotion out of a grade seems a less evil than a Rip Van Winkle continuance in it; and by such unwise indulgence elsewhere as makes school-work and all work distasteful everywhere.

Some of the Qualifications of the Teacher.

Less than a hundred years ago, a knowledge of the subjects studied in the schools was deemed a sufficient guarantee of fitness for teaching. Fortunately, this view is now nearly extinct. The Normal schools have done their not least valuable service to education in the persistence with which, from the first, they have taught the importance of method, and, more recently, the necessity that methods should be intelligently founded upon principles. "Another sun risen at mid-noon" shines for the teacher who does his work in obedience to well-understood psychological laws.
In the following summary of a part of the teacher's qualifications, the authority of two very eminent American educators has been invoked. 'What is said prior to the definition of educational science is condensed and adapted from the works of W. H. Payne, Professor of Pedagogy in the University of Michigan, and the definition of educational science itself is similarly taken from Dr. William T. Harris's commentary upon Rosenkranz's "Philosophy of Education."

It is not expected that teachers in the Primary and lower-grade Grammar schools will have a wider knowledge of these subjects — excepting, of course, method, psychology and educational history — than usually accompanies a liberal education; but a special knowledge of them all seems not too much to expect from the teachers in such schools as the Grant, the Advanced Grammar and the High.

"The three elements of a teacher's professional education are scholarship, knowledge of methods, and acquaintance with educational science.

(1.) Of these elements preeminent importance should be assigned to scholarship. First of all, the teacher must be a scholar, and no part of his preparatory education must be conducted at the expense of scholarship. He should have some sensible degree of literary culture, one indication of which is a pronounced love of good books. As indicating the breadth of the scholarship requisite, this rule may be given: The teacher should know considerably more than he is expected to teach. For, if compelled to work nearly up to the limits of his knowledge, he loses his self-respect, and so misses the necessary support of moral courage; a clear perspective can be gained only from a considerable eminence; the parts of the educating process that fall within the province of the individual teacher should be seen as they are related to a comprehensive whole; and, perhaps more than all else, a teacher cannot create among his pupils an inspiration after higher attainments, unless his own example is an open invitation to covet the best gifts."
But something besides scholarship is needed for success in teaching. That something is trained skill. The teacher must know not only the subjects he is to teach, but also the best ways by which these subjects may be taught. *He must have a mastery of methods.*

Now, method may be consciously learned by observation of the work of any skillful teacher, or in the informal, almost unconscious way which makes every good school — for those who are trained in it — a Normal school.

Again, method may be taught by dictation, as when we read books on pedagogy, or listen to lectures on the art of teaching; that is, we are advised or directed to follow certain rules or processes on mere authority. This mode of procedure is exposed to all the objections that lie against the use of rules. Rules, we know, do not take into account quantity, quality, time or place. They leave little or no liberty of choice, and so do not cultivate versatility. But the aggregate of such instruction may result in the formation of an ideal, more or less clear and adequate, of the school and its mode of administration. *And, if we were to choose between a rule-taught teacher and one who knows neither principles of teaching nor exact method, we should not hesitate to select the former.* Mechanical positiveness is incomparably better than ignorant uncertainty.

Lastly, method must be studied with reference to its underlying principles. The value of a method depends on its conformity to predetermined laws of thought. Careful deductions from this fundamental truth that the mind moves from the whole to parts and from the confused to the definite, would rationalize half the processes of the schoolroom. Condillac said, ‘There is nothing in pedagogy that is not derived from psychology.’ Indeed, there is as good reason why a teacher should have an articulate knowledge of psychology as there is why a physician should have such a knowledge of physiology. If the latter should know the interdependence of lungs, stomach, liver and brain, the former
should know the interdependence of sensation, perception, imagination, memory and judgment.

The strictly professional studies of the teacher are psychology and educational history. He should study the history of education, because it guards him against the repetition of mistakes, because it transmits to him, as an enriching inheritance, the capitalized experience of educators from Socrates to Froebel, and because it determines for him the direction and velocity of educational progress. And if future progress is to be by intention and not by instinct, and along the shortest road to an ideal end, psychology must be the head-light that shall disclose and illuminate the track.

(3.) But the study of mind to discover the rational basis of method is the study of a very important department of the science of education.

This science is not a science complete and independent by itself. It is rather a composite science, and has its presuppositions in several others. It presupposes the science of anthropology in which is treated the relation of the human mind to nature. The history of the individual and the history of the race present to us a record of continual emancipation from nature, and continual growth into ability on the part of man to know himself and to realize himself in the world by making its matter and forces his instruments and tools. Anthropology shows us how man as a being with a body is limited. There is climate, involving heat and cold and moisture, and the seasons of the year; there is organic development, involving birth, growth and decay; there is race, involving the limitations of heredity; there is the emotional nature involving feeling, passion and instinct, and there are the five senses and their conditions. Next, there is the science of phenomenology, treating of the steps by which mind rises from the stage of feeling and sense-perception to that of recognition of itself as true substance, and of matter as mere phenomenon created by Mind. Then follows psychology, with its treatment of attention, imagination, memory, understanding, reason, and
the like. After psychology, there is the science of ethics, or of morals and customs; then, the science of rights, treating of the institutions of the family and civil society, as well as of the state; then, aesthetics, with its treatment of beauty, as exhibited in style, music, poetry, the plastic arts and those that offer visible shapes; then, theology, or the science of religion; and, after all these, philosophy, or the science of science. Now, it is clear that the science of education treats of the process of development, by and through which man, from a mere animal, becomes spirit, or self-conscious mind; hence, it presupposes all the sciences named, and will be defective if it ignores nature or mind, or any stage or process of either, especially as shown in anthropology, phenomenology, psychology, ethics, rights, aesthetics, religion, or philosophy."

**Principles of Teaching.**

It was stated in the introduction to the topic just concluded, that the best teaching is intelligently based on fundamental educational truths. The truths which follow have been taken from White's "Elements of Pedagogy,"—a work which, though not published till September, 1886, has already been adopted as a text-book in every Normal school of New England.

I. "Teaching, both in matter and method, must be adapted to the capability of the taught. The study of educational science gives a more perfect acquaintance with these capabilities.

II. There is a natural order in which the faculties of the mind should be exercised, and the corresponding kinds of knowledge taught.

This order is (1) the exercise of the presentative powers,—consciousness, sense-perception and intuition, or the power to know directly and immediately the necessary relations of objects; (2) the exercise of the representative powers,—memory and imagination; and (3) the exercise of the thought powers,—conception, judgment and reason. Briefly, the movement is from sense activity to reasoning through the activity of the intermediate
powers. This principle has been specialized in such maxims of elementary teaching, as, Observation before reasoning, The concrete before the abstract, Facts before definitions or principles, Processes before rules, From the particular to the general, From the simple to the complex, and From the known to the related unknown.

III. A true course of instruction for elementary schools cuts off a section of presentative, representative, and thought knowledge each year.

In that educational classic, "The True Order of Studies," Dr. Thomas Hill compares a true course of study to a spiral stairway, surrounding the five great columns of human knowledge, and cutting off a section of each at every round of its ascent. A true course of study not only cuts off a section of all the great branches of knowledge each year, but each section includes presentative, representative, and thought knowledge and activity. In its progress through each annual cycle of its ascent, school instruction passes from sense knowledge to thought knowledge, since the natural movement of the mind in all stages of its activity is from sense to reason.

