

TOWN SCHOOL DISTRICT OF CONCORD.

SUPERINTENDENT'S REPORT, 1908-1909.

To the School Board of Concord Town District:

I herewith submit my second annual report as superintendent of schools of the Town District of Concord.

The moving principle of all school work must be the preparation of our boys and girls for citizenship. The teaching of the various subjects of the school curriculum is for the purpose of giving a mental equipment that will enable a boy or girl to grasp life's problems with vigorous honesty and courage.

This thought I have kept constantly before my own mind, and have striven to keep it always before the minds of the teachers. With this object in view there is the absolute necessity for the honest performance of each day's tasks and duties. The acceptance of slovenly, or half-done work will quickly establish a habit that will prove a serious handicap to a child through life. Between teacher and pupil there must be entire honesty, frankness and fair-dealing.

The teacher who comes before her classes unprepared in her part of the work, will find herself compelled to work always with pupils who fail to prepare their work. Or if her own work is not carried on with vigor, her pupils will never put energy in the doing of their work. If the teacher permits things to drift along without definite plan and preparation, the children quickly catch the spirit and their work will be aimless and without results.

Hence throughout the year I have had teachers work to a daily programme, guide their work by the state pro-

gramme of studies, require clean, well-prepared work, and further, to do their own work with at least a fair degree of vigor.

This has resulted in greater mental activity, and therefore better work and better habits of work on the part of the pupils.

But the schools must not be permitted to assume all rights or duties of establishing right habits in the children. The chief part of this work rightly belongs to the home and cannot be delegated to or assumed by the school. The home and the school must co-operate for the best interests of the child.

If there is a spirit of fault-finding or unfriendly criticism on the part of either towards the other the effect upon the children is disastrous. If the daily happenings of the schoolroom are carried home and misinterpreted and discussed in the presence of the children, for them the usefulness of the school is impaired if not utterly destroyed and they are thus defrauded of their natural rights.

Or if a teacher is so injudicious as to speak slightly of the town, or of the people or the children among whom she is working, she thereby throws away her chance of doing her best work for these children.

Injudicious criticism of teacher by parent, or of parent by teacher, tends to destroy in the child that respect for authority, and that confidence in his natural-guardians and mental guides, which constitute two of the chief factors which make for good citizenship.

Unless parent and teacher work together in a friendly way for the proper training of the children, good results are impossible.

And may I here speak a word in behalf of the teacher? Her position is an exceedingly difficult one. She is usually a young girl, away from home and thrown among entire strangers, and this at a time in her life when she especially needs a mother's care and advice. It is very

likely that she is homesick and taxed to the utmost of her ability by her work. She is nervous and sensitive to the slightest word or glance that seems to her to indicate a criticism of her work, and the burden of this work has begun to weigh upon her and to almost crush her.

In the schoolroom she must have an unlimited fund of tact. She must be firm enough to control the restless, gentle enough to win the timid, calm enough to restrain the boisterous, animated enough to encourage the bashful and diffident; and these are only the incidental qualifications which she must have. Essentially, she must be a teacher—capable of imparting all kinds of knowledge and training to all kinds of children. Put yourself in her place before criticising her too severely.

The work in all the schools is being brought closer to the programme of studies, and is being more closely graded so that practically the same work is being done in corresponding grades in all schools. This working to a programme of studies and the grading in accordance with it, means a very great saving in time. Without it pupils were frequently taken over the same subject or parts of a subject again and again, while other subjects of equal importance were slighted or entirely neglected as their supposed importance or unimportance appealed to a particular teacher, or it might be as her knowledge of the subjects permitted.

The work is being adapted to the age of the pupils. A child can learn the mechanics of reading better before he is eight years old than he can later. The essentials of language and the fundamental operations of arithmetic can be best learned before the age of eleven. During these early years the memory is very active and the child enjoys rapid drill work. He has very little power of steady application, but must have frequent changes of work. His reasoning powers have not yet developed and therefore the solving of puzzling problems, the attempt to give a thorough knowledge of any such subject as interest or mensuration, or the teaching of technical grammar, in

short, work in any abstract subject is entirely out of place. This is the time for establishing habits by doing. The child's thinking is slow, but he must be doing things all the time. He cares nothing for abstract principles or general rules but he is interested in doing the concrete example, and from the doing of a large number of concrete examples the abstract principle may be established.

It is not until the child reaches the age of twelve or fifteen years that he begins to reason from the abstract back to the concrete. The mechanical processes should be so thoroughly mastered before this that he would not have to give them any thought but may be able to give all his attention to the solution of the problem in hand. Most of the difficulties which upper grade and high school pupils encounter in their work arise from the fact that they did not receive sufficient drill in the fundamentals to give them the mastery of them, but were kept puzzling over work entirely beyond their ability, such as technical grammar and the difficult principles of arithmetic.

By adapting the work to the ages of the pupils there begins to show a material improvement in all subjects. The essentials of reading, language and grammar, arithmetic, history, geography, writing, etc., are better taught and the non-essentials are receiving less attention.

The most important changes in text-books during the year were in arithmetic and writing. In both of these subjects, with the new books, a marked improvement has been made in the work during the year.

The work in singing, which was introduced last year, is showing good progress and amply justifies the expense incurred.

In closing, I desire to extend my thanks to parents, teachers and school board whose support and co-operation have made the success of our work possible.

J. A. MACDOUGALL,
Superintendent of Schools.

REPORT OF THE SCHOOL BOARD.

In submitting our report for the year ending in March, 1909, it is in the belief that our schools have maintained a degree of progress and general prosperity that will compare favorably with other rural schools. Whatever we may provide in schoolrooms, or books, or good supervision, the success of our schools depends largely upon the teacher. The often repeated saying, that the teacher makes the school, is exemplified in some of our smaller schools quite as well as in the larger schools of the city. We realize that the selection of competent teachers is one of the most important duties devolving on the school board.

A question, often difficult of solution, is how to provide school privileges for the one, two, three or more children in sections where the limited number makes the support of a school inadvisable, and the homes of the children are so remote from any school as to require conveyance at the expense of the district. Arrangements that seem most consistent with all circumstances in the case, are sometimes unsatisfactory. It should be remembered, however, that a perfect equalization of privileges under circumstances above referred to, would be an impossibility.

The treasurer's report shows the balance in his hands of some \$600 less than that of a year ago. The annexation of the Burrough district to District No. 20, while relieving us of some expense, has materially reduced our revenue. A recent act of the legislature has made it the duty of each district to fix and pay its salaries, and to make all appropriations at the school meeting. It would be impossible to calculate definitely our current expenses for the coming year. It is evident, however, that we must

raise a larger amount of money than last year or submit to a curtailment of our school privileges.

ALBERT SALTMARSH,
IRVING T. CHESLEY,
JUDSON F. HOIT,
School Board.

TREASURER'S REPORT.

The treasurer of the Town School District respectfully submits the following report of the receipts and expenditures for the year ending March, 1909:

RECEIPTS.

Balance from last year,	\$9.50
Balance from city treasurer,	1,204.93
Appropriation,	2,777.68
Voted by district,	1,000.00
Literary fund,	111.05
Dog licenses,	84.60
Text-books,	195.60
Abial Walker fund,	2.23
Tuition returned by state,	62.22
Tuitions received from Hopkinton,	44.00
School tax from Loudon,	69.78
Proportion of school fund,	250.00
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Total revenue,	\$5,811.59

EXPENDITURES.

Teachers' salaries,	\$2,650.20
Books,	46.79
Supplies,	98.53
Fuel,	206.35
Repairs,	464.65
Conveying scholars,	92.50
Music,	195.72
Tuitions,	574.94
Enumerating children,	16.00

Water,	\$12.00
Incidentals,	80.75
Supervisor,	650.00
Treasurer,	25.00
Printing and postage,	6.65
Truant officer,	2.00
Balance in city treasury,	583.38
Balance in district treasury,	106.13
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	\$5,811.59

ISAAC N. ABBOTT,
Treasurer.

WATER DEPARTMENT.

1908.

BOARD OF WATER COMMISSIONERS.

CHARLES R. CORNING, MAYOR, *ex officio*.

HENRY C. HOLBROOK,	to March 31, 1912.
HENRY E. CONANT,	to March 31, 1912.
EDSON J. HILL,	to March 31, 1911.
GEORGE D. B. PRESCOTT,	to March 31, 1911.
HARRY H. DUDLEY,	to March 31, 1910.
NATHANIEL E. MARTIN,	to March 31, 1910.
SOLON A. CARTER,	to March 31, 1909.
HARLEY B. ROBY,	to March 31, 1909.

SOLON A. CARTER, *President*.

EDSON J. HILL, *Clerk of Board*.

SUPERINTENDENT.

P. R. SANDERS.

CLERK.

ALICE G. COCHRAN.

FOREMAN.

JAMES T. DAVIS.

INSPECTOR.

HARRY E. STEVENS.

ENGINEER.

HENRY A. ROWELL.

CONCORD WATER BOARD.

Date of election and length of service of members.

Abraham G. Jones, *ex officio*, 1872—three months.
John M. Hill,* 1872-1878.
Benjamin A. Kimball, 1872-1878.
Josiah Minot,* 1872. Resigned Jan. 10, 1874.
David A. Ward,* 1872-1874.
Edward L. Knowlton,* 1872. Resigned Sept. 25, 1875.
Benjamin S. Warren,* 1872-1873.
John Kimball, *ex officio*, 1872-1876.
John Abbott,* 1873-1876.
John S. Russ,* 1874-1877.
Abel B. Holt,* 1874-1877.
Samuel S. Kimball,* 1875. Resigned July 1, 1891.
Geo. A. Pillsbury,* *ex officio*, 1876-1878.
Luther P. Durgin,* 1876-1885.
John Kimball, 1877. Resigned July 1, 1891.
William M. Chase, 1877. Resigned July 1, 1891.
Horace A. Brown, *ex officio*, 1878-1880.
James L. Mason,* 1878-1893.
James R. Hill,* 1878. Died 1884.
Geo. A. Cummings,* *ex officio*, 1880-1883.
Edgar H. Woodman,* *ex officio*,
1883-1887.
Joseph H. Abbot,* 1884-1893.
George A. Young,* 1885-1894.
John E. Robertson, *ex officio*, 1887-1889.
Stillman Humphrey,* *ex officio*,
1889-1891.
Henry W. Clapp,* *ex officio*, 1891-1893.

* Deceased.

Willis D. Thompson,	1891-1895.
William P. Fiske,	1891-1902.
James H. Chase,*	1891. Died in 1893.
John Whitaker,*	1892. Died in 1903.
Henry E. Conant,	1892. Resigned Jan. 8, 1895.
Parsons B. Cogswell,* <i>ex officio</i> ,	
	1893-1895.
Solon A. Carter,	1893. Now in office.
Frank D. Abbot,	1893-1901.
William M. Mason,	1893-1899.
William E. Hood,	1894-1902.
Henry Robinson, <i>ex officio</i> ,	1895-1897.
Ebenezer B. Hutchinson,	1895. Resigned Jan. 10, 1899.
Edson J. Hill,	1895. Now in office.
Albert B. Woodworth,* <i>ex officio</i> ,	
	1897-1899.
Nathaniel E. Martin, <i>ex officio</i> ,	
	1899-1901.
Henry E. Conant,	1899. Now in office.
Timothy P. Sullivan,	1899. Resigned May 14, 1901.
Harry G. Sargent,* <i>ex officio</i> ,	1901-1903.
Obadiah Morrill,	1901-1905.
George D. B. Prescott,	1901. Now in office.
Harry H. Dudley,	1902. Now in office.
Nathaniel E. Martin,	1902. Now in office.
Charles R. Corning, <i>ex officio</i> ,	
	1903. Now in office.
Henry C. Holbrook,	1903. Now in office.
Harley B. Roby,	1905. Now in office.

PRESIDENTS OF THE BOARD.

Josiah Minot,*	1872. Resigned Jan. 10, 1874.
Benjamin A. Kimball,	1874-1875.
Edward L. Knowlton,*	1875. Resigned Sept. 25, 1875.
John Kimball,	1875-1876.

Benjamin A. Kimball,	1876-1878.
John Kimball,	1878. Resigned July 1, 1891.
William P. Fiske,	1891-1902.
Solon A. Carter,	1902. Now in office.

* Deceased.

CONSTRUCTION.

Cost of land damages, flowage and water rights:

Paid B. F. & D. Holden, for water rights,	\$60,000.00
Concord Manufacturing Co., for water rights,	83,000.00
W. P. Cooledge, for mill privilege and land,	5,500.00
Humphrey & Farnum, for kit-shop privilege,	4,900.00*
flowage rights around Penacook Lake,	4,375.61
W. P. Cooledge, Hutchins lot,	1,050.00†
Mary C. Rowell, for land,	1,500.00
Moses H. Bradley, for land,	5,000.00
Joseph B. Walker, for land,	2,214.00
John G. Hook, for land,	370.00
A. S. Ranney, for land,	1,350.00
Alfred Roberts, for land,	1,275.00
Charles E. Ballard, for land,	2,500.00
Mary G. Carter, for land,	1,250.00
Elizabeth Widmer, for land,	1,564.50
A. L. Proctor, for land,	450.00
Robert Crowley, for land,	3,000.00
Miles Hodgdon, for land,	2,200.00
heirs of Lowell Brown, for land,	1,032.55
Coffin & Little, for land,	800.00

* Original cost \$5,000; land sold for \$100.

† Original cost house and lot, \$2,250; portion of lot sold for \$1,200.

Paid O. F. Richardson, for land,	\$100.00
M. H. & C. R. Farnum, for land,	4,500.00
Cook & Hood, for land,	1,750.00
Charles H. Farnum, for land,	1,410.36
Fred N. Ladd, for land,	300.00
A. W. Hill, for land,	6,500.00
Helen G. Evans and others, for land,	2,000.00
Frank B. Kilburn, for land,	2,500.00
Joseph A. and Mary E. Hal- loran, for land,	600.00
C. H. Amsden, water and flow- age rights,	5,000.00
Cost of property and rights of Tor- rent Aqueduct Association,	20,000.00
dam, gate-house and appur- tenances,	31,956.17
conduit and gate-houses,	29,484.05
mains (low service main and pump main from the dam to Penacook Street, force main from the pump to the reser- voir, fire main through North and South Main Streets, and high service main from Pen- acook Street to Stark Street, Penacook),	182,241.70
distribution pipe,	362,383.24
service pipe,	52,553.18
reservoir,	42,460.09
pumping station, shop, stable and storehouse,	22,000.00
pumping machinery,	17,000.42

Cost engineering and superintend- ence,	\$14,913.12
incidentals,	6,531.19
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Cost of works January 1, 1909,	\$989,515.18

Bonds of the city have been issued to pay a part of said cost, of which the following are still outstanding:

When due.	Rate.	Amount.
Jan. 1, 1909,	4,	\$10,000.00
Jan. 1, 1910,	4,	5,000.00
Jan. 1, 1910,	3,	5,000.00
Jan. 1, 1911,	4,	5,000.00
Jan. 1, 1911,	3,	5,000.00
April 1, 1912,	3½,	10,000.00
Jan. 1, 1913,	4,	10,000.00
Jan. 1, 1914,	4,	10,000.00
Jan. 1, 1915,	4,	10,000.00
Jan. 1, 1916,	4,	10,000.00
Jan. 1, 1917,	4,	10,000.00
Jan. 1, 1918,	4,	10,000.00
Jan. 1, 1919,	4,	10,000.00
Jan. 1, 1920,	3,	10,000.00
Jan. 1, 1921,	3,	5,000.00
April 1, 1921,	3½,	5,000.00
Jan. 1, 1922,	4,	400,000.00
March 1, 1922,	3½,	20,000.00
April 1, 1922,	3½,	30,000.00
Jan. 1, 1923,	3½,	15,000.00
Jan. 1, 1924,	3½,	15,000.00
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		\$610,000.00

REPORT OF WATER COMMISSIONERS.