IV. Knowledge can be taught only by occasioning the appropriate activity of the learner's mind.

V. The primary concepts and ideas in every branch of knowledge must be taught objectively in all grades of school.

VI. The several powers of the mind are developed and trained by occasioning their natural and harmonious activity.

VII. In the teaching of any school art, clear and correct ideas should inspire and guide practice.

VIII. Whatever knowledge is taught a child should be so taught that the act of acquiring it shall be of greater value than the knowledge itself."

Music and Drawing.

(1.) One needs not to be a musician to discover that music is a language. At church, alike with prayer and sermon, it ex-
presses devotional feeling; and at the opera, as powerfully as novel or tragedy, it tells the story of pathos or passion. Hence, in general ways at least, the methods of teaching it should correspond to those in use in teaching reading, writing and the other arts of expression. If much reading at sight is essential to secure fluency in reading,—and it is,—it seems sound reasoning to infer that much singing at sight will be equally helpful in securing readiness in singing. And if the teacher of writing does not perpetually trace the letters as a model upon which the child's hand shall superpose still heavier lines, but seeks instead to fix in the mind an idea of the forms, and to train to the independent use of the pen, it seems good teaching of music to strive to make the notes of the scale and all needful intervals of tone a mental possession, and to drill upon them till correct reproduction is attained without the support of instruments or the powerful voice of a leader. And if, in the teaching of every other school study, it is reckoned the gravest possible fault to put into the questions what is to be brought out in the answer, it seems no less a fault for teachers of music, through the accompaniment as a prompter, habitually to put into the mind of the child the sounds desired from the child in return.

What is now expected in music is that in every grade children will be taught to sing at sight any music suited to the grade, and that—with the key-note given—they will be able to sing such music independent of instruments and of one another. In several of your schools—whenever desired—any child will sing his music exercise alone, just as he reads or recites a lesson, and with no more thought that he is doing an unusual thing. Further, the drift of educational opinion seems to the writer to be toward a much less frequent use of instruments in school instruction, because of the belief that accompaniments weaken the self-reliance of the child.

On the subject of the sight-reading of new music, Prof. Landon, Director of Music in Claverack College, says, "There is no more inherent difficulty in learning to read music at sight than
there is in learning to read common print at sight." Mr. Stewart, Principal Teacher of Music in the Cleveland schools, says with reference to the same point, "Children, when properly trained, can learn to sing new music at sight as well as they can learn to read and understand writing and print. That they have not always done so where teaching music has been attempted is true. But that children do so learn where right methods are employed and properly carried out, proves that the failures were either in the methods, or in the teaching, or in both." Mr. Holt, Teacher of Music in the Boston schools, speaking on other subjects, says, "Children who are always led in their singing by voice or instrument, never acquire the ability to sing well independent of such aids. Knowledge in music is in the thinking and not in memorizing. It is only necessary to establish the major scale as a whole by imitation or rote; when this is accomplished, pupils should be so directed in their practice as to enable them to sing all intervals without assistance."

(2.) At present, drawing is taught in a carefully graded progression of exercises during the thirteen years of the school course. The child is trained through free-hand and instrumental work to reproduce plane figures, solids in perspective, and, at last to a certain extent, whatsoever form of beauty may appeal to his taste or live in his imagination. But all this—as indeed is necessary—is done very slowly; since the constant purpose is to train the eye to accurate perception, and the hand to fidelity in the reproduction of perceptions.

Now, something more seems possible. The schools teach English to increase its effectiveness as an instrument of expression. They teach writing partly to give a good hand, but chiefly that they may furnish the child with a new vehicle for the expression of his thought. In like manner—for such as have its resources at command—drawing is an effective instrument of expression. In certain directions it is a more perfect instrument than either speech or pen, and in not a few it is the only adequate instrument.
To sketch should be as easy as to write.

One of your Primary teachers—now lost to you—was wont to say, that from childhood the pencil in her fingers had been the rival of the pen. Whoever will visit certain of your schoolrooms may see the swift-shooting lines—as if by self-direction—group in familiar shapes along the walls. As an object-lesson in the facile use of the crayon, a travelling artist was allowed to picture on your blackboards tree, shrub and flower, rock and fisher-boy, horse, mill and waterfall. Thackeray illustrated his books as rapidly as he wrote them.

These, and such as these, have found in drawing a language ever at hand, inviting use and of easy use. Now, what an inward spur has driven these to acquire, an induced persistence of effort will secure for all. Application will discover aptitude. The drawing faculty is as common as the singing faculty.

If you will examine the arithmetical work of beginners in the pages of the "Quincy Methods," you will find that the solution by sketch is as clear a bit of expression as the solution by words; and the little thinker seems to have worked as spontaneously in the one way as in the other.

When the average child draws as spontaneously as he writes, and, in his world of ideas, uses drawing as an instrument of expression interchangeably with tongue or pen, the real limit in teaching it would seem to have been reached. Then the exquisite impression will find adequate expression through voice, essay or picture, or through all consiliently.

The rank now given to drawing in your "Course of Study" is in accordance with current educational beliefs. Your Superintendent of Schools, however, in his conclusions respecting the educational value of subjects, puts it on a level with writing and English; and he would give as large a share of schooltime to it as to either of them. In all industrial and technical schools it is given remarkable prominence; yet their interest in it touches only a single side of its many-sided helpfulness.

Respectfully submitted.

GEORGE R. DWELLEY,
Superintendent of Schools.

WATERTOWN, Feb. 8, 1887.
SUPERINTENDENT’S REPORT.

SUMMARY OF STATISTICS.

I. Population.
Population of Watertown, census of 1885, 6,238
Number of children between 5 and 15 years of age, May 1, 1886, 1,091

II. Teachers.
Number of Teachers in the High School, 3
" " " Grammar and Intermediate grades, 13
" " " Primary grades, 13
" " special teachers (music and drawing), 2
Whole number of teachers, 31

III. Pupils.
Whole number of pupils enrolled, 1,294
Number over 15 years of age, 128
Average number belonging, 1,157.7
" daily attendance, 1,075.4
Percentage of attendance (upon the number belonging), 92.8

JANITORS.

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<tr>
<th>Name</th>
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<td>George F. Robinson</td>
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<td>Andrew H. Stone</td>
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<tr>
<td>Mary Austin</td>
<td>Coolidge</td>
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<td>Mrs. Ryan</td>
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<td>Joseph Tarlton</td>
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TRUANT OFFICERS.

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<td>Phillips Primary</td>
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<td>E. Delia Adams</td>
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<td>Fanny W. Richards</td>
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<td>Clara E. Davis</td>
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<td>Spring Grammar</td>
<td>Corinne Brainard</td>
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<tr>
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<td>Ruth W. Howard</td>
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<td>Joanna M. Riley</td>
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<td>Mary E. Burns</td>
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<td>Minnie L. O'Brien</td>
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<td>II</td>
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<td>Primary</td>
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<td>Teacher of Drawing</td>
<td>Emma H. McLouthlin</td>
<td>I</td>
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<td>S. Henry Hadley</td>
<td>II</td>
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<tr>
<td>Substitute Teacher</td>
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### SUPERINTENDENT'S REPORT.