OFFICE OF THE BOARD OF WATER COMMISSIONERS.

CONCORD, N. H., February 1, 1909.

To His Honor the Mayor and the City Council:

The Board of Water Commissioners have the honor to transmit herewith, the reports of the superintendent and the engineer of the pumping station, exhibiting in detail the operations of the system for the year 1908, which cover the ground so fully that there is little for the board to add.

We wish, however, to commend and express our appreciation of the faithful service of all the employees of the department.

The physical condition of the system is eminently satisfactory. Our citizens have abundant cause for congratulation in the fact that while other municipalities have, during the protracted drought of last summer, been threatened with a water famine, our system has yielded an abundant supply of unexceptional quality, no consumer having been obliged to restrict himself in its use for fear of exhausting the supply.

Respectfully submitted,

HENRY C. HOLBROOK,

HENRY E. CONANT,

EDSON J. HILL,

GEORGE D. B. PRESCOTT,

HARRY H. DUDLEY,

NATHANIEL E. MARTIN,

SOLON A. CARTER,

HARLEY B. ROBY,

CHARLES R. CORNING, *ex officio*,

Water Commissioners.

REPORT OF THE SUPERINTENDENT.

To the Board of Water Commissioners:

I herewith present to you the thirty-seventh annual report of the operations of this department, showing the receipts, expenditures and abatements, together with a statement of extensions and improvements made during the year ending December 31, 1908.

RECEIPTS.

For water, from consumers by fixed rates,	\$29,087.49
For water, from consumers by meter rates,	41,825.38
From delinquents,	101.66
For water used for building purposes,	35.00
hay and apples sold,	25.00
pipe and stock sold and labor,	154.71
old brass and iron sold,	136.48
wood sold,	92.00
	————— \$71,457.72
Deduct abatements,	95.05
	—————
Net receipts for 1908,	\$71,362.67

EXPENDITURES.

GENERAL EXPENSES.

Paid pay-rolls, salaries and labor,	\$12,601.53
S. G. Sanborn, rent of shop in Penacook,	24.00
Ira C. Evans Co., printing and postage,	185.36
Rumford Printing Co., books,	88.75

Paid E. C. Eastman, office supplies,	\$5.05
Mrs. Frank P. Mace, office supplies,	4.00
Burroughs adding machine, one third of cost,	125.00
Concord Electric Co., lighting,	12.76
N. E. Telephone & Telegraph Co., telephones,	105.72
W. A. Thompson, rubber boots,	16.00
John C. Thorne, rubber boots,	7.00
Thompson & Hoague Co., hardware,	66.08
W. L. Jenks & Co., hardware,	48.78
A. H. Britton & Co., hardware,	7.94
Joseph T. Walker, hay,	119.65
Walter S. Dole, grain and straw,	154.58
G. N. Bartemus & Co., grain,	51.09
F. W. Sanborn, dynamite and exploders,	45.33
New England Nurseries, pine trees,	40.00
Philip W. Ayres, pine seed,	62.50
Highway Department, crushed stone,	75.00
Tragle Cordage Co., jute packing,	82.03
Hutchinson Building Co., lumber,	28.56
Concord Lumber Co., laths,	10.20
Page Belting Co., oil barrels and labor,	13.50
Batchelder & Co., oil, etc.,	50.24
C. H. Martin & Co., naphtha, etc.,	18.90
National Paint & Varnish Co., paint,	40.76
George Abbott, Jr., paint,	38.73
Joseph Dixon Crucible Co., paint,	7.25
Benjamin Bilborough & Sons, paint,	3.80
Dickerman & Co., cement,	395.29

Paid Woodworth & Co., cement,	\$10.75
R. D. Wood & Co., cast-iron pipe and hydrant supplies,	8,110.89
Builders' Iron Foundry, castings,	18.90
Ford & Kimball, castings,	19.43
Concord Foundry & Machine Co., castings,	59.31
Lynchburg Foundry Co., castings,	7.49
Ludlow Valve Mfg. Co., valves and hydrants,	1,241.12
Rensselaer Mfg. Co., hydrants,	240.71
Fairbanks Co., hydrant,	37.50
Chadwick-Boston Lead Co., pig lead and lead pipe,	734.96
Bingham & Taylor, gate boxes,	103.50
George E. Gilchrist Co., wrought-iron pipe and fittings,	133.22
A. M. Byers Co., wrought-iron pipe,	131.49
J. H. Cunningham Co., fittings,	4.25
Hays Mfg. Co., curb boxes,	15.51
H. Mueller Mfg. Co., brass goods,	254.56
Walworth Mfg. Co., brass goods, tools and fittings,	138.75
Concord Pipe Co., pipe and fit- tings,	65.78
Orr & Rolfe, fittings,	6.70
Harold L. Bond & Co., tools,	54.65
National Meter Co., meters and repairs,	282.44
Thomson Meter Co., meters and repairs,	210.60
Henry R. Worthington, meters,	100.80
Union Water Meter Co., meters,	68.90
Hersey Mfg Co., meter repairs,	6.54
Pittsburg Meter Co., meters,	50.40

Paid A. C. Leavitt, meter,	\$3.50
Globe Horseshoeing Shop, smith-work,	71.94
Ross W. Cate, smith-work,	18.20
Jasper E. Brown, smith-work,	15.00
A. F. Gross, smith-work,	11.25
Holt Bros. Mfg. Co., sawing lumber,	2.73
George D. Huntley, repairs,	30.45
C. Pelissier & Co., repairs and supplies,	25.15
James Cookson, whitewashing,	12.20
H. M. Richardson, team-work,	167.92
George L. Theobald, team-work,	108.66
E. L. Davis, team-work,	26.00
John A. Coburn, team-work,	15.06
Concord Coal Co., team-work,	12.00
George F. Tandy, repairing concrete,	157.74
J. E. Normandeau, mason-work,	440.40
J. G. McQuilken, use of steam- boat,	81.00
Morrill & Danforth, insurance and bond,	340.84
Eastman & Merrill, insurance,	24.00
Boston & Maine Railroad, freight and repairing side-track,	1,130.42
town of Webster, taxes,	74.00
Engineering News,	5.00
A. G. Cochran, clerk, cash paid out, car fares, postage, ex- press, etc.,	59.30
L. H. Piper, damages,	75.00
W. P. Underhill, damages,	18.00
incidentals,	36.05
	----- \$29,606.34

WATER DEPARTMENT.

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PUMPING STATION EXPENSES.

Paid pay-rolls, engineer and firemen,	\$1,704.11
labor on fuel,	33.00
Concord Lumber Co., coal,	1,115.74
H. M. Richardson, drawing wood,	20.00
W. C. Robinson & Sons Co., oil,	72.58
Philadelphia Grease Mfg. Co., grease,	4.75
Eagle Oil & Supply Co., packing and hose,	47.00
Revere Rubber Packing Co., packing,	5.01
Garlock Packing Co., packing,	3.71
Concord Foundry & Machine Co., castings,	29.68
Hodge Boiler Works, castings,	7.68
McLeod & Henry, fire brick,	25.30
Rowell & Plummer, mason-work,	24.51
Orr & Rolfe, fittings,	2.50
Lee Bros. Co., fittings,	2.40
Henry R. Worthington, springs,	17.28
Harold L. Bond & Co., tools,	18.75
Thompson & Hoague Co., hardware,	16.88
W. L. Jenks & Co., hardware,	31.05
Batchelder & Co., supplies,	2.08
J. M. Stewart & Sons Co., supplies,	15.45
Globe Horseshoeing Shop, smith-work,	2.45
F. W. Landon, supplies,	.72
A. G. Cochran, clerk, cash paid out,	6.90

Paid Boston & Maine Railroad, freight and repairing side-track,	\$21.86	
Concord Light & Power Co., lighting,	9.99	
N. E. Telephone & Telegraph Co., telephone,	37.64	
		\$3,279.02
Total expenditures for 1908,		\$32,885.36

The expenditures are divided as follows:

GENERAL EXPENSES.