#### NAMES OF SCHOLARS NEITHER ABSENT NOR TARDY DURING THE YEAR.

<table>
<thead>
<tr>
<th>Phillips Primary No. 2</th>
<th>Francis Grammar No. 5</th>
<th>Francis Grammar No. 4</th>
<th>Parker Grammar</th>
<th>Coolidge Grammar</th>
<th>Grant Primary</th>
<th>Grant Grammar</th>
<th>High School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lizzie Murphy</td>
<td>Lettie Murphy, May Rand, Pearl Murley, John Shea, Thomas O'Brien</td>
<td>Adeline B. Berry, George E. Smith, Lizzie V. Howard, Eddie J. Spring</td>
<td>Allan Emery</td>
<td>Alice Sawin</td>
<td>Mary McManus</td>
<td>Edith Hemingway, Louise Ford, Madeline Dyer,</td>
<td>May Forrest, Agnes Sample, Hattie Pratt,</td>
</tr>
</tbody>
</table>
NINETEENTH ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

OF THE

FREE PUBLIC LIBRARY

OF THE

TOWN OF WATERTOWN.

1887.

WATERTOWN:
FRED. G. BARKER, PRINTER.
1887.
BOARD OF TRUSTEES,
1886–87.

Rev. Edward A. Rand, Term expires 1887.
A. O. Davidson,
Rev. Robert P. Stack,
Edward E. Allen,
Joshua Coolidge,
George N. March.

Joshua Coolidge, Chairman.
Edward E. Allen, Secretary.
George N. March, Treasurer.

Executive Committee.
Joshua Coolidge, George N. March.
Edward E. Allen.

Committee on Books.
Joshua Coolidge, Rev. Robert P. Stack,
Rev. Edward A. Rand.

Committee on Finance.
George N. March, A. O. Davidson,
Rev. Robert P. Stack.

Librarian.
Solon F. Whitney.

Assistant Librarians.
Miss Jane Stockwell,
Miss Ella Sherman.
REPORT OF THE TRUSTEES OF THE FREE PUBLIC LIBRARY.

The Library is still attended with its heretofore unvarying prosperity and uniform progress. The present is the nineteenth Annual Report of its affairs; and for a general statement of its condition and standing, any one of its former reports would correctly represent its entire history, needing only the figures that would indicate the increase and enlargement that took place from year to year. As a municipal institution, it has taken its place among those that no longer need vindication or defence, and the absence of which in any thrifty community is a source of mortification and regret that no substitute can satisfy or remove.

The expenditure for the past year has been for the usual purposes incident to its daily business. Heretofore, the practice has been to devote the entire available balance that remained after providing for current expenses, to the purchase of books. A slight deviation has been made from this course of procedure; a full average replenishing of books has been added to its shelves; and upon the adjustment of affairs required by the approaching close of the municipal year, a larger surplus of funds was found than was deemed advisable for present investment in books, and the sum of two hundred and fifty dollars, by a vote of a majority of the Board, was exempted from the special use for which it was appropriated by the Town.

The by-laws of the Library are the guide in the general direction of its affairs, but the subject of its annual replenishment of books, both as to their number and character, is left to the judgment of the Board of Trustees, to be determined according to existing circumstances. Our Library being entirely supported
by taxation, its profusion of replenishment should be more lim-
ited than if it were endowed with a fixed income that would jus-
tify a more liberal system of expenditure. It has seemed proper
that corresponding proportions should be maintained between the
Library and the community for whose use it exists; and that the
wants and needs of the present time should determine the rate
and limit of development.

The Librarian's department is in the same line of successful
management that has characterized it from the beginning. It is
still in charge of its original occupant, Mr. S. F. Whitney, as-
sisted during several years past by Misses Stockwell and Sherman.
This is not stated solely as a matter of present information, but
as a continuation of the record that has been annually made during
all the years of their respective service, with such acknowledg-
ments as were justly due. And your present Board of Trustees
herein gladly renew those expressions of regard and esteem, and
those testimonials of efficiency and faithfulness that have been so
often accorded heretofore.

The Report of the Librarian to the Trustees contains, as usual,
the statistics of the circulation, the supplementary catalogue of
the books that have been added during the year, with such recom-
mandations for the interests of the Library as seemed to him to be
advisable. The circulation of the books is constantly increasing
in number, with but slight, if any, variation from former indica-
tions of prevailing tastes and desires in the character of the books
taken out. It still appears that sixty per cent. of the books taken
from the Library are works of fiction. A smaller proportion of
this class of books has been added to the Library during its later
than in its earlier years; and the above cited percentage of read-
ing could be maintained only by a continued use of the entire
stock of works of this class contained in the catalogue.

With the advice of the Board of Health, the use of books has
been withheld from households where any contagious disease was
known to exist, and any books that have been so exposed will be
fumigated before being replaced upon the shelves of the Library.
TRUSTEES' REPORT.

The facilities for the use of the Library during the past year have been increased by an opening from 10 to 12 o'clock in the forenoon.

The statement so often made before is here repeated; that donations to the Library, both large and small, are always in order. The sum of twenty-five hundred dollars ($2,500) and the Dog Tax is requested for the ensuing year. A table of the receipts and expenditures is appended.

For the Board of Trustees of the Free Public Library.

JOSHUA COOLIDGE, Chairman.
TRUSTEES’ REPORT.

Statement of Amounts Received and Expended by the Trustees for the Year 1886.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Received from town appropriation</td>
<td>$2,500.00</td>
</tr>
<tr>
<td>dog tax</td>
<td>478.40</td>
</tr>
<tr>
<td>appropriation for fuel</td>
<td>150.00</td>
</tr>
<tr>
<td>sales of catalogues, fines, etc.</td>
<td>116.43</td>
</tr>
<tr>
<td><strong>Total Received</strong></td>
<td><strong>$3,244.83</strong></td>
</tr>
<tr>
<td>Paid for books, periodicals and binding</td>
<td>$1,099.54</td>
</tr>
<tr>
<td>salaries, librarian and assistants</td>
<td>1,225.00</td>
</tr>
<tr>
<td>gas</td>
<td>243.02</td>
</tr>
<tr>
<td>fuel</td>
<td>139.05</td>
</tr>
<tr>
<td>care of building and grounds</td>
<td>202.19</td>
</tr>
<tr>
<td>printing, expressage, etc.</td>
<td>28.45</td>
</tr>
<tr>
<td>advertising</td>
<td>3.00</td>
</tr>
<tr>
<td>cleaning, postage, stationery and sundries</td>
<td>54.53</td>
</tr>
<tr>
<td>Unexpended balance</td>
<td>250.05</td>
</tr>
<tr>
<td><strong>Total Paid</strong></td>
<td><strong>$3,244.83</strong></td>
</tr>
</tbody>
</table>
REPORT OF THE LIBRARIAN.

To the Trustees:

Gentlemen,—I have the honor to submit for your consideration my nineteenth annual report of the condition and use of the property placed in my custody, with some details of administration that you may wish to consider.

The library has probably reached a greater degree of usefulness in the community than ever before. The circulation as shown by the figures in Appendix I., has been 31,998, larger than any year except 1877, in reality considerably larger, notwithstanding the figures, than even that exceptional year. You have placed two cases of books in the reading-rooms: a case of reference books on one side, and a case containing bound volumes of periodicals,—Harpers, Science Monthly and others,—in the other, and these have been very freely used. In 1877, as all these were given out at the desk and so counted, their circulation helped materially to swell the total number. If these had been counted this year, the number would have been by far the largest on record. This disposition of these books, to which constant reference is made by readers, without asking consent of librarians, has proved a great convenience.

Of the volumes which have been added this year, (see Appendices I. and IV.), a larger proportion have been valuable books of reference, and a smaller proportion those of an ephemeral character. The use of the library by young people for purposes of study has been far greater this year than ever; thus, the library is coming to do its best work. While the percentage of juveniles,—many of which are now illustrated books of travel, history, or general information, instead of mere stories,—is quite large; the percentage of fiction circulated is smaller than ever before in the history of the library, as
will be seen by the figures in Appendix II. It would be very easy, as you are well aware, by providing a larger proportion of fiction to very greatly increase the circulation, and so increase the apparent usefulness of the library. This fact should be stated, as it bears in several directions.

Teachers' cards have now been taken out by nearly all teachers. They seem to be appreciated and the privilege used to the benefit of their pupils. The use of pupil cards by teachers is not as great as it might be, few teachers having as yet found how helpful it would be to their schools to take out cards and select books for the use of their children.

A quotation from a report by Mr. Green of the Worcester Public Library is significant as showing to what extent, under favorable conditions and after a five years' trial of the plan, these privileges may actually be used:

"Two hundred and ninety-eight (298) teachers in Worcester have out to-day the card which we allow to teachers for their own use, and two hundred and ten (210) have out cards which we allow them for the use of their pupils. On the former, six (6) books may be taken out, on the latter, twelve (12) books. Some of the books taken out on the teachers' cards may be given to pupils. Nearly all the teachers have these cards. 5719 books were taken out the past year on teachers' cards, 6792 books were taken out on pupils' cards. In all, 12,511 books, making an average of 875 books each school day for the year. These numbers are in addition to the number taken by the pupils themselves on cards which they have because old enough to have library cards, or on cards belonging to parents or other members of their families. This number is 81 per cent. larger than in 1880. The increase taken out on both kind of cards has been very considerable every year since the issue of school cards. The number of books used by pupils and teachers in the library building has at the same time very greatly increased each year."

From this experience of others, all in this town, parents, teachers and pupils, may derive suggestions and encour-
agement, which may lead to still greater improvement than that which we have been glad to record during the past year.

The character of the reading of the young may thus very materially be influenced for good by the efforts of teachers and library officers combined, and the young themselves brought to delight in the improvement made in the more rapid increase in information gained, and in the conscious growing respect created by the improved taste for a higher class of books.

The parents themselves do not remain uninfluenced by the gradual change. Influenced by a desire to see their children use better books, they themselves read more for information, hunt more for useful knowledge, criticise more carefully the character of the writers whose works they read.

The periodicals placed on the reading-room tables remain, as may be seen in Appendix V., substantially the same as in former years. From some reason which is not entirely understood, not so large a proportion of working and active business men, young or older, make use of the reading-rooms. A larger number of thoughtful ladies and gentlemen and students from the schools, frequent the rooms, which it is pleasant to see. They, with their quiet and decorous bearing make it less difficult to preserve order than in the less pleasant rooms in the old building.

This is well. But I cannot help feeling that the library is not doing for the large class of our people less accustomed to the use of books, the work it might and ought to do. If it is not thought best for the town to incur the expense necessary, I wish some generous and able friend of the well-being of our community could see it in his heart to give money, by will or otherwise, to establish in the basement where there is ample unused space, a reading-room that would prove attractive to all business or working men, as it might with its store of the best newspapers, native and foreign, and illustrative trades journals and periodicals, of which there are many published in this country, in England, in France, and in Germany. Such a reading-room as they have in some places which we might mention, which proves useful in itself, and which
leads to the reading of books from the library above, seems to me
_the thing most needed to extend the usefulness of this institu-
tion to a larger number of the citizens of this town, to the very
ones who now seldom use it at all.

The cases which you put into the reading-rooms, for Natural
history and curiosities have not received so large an addition in
the number of minerals as I had hoped, though they continue to
attract some attention. The collection of bird's eggs and nests
partly promised has not yet been received. Some of the smaller
specimens of birds received last year and not yet properly pro-
vided with cases, have been temporarily placed here.

The library is indebted to the Hollingsworth & Whitney
Company for their kindness in giving us new clean paper for use
in covering books, in exchange for our refuse paper. That this
practice has been continued several years makes it only the more
worthy of note.

The periodicals which have been bound the past year, the num-
ber of which will be seen in Appendix I., a part only of the ac-
cumulation of the past two years, become with little expense a
valuable part of our library. These periodicals serve their pur-
pose while new upon the reading-room tables, and afterwards ac-
quire a permanent value by being put into permanent bindings.
Our bound periodicals have been used more the past year than
ever before. This increased usefulness is due in a measure to the
use of Poole's index of periodicals, and the continuation of the
same made by quite a number of libraries, we contributing our
share to the work. The public are gradually finding out how
useful this index makes the great mass of able articles else buried
with much rubbish in this form of literature.

All necessary records have been kept with the same fullness and
accuracy as in former years. Your librarian and his assistants
have endeavored to perform the duties placed upon them by Ar-
ticle 9th of the Rules and Regulations, to secure the utmost
efficiency and usefulness of the institution placed under their
charge. I would take this occasion to call attention to the long
continued and faithful labors of my assistants. They, by increasing familiarity with the books and their uses, have been able the past year to serve those engaged in study better perhaps than ever before, in looking up information on given topics or subjects. They deserve all the encouragement you can give them.

Among the books added the past year,—a list of which under author, title, or subject is herewith appended,—are the first twenty volumes of the new edition of the Encyclopaedia Brittanica, an encyclopaedia which the general public would profit from by a little more determined effort to use. The articles are able, but rather longer and less subdivided than in the more popular encyclopaedias. It therefore may be of use to others that I remind them that sometimes a longer hunt here will most richly reward them. Smith's dictionaries have been completed by adding the three volumes on Christian Biography and the two on Christian Antiquities. The Micrographic Dictionary added will be a great convenience to those using the microscope. Ferguson's History of Architecture has been completed by the addition of the volume on Indian and Eastern architecture. Bryant and Gay's Popular History of the United States, Black's and Mitchell's Atlases, the last with population of places in the United States according to the last census, will prove valuable for reference. Scott's Border Antiquities will be of interest to readers of Sir Walter Scott, and to students of English and Scottish history. It may be well to call attention to the considerable list of books bearing upon the labor questions, political economy, wealth, capital and labor, free trade, communism, etc., which will lead to a better understanding of all these branches of social science concerning which there is so much interest and so little knowledge.

At the examination of the library in January, over a thousand volumes were found to be not on the shelves, but after checking off those charged to takers of books, those at the binders, or undergoing repairs, and spending some time to look up stragglers, all were found or accounted for except a third copy of Chatterbox for 1875.
Not a very large sum has been received from the sale of catalogues, but a larger sum from fines than ever before in any one year.

In Appendix IV. will be found a list of donors for the past year and the number of volumes or papers or pamphlets which they have contributed.

In Appendix III. will be found the amount of donations to the library of money, books, pamphlets, papers, etc. each year since the library was established. The aggregates are quite creditable to the wise generosity of the people and may inspire others to wish to be of the number of those who pray

"Write me as one who loves his fellow-men."

Thanking you and all who have done so much to establish and support this library, for courtesy and personal kindness, I shall ever be content to be considered one who has tried to dig deep and true for its foundations.

All of which is respectfully submitted.

SOLON F. WHITNEY, Librarian.
## APPENDIX I.