For care and maintenance,	\$3,313.57	
office expenses,	1,209.16	
inspection,	745.00	
care and repair of hydrants,	289.00	
repairs on cement-lined pipe,	141.83	
new service-pipes,	1,546.74	
new distribution pipes,	17,643.56	
new hydrants,	1,403.70	
meter account,	734.47	
repairs on dam,	1,431.58	
work at Penacook Lake,	430.96	
care of wood lots at Penacook Lake,	286.27	
incidentals,	430.50	
		\$29,606.34

PUMPING STATION EXPENSES.

For salaries, engineer and fireman,	\$1,704.11	
fuel,	1,168.74	
oil and packing,	106.28	
repairs,	138.70	
supplies,	113.56	
lighting and telephone,	47.63	
		\$3,279.02

EXTENSIONS AND IMPROVEMENTS.

Cast-iron main and distribution pipes have been laid and hydrants set during the year as follows:

In Franklin Street,

west from North State to Jackson Street, 786 feet 10-inch pipe in place of 6-inch cement-lined pipe discontinued.

In School Street,

west from Hanover to Merrimack Street, 528 feet 10-inch pipe in place of 8-inch cement-lined pipe discontinued.

In School Street,

west from Tahanto to Holt Street, 608 feet 10-inch pipe in place of 6-inch cement-lined pipe discontinued.

In Hall Street,

south from Hammond Street, 1,068 feet 8-inch pipe in place of 4-inch cast-iron pipe discontinued.

In Tremont Street,

west from North State to Jackson Street, 770 feet 8-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Rumford Street,

north from Franklin to Church Street, 493 feet 8-inch pipe in place of 8-inch cement-lined pipe discontinued.

In Centre Street,

west from North Spring to Rumford Street, 317 feet 8-inch pipe in place of 6-inch cement-lined pipe discontinued.

In Iron Works Road,

west from South Street, 1,332 feet 6-inch pipe.

In Perkins Street,

west from Bradley to Rumford Street, 590 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Church Street,

west from North State to Jackson Street, 810 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Tremont Street,

west from Jackson to Rumford Street, 715 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Franklin Street,

west from North Main to North State Street, 337 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Pearl Street,

west from North Main to North State Street, 488 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Chapel Street,

west from North Main to North State Street, 363 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Court Street,

west from North Main to North State Street, 585 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Allison Street,

west from South Main to Dakin Street, 880 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Jackson Street,

south from Franklin to Washington Street, 993 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Academy Street,

south from Washington to Cambridge Street, 417 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Essex Street,

south from Washington to Centre Street, 563 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Merrimack Street,

north from Orchard to School Street, 910 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

In Huntington Street,

south from School Street, 213 feet 6-inch pipe.

In Penacook Street, Penacook,

extended south from Rolfe Street, 1,073 feet 6-inch pipe.

In Washington Street and Park Avenue, Penacook,

extended west, 1,066 feet 6-inch pipe.

In Elliott Street, Penacook,

north from Park Avenue, 476 feet 6-inch pipe.

In Mill Road,

extended west from Orphans' Home, 714 feet 4-inch pipe.

On connections,

75 feet 6-inch pipe in place of 4-inch cement-lined pipe discontinued.

On hydrant branches,

235 feet 6-inch pipe and 18 feet 4-inch pipe; 10 feet 6-inch cement-lined and 12 feet 4-inch cement-lined pipe discontinued.

Also, 26 feet of 1-inch pipe; 867 feet of 1-inch pipe discontinued.

Eighteen new hydrants have been set as follows:

- On Church Street at Bradley.
- On Tremont Street east of Harrod.
- On Tremont Street at Jackson.
- On Pearl Street at Kimball Flanders'.
- On Academy Street at William E. Dow's.
- On School Street at Pine.
- On School Street at Liberty.
- On Huntington Street at Short.
- On Laurel Street at Grove.
- On Mills Street at Allison.
- On Allison Street at Badger.
- On Mill Road, St. Paul's School, at tenement No. 7.
- On Hall Street, below Hammond.
- On Iron Works Road at Brown's.
- On Penacook Street, Penacook, at E. L. Davis'.
- On Penacook Street, Penacook, at John Chadwick's.
- On Elliott Street, Penacook, at Park Avenue.
- On West Main Street, Penacook, at Pine.

Two hydrants have been removed:

- On Allison Street at Mills.
- On School Street near Holt.

There have been set 38 gates; discontinued, 19.

SUMMARY OF THE FOREGOING.

NEW PIPES, HYDRANTS AND STOP-GATES.

<i>Pipes.</i>		<i>Hydrants.</i>		<i>Stop-Gates.</i>	
1-in.,	26 feet.	In city,	14	4-in.,	1
4-in.,	732 "	In Penacook,	4	6-in.,	33
6-in.,	12,121 "			8-in.,	2
8-in.,	2,648 "			10-in.,	2
10-in.,	1,922 "				
	<u>17,449 feet,</u>		<u>18</u>		<u>38</u>
	equal to 3.304 miles.				

PIPES, HYDRANTS AND STOP-GATES DISCONTINUED.

<i>Pipes.</i>		<i>Hydrants.</i>		<i>Stop-Gates.</i>	
1-in.,	867 feet.	In city,	2	4-in.,	14
4-in.,	8,763 "			6-in.,	4
6-in.,	2,787 "			8-in.,	1
8-in.,	1,050 "				
	<u>13,467 feet,</u>		<u>2</u>		<u>19</u>
	equal to 2.55 miles.				

Total length of main and distribution pipes now in use, 355,280 feet, equal to 67.28 miles.

Total number of hydrants now in use, 372.

Total number of gates now in use, 928.

SERVICE PIPES.

There have been laid during the year and connected with the main pipes, 50 service pipes consisting of

48	¾-inch,	1,035 feet.
1	1-inch,	63 feet.
1	2-inch,	4 feet.
<u>—</u>		<u>—</u>
50		1,102 feet.

There have been discontinued, 13; whole number in use at the present time, 3,627; total length of service pipes, 84,126 feet or 15.93 miles. We have placed 211 service boxes at the curb on old services, and in relaying the street pipes, we relaid 44 services.

We have set 48 meters during the year; 11 have been removed, making the total number now in use, 1,532.

The following table shows the height of water in Penacook Lake on the first day of each month:

January,	185.00	July,	184.05
February,	184.90	August,	183.00
March,	184.85	September,	182.80
April,	184.90	October,	180.00
May,	185.00	November,	181.20
June,	184.80	December,	180.60

The lowest point reached during the year was on December 31, being 180.10; the highest was on April 10, and was 185.10; mean height for the year was 183.41, which was .69 foot lower than the mean height for the year 1907.

We have been compelled to shut off one service for non-payment of water-bill.

The improvement of the wood-lots owned by the city around the shores of the lake has occupied the attention of our force during the winter months mainly by thinning and clearing out the dead wood and underbrush.

In the spring, 2,000 small pine trees were set out on one of the pasture lots, but owing to the extremely dry season some of them died. A small nursery has been started, twenty-five pounds of pine seed being purchased and sown in beds. It is the intention of the department to transplant these little trees on the several lots around the lake as soon as they are large enough.