**USE AND GROWTH OF THE LIBRARY FOR THE LAST TWELVE YEARS.**

<table>
<thead>
<tr>
<th>YEARS</th>
<th>1875</th>
<th>1876</th>
<th>1877</th>
<th>1878</th>
<th>1879</th>
<th>1880</th>
<th>1881</th>
<th>1882</th>
<th>1883</th>
<th>1884</th>
<th>1885</th>
<th>1886</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number volumes in library</td>
<td>9,618</td>
<td>10,214</td>
<td>10,795</td>
<td>11,547</td>
<td>11,861</td>
<td>12,447</td>
<td>13,083</td>
<td>14,064</td>
<td>14,556</td>
<td>15,056</td>
<td>15,791</td>
<td>16,587</td>
</tr>
<tr>
<td>Increase during the year</td>
<td>1,272</td>
<td>596</td>
<td>581</td>
<td>752</td>
<td>314</td>
<td>586</td>
<td>636</td>
<td>981</td>
<td>491</td>
<td>500</td>
<td>735</td>
<td>796</td>
</tr>
<tr>
<td>Increase by purchase</td>
<td>782</td>
<td>300</td>
<td>434</td>
<td>404</td>
<td>225</td>
<td>479</td>
<td>378</td>
<td>402</td>
<td>291</td>
<td>297</td>
<td>604</td>
<td>654</td>
</tr>
<tr>
<td>Increase by gift</td>
<td>424</td>
<td>296</td>
<td>92</td>
<td>154</td>
<td>71</td>
<td>107</td>
<td>62</td>
<td>396</td>
<td>158</td>
<td>124</td>
<td>67</td>
<td>105</td>
</tr>
<tr>
<td>Increase by binding pamphlets</td>
<td>68</td>
<td>55</td>
<td>134</td>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number withdrawn, worn out</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>74</td>
</tr>
<tr>
<td>Total no. of pamphlets in the Library</td>
<td>8,203</td>
<td>9,604</td>
<td>9,947</td>
<td>8,480</td>
<td>10,428</td>
<td>11,830</td>
<td>10,977</td>
<td>10,268</td>
<td>11,335</td>
<td>13,004</td>
<td>13,536</td>
<td></td>
</tr>
<tr>
<td>Increase of pamphlets and papers by purchase</td>
<td>920</td>
<td>719</td>
<td>705</td>
<td>773</td>
<td>890</td>
<td>781</td>
<td>1,115</td>
<td>810</td>
<td>934</td>
<td>934</td>
<td>960</td>
<td>1,155</td>
</tr>
<tr>
<td>Increase of pamphlets and papers by gift</td>
<td>1,334</td>
<td>682</td>
<td>450</td>
<td>751</td>
<td>1,239</td>
<td>625</td>
<td>399</td>
<td>712</td>
<td>557</td>
<td>538</td>
<td>550</td>
<td>836</td>
</tr>
<tr>
<td>Of these there were bound</td>
<td>339</td>
<td>812</td>
<td>3,029</td>
<td>173</td>
<td>2,415</td>
<td>2231</td>
<td>424</td>
<td>1,215</td>
<td>8</td>
<td>1,549</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total number of persons who have taken out cards</td>
<td>2,279</td>
<td>2,500</td>
<td>2,713</td>
<td>2,982</td>
<td>3,135</td>
<td>3,311</td>
<td>3,497</td>
<td>3,696</td>
<td>3,889</td>
<td>4,114</td>
<td>4,326</td>
<td>4,585</td>
</tr>
<tr>
<td>Total number volumes issued</td>
<td>29,235</td>
<td>30,679</td>
<td>32,082</td>
<td>29,424</td>
<td>30,652</td>
<td>27,233</td>
<td>27,919</td>
<td>29,474</td>
<td>28,274</td>
<td>27,469</td>
<td>30,304</td>
<td>31,908</td>
</tr>
<tr>
<td>Number of books covered</td>
<td>1,079</td>
<td>2,306</td>
<td>2,280</td>
<td>1,172</td>
<td>1,424</td>
<td>1,133</td>
<td>2,779</td>
<td>3,914</td>
<td>2,644</td>
<td>4,647</td>
<td>3,552</td>
<td>3,188</td>
</tr>
<tr>
<td>Money received for catalogues</td>
<td>$15.55</td>
<td>$11.20</td>
<td>$14.55</td>
<td>$8.20</td>
<td>$5.90</td>
<td>$5.65</td>
<td>$33.00</td>
<td>$7.85</td>
<td>$11.60</td>
<td>$13.25</td>
<td>$5.50</td>
<td>$5.75</td>
</tr>
<tr>
<td>Money received for fines, &amp;c</td>
<td>85.98</td>
<td>85.70</td>
<td>87.31</td>
<td>77.09</td>
<td>94.94</td>
<td>89.74</td>
<td>91.40</td>
<td>86.60</td>
<td>88.77</td>
<td>96.91</td>
<td>96.01</td>
<td>110.65</td>
</tr>
</tbody>
</table>

The Library and reading room are **OPEN EVERY FORENOON** from 10 till 12 o'clock and **EVERY AFTERNOON** from 3 till 8 o'clock (except Sundays and legal holidays), and **SATURDAY EVENING** till 9 o'clock.
APPENDIX II.

CIRCULATION AND USE OF BOOKS FOR 1886.

Of the use of many reference books and bound periodicals in cases in the reading room no account is kept, though these have been used much more during the present year than ever before.

<table>
<thead>
<tr>
<th>Category</th>
<th>Per cent.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference books, other than those mentioned above</td>
<td>9.2</td>
</tr>
<tr>
<td>Periodicals, not on the tables,</td>
<td>4.1</td>
</tr>
<tr>
<td>Juveniles</td>
<td>15.7</td>
</tr>
<tr>
<td>Fiction</td>
<td>61.2</td>
</tr>
<tr>
<td>Descriptive—Geography and Travels,</td>
<td>5.1</td>
</tr>
<tr>
<td>Miscellaneous, Art, Literature, etc.</td>
<td>5.6</td>
</tr>
<tr>
<td>Theology, Religion, Education,</td>
<td>2.9</td>
</tr>
<tr>
<td>Biography</td>
<td>2.7</td>
</tr>
<tr>
<td>History</td>
<td>2.6</td>
</tr>
<tr>
<td>Poetry</td>
<td>3.2</td>
</tr>
<tr>
<td>Science</td>
<td>3.3</td>
</tr>
</tbody>
</table>

APPENDIX III.

DONATIONS TO LIBRARY FROM THE BEGINNING.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>MONEY.</th>
<th>BOOKS.</th>
<th>PAMPHLETS, PAPERS, ETC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868</td>
<td>$3,400 00</td>
<td>462</td>
<td>547</td>
</tr>
<tr>
<td>1869</td>
<td>2,531 52</td>
<td>313</td>
<td>299</td>
</tr>
<tr>
<td>1870</td>
<td>*195 00</td>
<td>417</td>
<td>1,086</td>
</tr>
<tr>
<td>1871</td>
<td>84</td>
<td>41</td>
<td>514</td>
</tr>
<tr>
<td>1872</td>
<td>150 00</td>
<td>115</td>
<td>812</td>
</tr>
<tr>
<td>1873</td>
<td>100 00</td>
<td>213</td>
<td>722</td>
</tr>
<tr>
<td>1874</td>
<td></td>
<td>201</td>
<td>1,366</td>
</tr>
<tr>
<td>1875</td>
<td>424</td>
<td></td>
<td>1,334</td>
</tr>
<tr>
<td>1876</td>
<td>296</td>
<td></td>
<td>682</td>
</tr>
<tr>
<td>1877</td>
<td>92</td>
<td></td>
<td>450</td>
</tr>
<tr>
<td>1878</td>
<td>154</td>
<td></td>
<td>751</td>
</tr>
<tr>
<td>1879</td>
<td>71</td>
<td></td>
<td>1,239</td>
</tr>
<tr>
<td>1880</td>
<td>107</td>
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<tr>
<td>1881</td>
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<td>1882</td>
<td>20,000 00</td>
<td>396</td>
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<td>1883</td>
<td></td>
<td>158</td>
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<td>1884</td>
<td>$375 00</td>
<td>124</td>
<td>538</td>
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<tr>
<td>1885</td>
<td></td>
<td>67</td>
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<tr>
<td>1886</td>
<td></td>
<td>165</td>
<td>836</td>
</tr>
<tr>
<td>Total in 19 yrs.</td>
<td>$26,752 52</td>
<td>3,954</td>
<td>14,021</td>
</tr>
</tbody>
</table>

* Seventy-two dollar-subscriptions for the reading room tables, and sixty-eight dollar-subscriptions for reading room carpet.

† $100. for a clock. † Contributions for Nutting pictures.
### APPENDIX IV.

**LIST OF DONATIONS OF BOOKS, PAMPHLETS, ETC., TO THE LIBRARY.**

<table>
<thead>
<tr>
<th>Donors</th>
<th>Pamphlets and Papers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen, E. E.</td>
<td>4</td>
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<tr>
<td>American Unitarian Association, &quot;Christian Register&quot; and &quot;Unitarian Review.&quot;</td>
<td>64</td>
</tr>
<tr>
<td>Amherst College</td>
<td>1</td>
</tr>
<tr>
<td>Andover Memorial Hall Library</td>
<td>1</td>
</tr>
<tr>
<td>Arlington Public Library</td>
<td>1</td>
</tr>
<tr>
<td>Baker, Walter &amp; Co.</td>
<td>1</td>
</tr>
<tr>
<td>Baldwin, E. D., &quot;Newton Graphic&quot;</td>
<td>52</td>
</tr>
<tr>
<td>Boston, City, Reports of Record Commissioners, etc.</td>
<td>17</td>
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<tr>
<td>Boston Park Commissioners</td>
<td>5</td>
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<tr>
<td>Boston Public Library</td>
<td>3</td>
</tr>
<tr>
<td>Bostonian Society</td>
<td>3</td>
</tr>
<tr>
<td>Boston University</td>
<td>1</td>
</tr>
<tr>
<td>Brookline Public Library</td>
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<tr>
<td>Brooks, J. D. F., Newtonville, Mass.</td>
<td>1</td>
</tr>
<tr>
<td>Cambridge Public Library</td>
<td>2</td>
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<tr>
<td>Chicago Public Library</td>
<td>1</td>
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<tr>
<td>Children's Hospital, Boston</td>
<td>1</td>
</tr>
<tr>
<td>Clinton, Mass., Bigelow Free Public Library</td>
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<tr>
<td>Cox, Hon. Wm. R.</td>
<td>1</td>
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<tr>
<td>Davis, Arthur E.</td>
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<tr>
<td>Dawes, Hon. H. L., &quot;Official Gazette of Pat. Office,&quot; etc.</td>
<td>57</td>
</tr>
<tr>
<td>Dedham Public Library</td>
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<tr>
<td>Ditson, Oliver &amp; Co., &quot;Musical Record&quot;</td>
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<tr>
<td>Eaton, F. B., ed. &quot;Waltham Daily Tribune&quot;</td>
<td>55</td>
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<td>Ensign, Charles S.</td>
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<td>Faxon, H. H.</td>
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<td>Fitchburg Public Library</td>
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<tr>
<td>Fitz, Charles F.</td>
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<tr>
<td>Fitzwilliam, Edward, &quot;Boston Sentinel&quot;</td>
<td>15</td>
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<tr>
<td>Fletcher, Hon. J. Varnum</td>
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<tr>
<td>Funk &amp; Wagnalls, <em>pubs.</em>, &quot;The Voice&quot;</td>
<td>56</td>
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<tr>
<td>Item</td>
<td>Quantity</td>
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<tr>
<td>----------------------------------------------------------------------</td>
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<tr>
<td>Gibson, A. M.</td>
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<tr>
<td>Gleason, Samuel S., “Watertown Enterprise,” etc.</td>
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<td>Gregg, S. Albert</td>
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<td>Harrington, Edith F.</td>
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<td>Harris, J. L., “The Northwest”</td>
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<td>Harvard University Library</td>
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<td>Hayden, Hon. E. D.</td>
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<tr>
<td>Hyde Park Public Library</td>
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<td>Kimball, J. P., Director of U. S. Mint.</td>
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<tr>
<td>Lancaster Town Library</td>
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<tr>
<td>Lawrence Public Library</td>
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<tr>
<td>Leavenworth &amp; Burr, pubs.</td>
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<tr>
<td>Malden Public Library</td>
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<td>Massachusetts, Secretary of Commonwealth</td>
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<td>Mass. Society for Prevention of Cruelty to Animals</td>
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<tr>
<td>Massachusetts State Board of Health, Lunacy etc.,</td>
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<tr>
<td>Massachusetts State Library</td>
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<td>Mead, Dr. Julian A.</td>
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<td>Melrose Public Library</td>
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<td>Middlesex Mechanics Association</td>
<td>1</td>
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<td>Milton Public Library</td>
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<td>Morse, Hon. Leopold</td>
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<td>Morse Institute of Natick, Mass.</td>
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<td>Newton Free Library</td>
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<tr>
<td>Peabody Institute, Danvers, Mass.</td>
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<tr>
<td>Peabody Institute, Peabody, Mass.</td>
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<td>Pratt, Geo. H., ed. “Newton Journal”</td>
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<tr>
<td>Providence Public Library</td>
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<td>San Francisco Mercantile Library Association</td>
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<td>Sawin, James M., Providence, R. I.</td>
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<td>Smithsonian Institution</td>
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<td>Sprague, Homer B.</td>
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<td>Springfield City Library Association</td>
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<td>Suffolk Register of Deeds</td>
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<td>Swansea, (Eng.) Public Library</td>
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<td>Taunton Public Library</td>
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<td>Townsend, Prof. Luther T.</td>
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<td>Tufts’ College</td>
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<td>Tufts’ College Publishing Association, “Tuftonian,”</td>
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<td>United States Bureau of Education</td>
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<td>United States Civil Service Commissioner</td>
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<td>United States Commissioner of Labor</td>
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<td>United States Department of Interior</td>
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<td>United States Signal Office</td>
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<td>United States Sup’t. of Life-Saving Service</td>
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<td>United States Treasury Dep’t., Light-house Board</td>
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<td>Unknown</td>
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<td>Warren, Gen. L. H., Philadelphia</td>
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<td>Warren, Pres. Wm. F., Boston University</td>
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<tr>
<td>Waterbury, Conn., Bronson Library</td>
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<td>Weymouth, Tufts’ Library</td>
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<td>White, Smith &amp; Co., “Folio”</td>
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<td>Whitney, Solon F.</td>
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<td>Wilson, D. M.</td>
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<td>Westminster, Public Library, London, (Eng.)</td>
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<tr>
<td>Woburn Public Library</td>
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<tr>
<td>Woman’s Christian Temperance Union</td>
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<tr>
<td>Worcester Free Public Library</td>
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</table>
LIST OF PERIODICALS REGULARLY RECEIVED AT THE LIBRARY.