The shores of the lake have had a great deal of attention this season but there still remains a large number of stumps

which we hope to remove another season if the present low stage of water continues.

On account of high water which has at times been above the flagging on the dam, the fence and its foundations had become somewhat undermined so that repairs were necessary. It was decided to construct a solid concrete wall about five feet in depth and to extend the flagging in concrete to meet the face of this wall. A pipe rail fence with 2-inch pipe for risers and 1½-inch pipe for runners and special fittings has been placed on the wall. It is the intention to place a similar fence on the east side of the dam the coming season. This work was done by the department by day labor and it is hoped that it will prove substantial and lasting.

The 6-inch main has been extended in Washington Street and Park Avenue, Penacook, in order that the patrons of Contoocook River Park might have the benefit of Penacook Lake water.

There have been two other extensions of street pipes, one in Penacook Street, Penacook, south from Rolfe Street, and one in the Iron Works Road, west from South Street, in the city.

This season has seen practically the completion of the relaying of the cement-lined pipe laid in 1872, with cast-iron pipe, there now remaining but 1,200 feet, which will be replaced in 1909. This relaying, with the exception of what was done when the high service was installed, was begun in 1897, the work being done by the department by day labor and has been paid for wholly from the income from the water rates. With the increased size of mains the system is now in excellent condition for any demands that may be made upon it.

The following list is given, showing the extent of the relaying and the changes made in the sizes of the mains:

STREET.	Size. New.	Size. Old.
Main St., from Penacook St. to Margaret Pillsbury Hospital	10 in.	8 & 6 in.
State St., from dam at West Concord to Penacook St.	20	14
" from Penacook to Pleasant St.	20	14 & 12
" from Pleasant to West St.	14	10
" from West to South Main St.	12	8
Bradley St., from Perkins to Franklin St.	10	4
Jackson St., from Church to Washington St.	6	4
Lyndon St., from Church to Franklin St.	8	4
" from Beacon to Washington St.	6	4
Academy St., from Washington to Cambridge St.	6	4
Rumford St., from Church to Washington St.	8	8
Essex St., from Washington to Centre St.	6	4
Union St., from Washington to Centre St.	6	4
Spring St., from Washington to Pleasant St.	6	6
Merrimack St., from Centre to Orchard St.	6	6 & 4
Green St., from Centre to Pleasant St.	6	4
South St., from Pleasant to Noyes St.	12	6
South Spring St., from Pleasant to Clinton St.	8	4
South Fruit St., from Clinton to W. W. Critchett's.	6	4
Broadway, from Clinton to Allison St.	12	6
Gas, Water and Hall Sts.	10 & 8	4
Penacook St., from North State to North Main St.	10	6
Perkins St., from Bradley to Rumford St.	6	4
Walker St., from North State to Bradley St.	10	4
Church St., from North State to Rumford St.	6	4
Franklin St., from North Main to North State St.	6	4
" from North State to Rumford St.	10	6
Tremont St., from North State to Jackson St.	8	4
" from Jackson to Rumford St.	6	4
Pearl St., from North Main to North State St.	6	4
Beacon St., from Jackson to Rumford St.	6	4
Washington St., from North Main to North State St.	8	4
" from North State to Rumford St.	10	6
Chapel St., from North Main to North State St.	6	4
Court St., from North Main to North State St.	6	4
Montgomery St., from North Main to North State St.	6	4
Centre St., from North Main to Rumford St.	8	8 & 6
Park St., from North Main to North State St.	6	4
School St., from North Main to Holt St.	10	8, 6 & 4
Warren St., from North Main to Fruit St.	8	6 & 4
Pleasant St., from Main to State St.	10	6
" from State to South St.	12	6
" from South to Rumford St.	10	8 & 6
Wall St., from South State to South St.	6	4
Hill's Avenue and Railroad St.	6	4
Fayette St., from South Main to South St.	6	4
Thompson St., from South Main to South St.	6	4
Concord St., from South Main to South St.	6	4
Monroe St., from South State to South St.	6	4
Thorndike St., from South Main to South St.	10	6
Laurel St., from South State to South St.	6	4
Perley St., from South Main to Pierce St.	6	4
Downing St., from South State to South St.	6	4
West St., from South Main to South State St.	10	6
" from South State to South St.	12	6
Clinton St., from South to South Fruit St.	10	6 & 4
" from South Fruit St. to Fair Grounds	6	4
Allison St., from South Main to Dakin St.	6	4

CEMENT-LINED PIPE IN USE JANUARY 1, 1909.

Laid :

1872. Washington Street, 501 feet, 6-inch pipe.
Rumford Street, from Washington to School, 1,203 feet, 4-inch pipe.
1882. South Street, 2,301 feet, 6-inch pipe.
Rumford Street, from North State to Franklin, 3,290 feet, 12-inch.
18-inch main from dam to Rumford Street.
1885. Fruit Street, 1,437 feet, 4-inch pipe.
Giles Street, 772 feet, 4-inch pipe.
1886. Chestnut Street, from Valley to High, 373 feet, 6-inch pipe.
Valley Street, from High to Chestnut, 879 feet, 6-inch pipe.
High Street, from Centre to Valley, 757 feet, 6-inch pipe.
High Street, from Chestnut to Franklin, 461 feet, 6-inch pipe.
Franklin Street, east from High, 120 feet, 6-inch pipe.
1887. Pleasant Street, from Liberty to Fruit, 1,322 feet, 6-inch pipe.
St. Paul's School line.
Penacook.
Rumford Street, from Franklin to School, 2,671 feet, 12-inch.
Rumford Street, from School to Pleasant, 1,203 feet, 10-inch.

Following is appended the report of the engineer. It will be seen by comparing this report with that of last year, that there has been an increase of 45,319,988 gallons pumped and 70,822 pounds of coal consumed, which is accounted for by the extraordinarily dry season.

In closing this report, I wish to express my gratitude to the members of the board for their assistance and advice during the year.

Respectfully submitted,

P. R. SANDERS,

Superintendent.

**REPORT OF THE ENGINEER OF THE PUMPING
STATION.**

PUMPING STATION, CONCORD WATER-WORKS.

P. R. SANDERS, *Superintendent*:

SIR,—I would report that the pumping machinery at the pumping station is in good working order, and will need but few repairs the coming year.

Following will be found a statement of coal and other supplies used at the pumping station during the year, with a table showing the work for each month:

STATEMENT.

106 tons 852 pounds Andersen Forge coal.
152 tons 118 pounds Cumberland coal.
94 gallons of oil.
58 pounds of waste.
19 cords of wood.
13 pounds of grease.

CITY OF CONCORD.

ENGINE RECORD.

MONTHS.	No. of days pumping engine No. 1.			No. of days pumping engine No. 2.			Total days pumping.	Total hours pumping.	Average time pumping.	Total water pumped.	Daily average pumped.	Total coal consumed.	Daily average coal consumed.	Total pounds of wood consumed.	*Gallons pumped per pound of coal.
	No. 1.	No. 2.	Total	No. 1.	No. 2.	Total									
January ...	9	19	26	H. M.	H. M.										
February...	16	16	25	273:30	8:49	23,836,000									
March	15	16	26	319:	11:	26,202,068									
April	11	21	27	294:30	9:30	25,487,684									
May	13	18	26	292:30	9:45	24,942,174									
June	13	23	28	287:30	9:16	25,173,314									
July	19	26	30	351:30	11:43	32,194,394									
August ...	9	21	27	377:30	12:10	32,908,319									
September.	14	17	28	279:30	9:	24,247,031									
October	16	18	27	305:30	10:11	27,187,642									
November.	14	15	25	308:30	10:17	26,088,116									
December..	14	18	27	267:30	8:55	22,281,328									
				295:	9:30	24,627,672									
Total	163	228	322	3,652:	315,175,742									
Daily av'ge	9:58	861,135									

*Amount of coal consumed includes that used for starting fires, banking fires and heating buildings.