Most of these will be found on the tables of the Reading Room.

Youth's Companion.
Agriculturist, The
American Architect and Building News.
American Journal of Science.
American Legion of Honor Journal
American Library Journal.
American Naturalist.
Andover Review.
Appalachia.
Art Amateur.
Atlantic Monthly.
Bangor Historical Magazine.
Boston Public Library Bulletin.
Century Magazine.
Chautauquan, The
Christian Register.
Congressional Record.
Contemporary Review.
Decorator and Furnisher.
Dublin Review.
Eclectic Magazine.
Edinburgh Review.
Education.
Electrician.
English Illustrated Magazine.
Folio, The
Good Words.
Harper's Magazine.
Harvard University Library Bulletin.
Life (N. Y.)
Literary World.
Littell's Living Age.
London Weekly Times.
Magazine of American History.
Manufacturer and Builder.
Musical Record.
Nation, The
N. E. Historical Register.
N. E. Journal of Education.
New Princeton Review.
Newton Graphic.
Newton Journal.
Nineteenth Century.
North American Review.
Northwest, The
Official Gazette of the U. S. Patent Office.
Our Dumb Animals.
Political Science Monthly.
Popular Science Monthly.
Punch.
Quarterly Review.
Science News and Journal of Chemistry.
Scribner's Monthly Magazine.
Specifications and Drawings of patents from the U. S. Patent Office.
St. Nicholas.
Scientific American.
Scientific American, Builder's Ed.
Scientific American Supplement.
Tuitionian.
Unitarian Review and Religious Magazine.
U. S. Consular Reports.
Voice, The
Watertown Enterprise.
Wide Awake.
Woman's Journal.
WATERTOWN
FREE PUBLIC LIBRARY.

THE SIXTH SUPPLEMENT

TO SECOND CATALOGUE.

1887.
WATERTOWN FREE PUBLIC LIBRARY.

Sixth Supplement to Second Catalogue.

1887.

Books with no location number must be called for by title. Abbreviations used are the same as in the Catalogue. Books marked Rd. will be found in cases in the reading room. Books marked R. C. can be consulted in the reading room by applying to the attendants. Volumes belonging to bound sets of nearly all the periodicals named in Appendix V., can be had by calling for them, by title and volume.

Abbott, Willis J. Blue jackets of '61. A history of the navy in the war of secession. N. Y., 1886. 8°, illus. 875.1

Abbott, Rev. Lyman. History of Mr. Gough's life and work. In 567.12

Abbott, Charles C. Upland and meadow. N. Y., 1886. 12°. 902.34

Abbott, Jacob. The Jonas series. N. Y. 16°. 6v. 201.70-75

Jonas a judge. Jonas's stories. Caleb in town. Caleb in a farm in Autumn. Caleb in the country. 201.70

Across the Jordan. Schumacher, G. 363.30


Adams, Brooks. The emancipation of Massachusetts. B. 1887. 12°. 885.30

Adams, Oscar F. Through the year with the poets. (One volume for each month of the year.) B., 1885-6. 12v. 16°. 742.51-62

Adams, W. H. D. Famous caves and catacombs. L., 1886. 12°. 902.31

Adirondacks, The, as a health resort. Stickler, J. W. 311.34

Advertisements, Quaint and curious. Brooks, H. M. 822.35


Agriculture. Dunster, H. P. How to make land pay; or profitable industries connected with the land and suitable to all occupants. 923.37

Massachusetts state agr. experimental station at Amherst, Mass., 1885. Annual report of the Board of control. — U. S. Commissioner. Reports 1862-1878, also 1885. —

Alocott, Louisa, M. Jo's boys, and how they turned out. A sequel to "Little men." B., 1886. 16°. 203.20

Alden, Isabella M. (Paasy.) Spun from fact. B., 1886. 12°. 297.44

Alden, James B. (Pub.) Cyclopaedia of universal literature. 162.32-

Algebra. Todhunter, I. Algebra for beginners, with examples. 560.39

All among the lighthouses, or the cruise of the Golden rod. Crownin- shield, M. B. 335.23

Allen, Rev. Joseph. Historical account of Northborough. In 878.30

Sixth Supplement—1887—of

Allston, Washington. Peabody, Eliz. P. Last evening with Allston, with other papers................................................. 433.28
Alma-Tadema, Lorenz; his life and works. Ebers, Georg............. 731.51
American biography. Belknap, Jeremy. With additions and notes by F. M. Hubbard. 3v........................................... 710.32-34

Contents.—1. Biron.—Madoc.—Zeno.—Columbus.—Cartier.—De Soto.—Gilbert.—Raleigh and Grenville. 2. De Fuca.—De Monts, Poutrincourt and Champlain.—Gorges and Mason.—The Virginia colony.—Sir Thomas Smith.—Delaware, Gates, Somers, Newport, Dale, Wainman.—Argat, Yeardley.—Wyatt.—Gosnold, Pring, Gilbert, Weymouth.—Robinson.—Carver. 3. Bradford.—Brewster.—Cushman.—Winslow.—Standish.—Winthrop.—George and Cecilia Calvert; Baltimore, Leonard Calvert.—Penn.

American politician. A novel. F. Marion Crawford.......................... 215.50,52
Armory, Thos. C. Class memoir of George Washington Warren........ 717.30
Anglo-Saxon antiquities. Vol. 6 of Gentleman's Mag. library........ 446.81
Animals, Geographical and geological distribution of. Heilprin, A.... 971.38
Anna-Karénina. Tolstoi, Leon N., Count.................................. 286.1
Anthony, H. B. Memorial addresses on life and character of........... 737.37
Apache campaign in the Sierra Madre, 1883. Bourke, John G............. 354.32
Architecture. Fergusson, James. History of Indian and Eastern Archi-
tecture................................................................. *143.54

Hunnewell, Jas. F. The imperial island. England's chronicle in stone 436.12
Wightwick, G. Hints to young architects.................................... 131.14
Arctic regions. Greely, A. W. Three years of Arctic service......... 376.37,38
Army life in Russia. Greene, F. V.................................. 1051.20
Arnold, Edwin. India revisited. B., 1886. 12°................................ 363.32

Arts, Chesneau, E. The education of the artist.......................... 442.26
Clement, Clara E. Stories of art and artists............................ 436.15
Perrot, G. and Chipiez, C. History of art in Chaldea and Assyria 438.9,10
See also Christian art and Greece.

As it was written. A Jewish musician's story. Luska, Sidney............. 281.35
Astronomy. Recreations in. With directions for practical experiments
and telescopic work. Warren, H. W................................ 568.42

Bain, Alex. Moral science: a compendium of ethics. N. Y., 1880. 12° 555.43
Baird, Robert. Religion in America. N. Y., 1856. 8°.......................... 537.13
Baird, S. F.; Brewer, T. M.; and Ridgway, R. A history of North Amer-
ican birds. Water birds. B., 1884. 2v. 8°.................................... *967.21,22
Baker, W. & Co., pub. Cocoa and chocolate: their production and use. 331.47
Baldwin, J. The art of school management. N. Y., 1884. 12°........ T. L. 115
Ballou, M. M. Edge-tools of speech. [Quotations.] Selected and ar-
anged by. B., 1886. 8°............................................ 172.8
Watertown Public Library Catalogue.