Amount of coal consumed per thousand gallons pumped, 1.83 pounds.

HENRY A. ROWELL,
Engineer.

APPENDIX.

A.

RECEIPTS FOR EACH YEAR SINCE THE CONSTRUCTION OF THE
WORKS.

For the year ending January 31, 1874,	\$4,431.10
For fifteen months ending April 1, 1875,	17,535.00
For the year ending April 1, 1876,	16,921.24
“ “ “ 1877,	19,001.07
“ “ “ 1878,	20,763.03
“ “ “ 1879,	21,869.86
“ “ “ 1880,	22,451.53
“ “ “ 1881,	26,744.58
For nine months ending December 31, 1881,	25,534.01
For the year ending December 31, 1882,	27,243.06
“ “ “ 1883,	28,255.48
“ “ “ 1884,	28,915.65
“ “ “ 1885,	30,222.54
“ “ “ 1886,	30,862.64
“ “ “ 1887,	34,047.52
“ “ “ 1888,	38,441.32
“ “ “ 1889,	40,237.53
“ “ “ 1890,	42,133.41
“ “ “ 1891,	46,075.16
“ “ “ 1892,	48,351.52
“ “ “ 1893,	52,299.66
“ “ “ 1894,	53,230.10
“ “ “ 1895,	55,343.19
“ “ “ 1896,	56,557.81
“ “ “ 1897,	55,156.42
“ “ “ 1898,	59,147.54
“ “ “ 1899,	53,953.13
“ “ “ 1900,	57,003.71
“ “ “ 1901,	62,253.61
“ “ “ 1902,	63,430.85
“ “ “ 1903,	65,088.45
“ “ “ 1904,	68,570.48

WATER DEPARTMENT.

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For the year ending December 31, 1905,	\$71,076.44
“ “ “ 1906,	73,063.45
“ “ “ 1907,	73,782.64
“ “ “ 1908,	71,362.67
Total receipts for 36 years,	<u>\$1,561,357.40</u>

B.

MEAN HEIGHT OF WATER EACH YEAR.

1873,	175.86	1891,	180.00
1874,	179.50	1892,	174.32
1875,	180.00	1893,	173.38
1876,	180.28	1894,	172.81
1877,	176.46	1895,	171.15
1878,	179.50	1896,	178.96
1879,	179.74	1897,	183.33
1880,	175.30	1898,	184.31
1881,	174.70	1899,	183.49
1882,	179.15	1900,	183.09
1883,	176.40	1901,	183.86
1884,	178.18	1902,	184.98
1885,	176.80	1903,	184.75
1886,	178.10	1904,	184.40
1887,	179.04	1905,	183.37
1888,	181.96	1906,	183.94
1889,	180.91	1907,	183.59
1890,	181.90	1908,	183.41

D.
FIRE-HYDRANTS.

STREETS.	LOCATIONS.	Number.	Total.		
North Main...	Southwest corner North Main and Penacook.....	1	27		
	East side North Main, near J. B. Walker's.....	1			
	Junction North Main and Fiske.....	1			
	East side North Main, near Larkin's store.....	1			
	Northwest corner North Main and Franklin.....	1			
	East side North Main, opposite Pearl.....	1			
	Northwest corner North Main and Washington.....	1			
	West side North Main, opp. Historical Society rooms..	1			
	East side North Main, opposite Chapel.....	1			
	Northwest corner North Main and Court.....	1			
	Northwest corner North Main and Pitman.....	1			
	Northwest corner North Main and Montgomery.....	1			
	East side North Main, opposite Montgomery.....	1			
	Northwest corner North Main and Centre.....	1			
	Southeast corner North Main and Bridge.....	1			
	Southwest corner North Main and Park.....	1			
	East side North Main, opposite Park.....	1			
	Northwest corner North Main and Capitol.....	1			
	Northwest corner North Main and School.....	1			
	West side North Main, at Centennial Block.....	1			
	East side North Main, opposite Centennial Block.....	1			
	East side North Main, in rear Eagle Hotel.....	1			
	East side North Main, in rear Woodward Block.....	1			
	Northwest corner North Main and Warren.....	1			
	West side North Main, at Central Block.....	1			
	Northeast corner North Main and Depot.....	1			
	South Main...	Northwest corner North Main and Pleasant.....		1	
		Southeast corner South Main and Pleasant.....		1	
		Northeast corner South Main and Freight.....		1	
		East side South Main, opposite Fayette.....		1	
		East side South Main, opposite Thompson.....		1	
Southeast corner South Main and Chandler.....		1			
Northwest corner South Main and Wentworth Avenue..		1			
Northwest corner South Main and Thorndike.....		1			
East side South Main, opposite St. John's Church....		1			
Northwest corner South Main and Perley.....		1			
West side South Main, near Abbot-Downing Co.'s....		1			
East side South Main, opposite Abbot-Downing Co.'s..		1			
East side South Main, near West.....		1			
Northeast corner South Main and Gas.....		1			
West side South Main, opposite Holt Bros. Mfg. Co....		1			
Southwest corner South Main and South State.....		1			
Northwest corner South Main and Pillsbury.....		1			
East side South Main, opposite Pillsbury.....		1			
West side South Main, opposite Langdon.....		1			
West side South Main, at J. H. Lamprey's.....		1			
West side South Main, at W. J. Sawyer's.....	1				
Water.....	West side Water, near Capt. James Thompson's.....	1	20		
	Hall.....	1			
Hall.....	West side Hall, opposite Rolfe and Rumford Asylum..	1	1		
	West side Hall, near E. W. Robinson's.....	1			
	West side Hall, near F. H. George's.....	1			
	West side Hall, opposite Hammond.....	1			
	West side Hall, below Hammond.....	1			
	East side Hall, opposite W. H. Page's.....	1			
	East side Hall, near Rumford Field.....	1			
	North side Hammond, near Bridge.....	1			
	Hammond....	North side Hammond, near Bridge.....		1	7
		Railroad.....		1	
Railroad.....	East side Railroad, opposite Ford & Kimball's.....	1	1		
Fiske.....	West side Fiske, near North State.....	1			
Summer.....	Northeast corner Summer and Pitman.....	1	1		
Durgin.....	East side Durgin, opposite Toof's laundry.....	1			

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Number.	Total.
North State...	Southwest corner North State and Penacook.....	1	13
	Northwest corner North State and Walker.....	1	
	Northwest corner North State and Church.....	1	
	Northeast corner North State and Franklin.....	1	
	Northwest corner North State and Tremont.....	1	
	Northeast corner North State and Washington.....	1	
	West side North State, opposite Court.....	1	
	Southwest corner North State and Maple.....	1	
	Southeast corner North State and Centre.....	1	
	Southeast corner North State and Park.....	1	
	Southwest corner North State and School.....	1	
	Southeast corner North State and Warren.....	1	
	Northwest corner North State and Pleasant.....	1	
South State...	East side South State, opposite Wall.....	1	7
	Northwest corner South State and Thompson.....	1	
	Southwest corner South State and Monroe.....	1	
	East side South State, opposite Laurel.....	1	
	Northeast corner South State and Downing.....	1	
Mills.....	Southwest corner South State and Harrison.....	1	2
	West side Mills, near Levi Call's.....	1	
Dakin.....	Northwest corner Mills and Allison.....	1	1
Dunklee.....	West side Dakin, near C. E. Harriman's.....	1	3
	West side Dunklee, 150 feet south of West.....	1	
Broadway....	Northwest corner Dunklee and Pillsbury.....	1	5
	West side Broadway at H. H. Metcalf's.....	1	
	Northwest corner Broadway and Allison.....	1	
	Northwest corner Broadway and Stone.....	1	
	West side Broadway at Rollins Park.....	1	
Green.....	West side Broadway, opposite McKinley.....	1	3
	Northwest corner Green and Prince.....	1	
	East side Green, opposite Prince.....	1	
South.....	Northwest corner Green and Warren.....	1	11
	West side South, opposite Wall.....	1	
	Northwest corner South and Thompson.....	1	
	West side South, opposite Monroe.....	1	
	West side South, opposite Laurel.....	1	
	West side South, opposite Downing.....	1	
	West side South, opposite Allison.....	1	
	West side South, near Abbot farm.....	1	
	West side South, opposite I. W. Bushey's.....	1	
	Northwest corner South and Rockingham.....	1	
East side South, at Quint's.....	1		
Bradley.....	West side South, near Bow line.....	1	4
	Southwest corner Bradley and Penacook.....	1	
	Northwest corner Bradley and Walker.....	1	
	East side Bradley, opposite Highlands.....	1	
Union.....	Northwest corner Bradley and Franklin.....	1	1
Jackson.....	Northwest corner Union and Maple.....	1	1
Lyndon.....	Northeast corner Jackson and Church.....	1	2
	Southwest corner Lyndon and Tremont.....	1	
North Spring..	East side Lyndon, opposite Abbott.....	1	3
	Northeast corner North Spring and Maple.....	1	
South Spring..	Southwest corner North Spring and Centre.....	1	3
	East side North Spring, opposite High School.....	1	
	Southwest corner South Spring and Oak.....	1	
Academy.....	West side South Spring, opposite Concord.....	1	3
	West side So. Spring, opp. Perlev proposed extension..	1	
Rumford.....	East side Academy, at William E. Dow's.....	1	1
	West side Rumford, south of cemetery gate.....	1	1