Banking, Elements of. Macleod, H. D. 7th ed. 1885............1043.34
Barker, Mrs. L. D. S. Only a little child. L. 1883. 16°........201.69
Barns, W. E. The labor problem. N. Y., 1886. 12°...........1042.13
Bassett, J. Persia, the land of the Imams, 1871-1885. N. Y., 1886. 12°........322.10
Bayley, Frances C. On both sides. A novel. Phil., 1887. 12°.........254.34
Beers, H. A. An outline sketch of English literature. N. Y., 1886. ....563.46
Bees. Jenyns, F. G. A book about bees: history, habits, instincts.......931.46
Belknap, J. American biography. Additions by F. M. Hubbard.......710.32-34
Ben-Hur, a tale of the Christ. Wallace, Lew..................224.35
Benjamin, Park. The age of electricity. N. Y., 1886. 12°........943.30
Bennett, E. F. The gardens and menagerie of the Zoological society delineated. V. 1, Quadrupeds. 2. Birds. Chiswick, 1830. 2v 8°...916.24.25
Benton, Thos. H. See Fremont, J: C. Memoirs of my life, etc.......737.50
Berkshire jubilee, celebrated at Pittsfield, Mass., Aug. 22, 23, 1844.....878.26
Berlioz, Hector. Autobiography, 1803 to 1865. Comprising his travels in Italy, Germany, Russia and England. L., 1884. 2v 12°.........735.36.37
Besant, W., and Rice, J. Sir Richard Whittington. N. Y., 1881. 16°.........739.13
Bevan, G. P., ed. British manufacturing industries. L., 1876. 16°....920.29-40
Beverly, Mass., History of. from 1630 to 1842. Stone, E. M. .........878.25
Bible. Geikie, C. Hours with the Bible, or, the scriptures in the light of modern discovery and knowledge. 6v..................................................521.54-59
Wolf, J C. Curse philologicae et criticae, tomus 5.................543.18
Biography. Bolton, Sarah K. Lives of girls who became famous.......710.26
Griswold, H. T. Home life of great authors........................715.41
Smith, W., and Wace, H., eds. Dictionary of christian biography, literature, sects, and doctrines...........................................*172.1-3
Stephen, Leslie. Dictionary of national biography. 9v now pub. ....R. C.
Whipple, E. P. Recollections of eminent men........................715.40
Birch, T. History of the Royal Society of London, for improving of natural knowledge, from its first rise. L., 1756, '57. 4v. 4°..........................927.24-27
Bismark-Schoenhausen, C. E. L. O., Fürst von. Lowe, C: Prince
Bismarck, an historical biography. 2v................................874.2,3
Blackie, John S. Messis vitae. Glimpse of a happy life......744.41
What does history teach? Two Edinburgh lectures. L., 1886. 12°.......562.46
Blaine, James G. Twenty years of congress: from Lincoln to Garfield.
With a review of events previous to 1860. Norwich, 1884. 2v. 8°...837.20.21
Blake, M. History of Franklin, Mass. Franklin, 1879. 8°, illus........878.22
Blake, [Robert], Admiral. Hannay, D. (English worthies.)........711.44
Blue jackets of '61. A history of the navy in the war of secession. Ab-
bot, W. J................................................875.1
Boats. Davies, G. C. Practical boat sailing for amateurs........925.32
Nelson, A. Practical boat building for amateurs.....................925.31
Bolton, Sarah K. Lives of girls who became famous. N. Y., [1886]. .710.26

Social studies in England. B., [1886]. 12°..........................1043.27
Bolton, Sarah K. Stories from life. N. Y.,[1886.] 12° 254.31
Bonar, James. Malthus and his works. N. Y., 1885. 16° 1042.17
Booklover. A guide to the best reading. Baldwin; James. 471.53
Books. Harrison, F. The choice of books 463.30
Lang, A. Books and bookmen 474.30
Pall Mall Gazette. The best hundred books: containing an article by 471.53
Ruskin, a letter by Carlyle, contributions by Gladstone, Lubbock,
Max Müller, etc. N. 5.20
Boston. Park Commissioners. Annual reports 1879-1885
Notes on the plan of Franklin Park. Also Maps of Franklin Park, and
of Boston showing entire park system
Public Library. Bulletins, vols. 5, 6. Jan., 1882 to May, 1883
Bulletin for 1886. Vol. 7, nos. 1 and 2
Report, 1885
Record commissioners. Reports
Vol. 1. Old tax lists.
maps and plans.
Vol. 3. Charlestown land records, 1638-1892.
Vol. 4. Dorchester town record, 1632-1657.
Vol. 10. Miscellaneous papers, including directories for 1769, and 1789, with
plans of the town.
Vols. 11, 12, 13. Records of Boston selectmen, 1701-1715, 1713-1736, 1736-1743.
Water Board. Eight annual report, 1884
Botany. Couler, J. M. Manual of the botany of the Rocky Mnt. region
from New Mexico to the British boundary 945.23
Goodale, G. L. Physiological botany. Vol. 2 of Gray's Botanical
text-book 924.1,v.2
Lubbock, John. Flowers, fruits, and leaves 943.23
See also U. S. Com. of agriculture. Report for 1885
Botta, V. Introduction to the study of Dante. N. Y., 1886. 12° 432.28
Boulnois, H. P. Practical hints on taking a house. L., 1885. 16° 954.8
Bourke, J. G. An Apache campaign in the Sierra Madre, 1883
Bowyte, Wm. (d. 1737.) Biographical and literary anecdotes of 737.49
Brabourne, Lord. See Hugessen, E. H. K.
Branch, O. E. The national primary speaker. Declamations and recita-
tions for pupils from 5 to 10 years of age. N. Y., 1886. 16° 431.40
Brave girls. Catherwood, Mary H., and others 205.80
British manufacturing industries. Bevan, G. P., ed. 920.29,30,39,40
Contents.—Vol. 1. Iron and steel. By M. W. Williams.—Copper smelting.
By J. A. Phillips.—Brass founding, tin-plate and zinc working. By W.
Graham.
Galletly.—Building stones. By Prof. Hall.—Explosive compounds.
By W. M. Williams.
Vol. 11. Jewellery. By G. Wallis.—Gold working. By C. Bontell.—Watch-
es and clocks. By F. J. Britten.—Musical instruments. By E. F. Rim-
bau. Cutlery. By F. Callis.
British manufacturing industries (continued.)


Brown, Helen Dawes. Two college girls. B., 1886. 12°. 255.25

Brown, Wm. N. A practical manual of wood engraving. 921.44


Browning, Robert. Handbook to the works of. Orr. Mrs. S. 471.54


Bull, Ole. A memoir. With Ole Bull’s “Violin notes,” and Dr. A. B. Crosby’s “Anatomy of a violinist.” Bull, Sara C. 714.43

Burnett, F. H. Little Lord Fauntleroy. N. Y., 1886. 8°. 207.32

Burroughs, John. Signs and seasons. B., 1886. 16°. 471.52

Butler, F. G. History of Farmington, Maine, 1776-1885. 878.21

Butler, Samuel. Evolution, old and new; or, the theories of Buffon, Dr. Erasmus Darwin, and Lamarck, as compared with that of Mr. Charles Darwin. Salem, 1879. 12°. 944.26

Butler, Wm. The land of the Veda. B., 1871. 8°. 316.12

Butler, Wm. A. Domesticus; a tale of the imperial city. N. Y., 1886. 216.33

Butter and cheese. Evans, Morgan. In British manufacturing industries 920.40

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