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Number.	Total.
Rumford.....	West side Rumford, opposite Perkins.....	1	
	Northeast corner Rumford and Albin.....	1	
	Northeast corner Rumford and Franklin.....	1	
	Northwest corner Rumford and Beacon.....	1	
	Northeast corner Rumford and Abbott.....	1	
	Northeast corner Rumford and Cambridge.....	1	
	Northeast corner Rumford and School.....	1	8
Huntington...	West side Huntington, at head of Short.....	1	1
Tahanto.....	Northwest corner Tahanto and School.....	1	1
Pine.....	Southwest corner Pine and Centre.....	1	2
	Southwest corner Pine and Warren.....	1	1
Holt.....	East side Holt, at Nason's.....	1	1
High.....	Northwest corner High and Auburn.....	1	
	East side High, opposite Forest.....	1	
	Southwest corner High and Franklin.....	1	3
Valley.....	Northeast corner Valley and Forest.....	1	1
Auburn.....	Northeast corner Auburn and Forest.....	1	1
Ridge Road...	West side Ridge Road, opposite J. B. Campbell's.....	1	1
Giles.....	Southeast corner Giles and School.....	1	1
Princeton....	Southwest corner Princeton and Clinton.....	1	2
	Northwest corner Princeton and Noyes.....	1	
Fruit.....	Northeast corner Fruit and Woodman.....	1	
	East side Fruit, opposite W. W. Critchett's.....	1	3
	East side Fruit, opposite Kilburn's.....	1	
Minot.....	West side Minot, near Odd Fellows' Home.....	1	
	West side Minot, near Odd Fellows' Home.....	1	3
	Northwest corner Minot and Pleasant.....	1	
Penacook....	South side Penacook, near Concord Lumber Co.....	1	
	South side Penacook, east of P. B. Co.'s bark house.....	1	
	South side Penacook, near P. B. Co.'s.....	1	
	South side Penacook, near P. B. Co.'s office.....	1	
	Southeast corner Penacook and North Main.....	1	
	Southwest corner Penacook and Rumford.....	1	7
	Southeast corner Penacook and Columbus Avenue.....	1	1
Walker.....	Southwest corner Walker and Martin.....	1	1
Albin.....	North side Albin, near D. Weathers'.....	1	1
Highland....	Northeast corner Highland and Rumford.....	1	1
Church.....	South side Church, east of Bradley.....	1	
	North side Church, opposite Lyndon.....	1	3
	Northeast corner Church and Rumford.....	1	
Franklin....	Northwest corner Franklin and Jackson.....	1	
	Northeast corner Franklin and Lyndon.....	1	
	Southwest corner Franklin and Rumford.....	1	
	South side Franklin, opposite W. J. Ahern's.....	1	5
	Northeast corner Franklin and Auburn.....	1	
Tremont....	North side Tremont, east of Harrod.....	1	
	Southwest corner Tremont and Jackson.....	1	2
Pearl.....	North side Pearl, at Kimball Flanders'.....	1	1
Beacon.....	North side Beacon, opposite Merrimack School.....	1	
	Northwest corner Beacon and Jackson.....	1	3
	South side Beacon, opposite Charles.....	1	1
Rowell.....	Northeast corner Rowell and White.....	1	1
Blanchard...	Northwest corner Blanchard and Essex.....	1	1
Ferry.....	North side Ferry, opposite Ford's foundry.....	1	
	North side Ferry, near N. E. Granite Works.....	1	
	North side Ferry, east of C. & M. R. R.....	1	
	Northwest corner Perry and Huntoon Avenue.....	1	4
Washington..	North side Washington, opposite Rollins Court.....	1	
	Southwest corner Washington and Union.....	1	
	Northeast corner Washington and Lyndon.....	1	
	Northwest corner Washington and Rumford.....	1	
	Northwest corner Washington and North Essex.....	1	

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Number.	Total.
Washington..	North side Washington, opposite Perry Avenue.....	1	6
Chapel.....	South side Chapel, near Methodist Church.....	1	1
Montgomery..	South side Montgomery, opposite Mrs. George Minot's..	1	1
Centre.....	Northeast corner Centre and North State.....	1	
	Southwest corner Centre and Green.....	1	
	Northwest corner Centre and Union.....	1	
	Northwest corner Centre and North Spring.....	1	
	Northwest corner Centre and Rumford.....	1	
	South side Centre, opposite Essex.....	1	
	Southwest corner Centre and Summit Avenue.....	1	
	Northeast corner Centre and Ridge Road.....	1	8
Bridge.....	South side Bridge, near easterly barn.....	1	
	North side Bridge, opposite Concord Coal Co.'s.....	1	
	North side Bridge, opposite Concord Shoe Factory.....	1	3
Park.....	North side Park, at St. Paul's Church.....	1	1
Capitol.....	Northeast corner Capitol and North State.....	1	1
School.....	Northwest corner School and Green.....	1	
	Northwest corner School and North Spring.....	1	
	Northwest corner School and Rumford.....	1	
	Northwest corner School and Merrimack.....	1	
	Northwest corner School and Pine.....	1	
	Northeast corner School and Liberty.....	1	
	North side School, opposite E. B. Woodworth's.....	1	7
Warren.....	Southeast corner Warren and Fremont.....	1	
	Northwest corner Warren and North Spring.....	1	
	Northwest corner Warren and Rumford.....	1	
	Southwest corner Warren and Merrimack.....	1	
	Northwest corner Warren and Tahanto.....	1	
	Northeast corner Warren and Liberty.....	1	
	Northeast corner Warren and Giles.....	1	
Depot.....	Junction of Warren and Pleasant, near Fruit.....	1	8
	South side Depot, at north end of train shed.....	1	
Blake.....	Northwest corner Depot and Railroad Square.....	1	2
Orchard.....	South side Blake, at J. D. Bridge's.....	1	1
Pleasant.....	South side Orchard, opposite Sherburne's.....	1	1
	Northwest corner Pleasant and Railroad Square.....	1	
	Southeast corner Pleasant and South.....	1	
	Northeast corner Pleasant and Fremont.....	1	
	Southwest corner Pleasant and Spring.....	1	
	South side Pleasant, opposite Rumford.....	1	
	South side Pleasant, opposite Merrimack.....	1	
	South side Pleasant, opposite Pine.....	1	
	South side Pleasant, opposite Liberty.....	1	
	North side Pleasant, near city stable.....	1	
	South side Pleasant, near Gale.....	1	
	South side Pleasant, opposite Mrs. Aiken's.....	1	
	South side Pleasant, near Mrs. Eddy's cottage.....	1	
	North side Pleasant, near James Lane's.....	1	
	North side Pleasant, near J. McC. Hammond's.....	1	
	South side Pleasant, opposite Fiske Road.....	1	
	Southwest corner Pleasant and School Avenue.....	1	
	North side Pleasant, opposite infirmary.....	1	
	South side Pleasant, in field near gasometer.....	1	
	South side Pleasant, near new Upper School.....	1	19
Mill Road...	East side Mill Road, near laboratory.....	1	
St. P. School..	North side Mill Road, at Orphans' Home.....	1	
	South side Mill Road at tenement No. 7.....	1	3
Old Hopkint'n Road.....	Junction old and new Hopkinton roads.....	1	1
Wall.....	Northeast corner Wall and Elm.....	1	1
Marshall.....	North side Marshall, opposite Fuller.....	1	1
Freight.....	North side Freight, at southwest cor. passenger station.	1	1

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Number.	Total.
Hill's Avenue.	Southwest corner Hill's Avenue and Railroad Square.	1	
	Northeast corner Hill's Avenue and South Main.	1	2
Fayette.	Northwest corner Fayette and Elm.	1	1
Thompson.	North side Thompson, opposite Jefferson.	1	1
Chandler.	South side Chandler, opposite Railroad.	1	1
Concord.	Southwest corner Concord and South State.	1	
	Northwest corner Concord and Jefferson.	1	
	Northeast corner Concord and South.	1	3
Monroe.	North side Monroe, opposite Grove.	1	1
Thorndike.	Northeast corner Thorndike and Grove.	1	
	North side Thorndike, opposite Pierce.	1	
	Northeast corner Thorndike and South Spring.	1	3
Laurel.	Northwest corner Laurel and Grove.	1	
	Northwest corner Laurel and Pierce.	1	2
Perley.	Southwest corner Perley and South State.	1	
	Northwest corner Perley and Grove.	1	
	Northeast corner Perley and Pierce.	1	
	South side Perley, near old brook.	1	4
Downing.	South side Downing, opposite Grove.	1	
	Southeast corner Downing and Mills.	1	
	Southwest corner Downing and Redwood Avenue.	1	3
Clinton.	North side Clinton, opposite Harvard.	1	
	North side Clinton, opposite Avon.	1	
	Northeast corner Clinton and Fruit.	1	
	North side Clinton, near Snell's.	1	
	North side Clinton, at State Fair grounds.	1	5
West.	North side West, near South Main.	1	
	North side West, near Badger.	1	
	Northeast corner West and Mills.	1	
	North side West, opposite Dakin.	1	
	Northwest corner West and Broadway.	1	5
Avon.	Northwest corner Avon and South.	1	1
Harrison.	Northwest corner Harrison and Morton.	1	1
Humphrey.	North side Humphrey, near Kimball.	1	1
Allison.	Northeast corner Allison and Badger.	1	1
Pillsbury.	North side Pillsbury, opposite Foster Ward.	1	
	Northeast corner Pillsbury and Broadway.	1	3
	Northwest corner Pillsbury and Kimball.	1	
Carter.	Northeast corner Carter and Eastman.	1	1
Stone.	North side Stone, 300 feet from Bow.	1	1
Holly.	North side Holly, opposite W. D. Thompson's house.	1	1
Rockingham.	Northeast corner Rockingham and Broadway.	1	1
Iron Works Rd	South side Iron Works Road, at Brown's.	1	1
Prospect.	Northwest corner Prospect and Granite Avenue.	1	1
Curtice Ave.	North side Curtice Avenue, near John C. Kenney's.	1	1
North State.	West side North State, at Water-Works storehouse.	1	
	Northeast corner North State and Foster.	1	
	Northeast corner North State and Curtice Avenue.	1	
	East side North State, near W. H. Perry's.	1	
	East side North State, near north entrance Blossom Hill Cemetery.	1	
	West side North State, near Calvary Cemetery.	1	
	East side North State, near A. L. Coburn's.	1	
	East side North State, near Thomas Fox's house.	1	
	West side North State, at south line of prison wall.	1	
	West side North State, at north line of prison wall.	1	
	East side North State, near Asa L. Gay's.	1	
	Northwest corner North State and Palm.	1	
	West side North State, near Concord Woodworking Co.	1	
	East side North State, near C. H. Farnum's.	1	
	East side North State, near Cyrus R. Farnum's.	1	
	East side North State, near M. H. Farnum's.	1	

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Number.	Total.
North State...	East side North State, opposite Dolan.....	1	
	East side North State, opposite John H. Flood's.....	1	
	West side North State, opposite S. Abbott's.....	1	19
Palm.....	North side of Palm, west of Fairbanks.....	1	1
WEST CONCORD.			
North State..	Southeast corner North State and K.....	1	
	Northeast corner North State and Peabody.....	1	
	East side North State, at George Partridge's.....	1	
	East side North State, near engine house.....	1	
	East side North State, opposite D. Holden's.....	1	
	West side North State, near west mill.....	1	
	East side North State, opposite Simeon Partridge's.....	1	
	East side North State, near Mr. Harrington's.....	1	
	East side North State, opposite A. Hollis'.....	1	
	East side North State, near Sewall's Falls Road.....	1	10
Electric.....	Northeast corner of Electric and North State.....	1	
	North side Electric, near power station.....	1	2
Clarke.....	Northeast corner Clarke and Fisher.....	1	1
Lake.....	East side Lake, near S. W. Kellom's.....	1	
	East side Lake, near Mrs. G. E. Holden's.....	1	2
Knight.....	South side Knight, opposite railroad station.....	1	1
Hutchins.....	North side Hutchins, near B. T. Putney's.....	1	
	North side Hutchins, near C. & C. Railroad.....	1	2
Penacook Rd..	West side Penacook Road, near Warner Road.....	1	1
PENACOOK.			
Main.....	West side Main, near Mr. Currier's.....	1	
	West side Main, at Woodlawn Cemetery.....	1	
	West side Main, opposite Stark.....	1	
	West side Main, near Prescott's.....	1	
	Southwest corner Main and Union.....	1	
	Washington Square, opposite Washington.....	1	
	Northwest corner Main and Charles.....	1	
	North side Main, opposite East Canal.....	1	
	North side Main, near iron bridge.....	1	9
West Main...	West side West Main, opposite cemetery.....	1	
	West side West Main, at Pine.....	1	2
High.....	East side High, opposite Summit.....	1	
	Northwest corner High and Maple.....	1	
	Northwest corner High and Spring.....	1	3
Washington..	Southeast corner Washington and Union.....	1	
	South side Washington, opposite John Whitaker's.....	1	
	South side Washington, opposite Charles.....	1	
	South side Washington, near Contoocook bridge.....	1	4
Elliott.....	Northeast corner Elliott and Park Avenue.....	1	1
Charles.....	Southwest corner Charles and Warren.....	1	
	North side Charles, near George W. Corey's.....	1	2
West Canal...	Southeast corner West Canal and Warren.....	1	1
East Canal...	North side East Canal, near Contoocook Mfg. Co.....	1	
	North side East Canal, near Crescent.....	1	2
Crescent....	West side Crescent, north of Canal.....	1	1
Merrimack...	South side Merrimack, opposite Merrimack Avenue.....	1	
	North side Merrimack, opposite D. W. Fox's.....	1	
	North side Merrimack, opposite Cross.....	1	
	South side Merrimack, opposite Rolfe's shop.....	1	
	South side Merrimack, opposite Symonds' factory.....	1	
	North side Merrimack, near road to Island.....	1	
	Northwest corner Merrimack and Penacook.....	1	7
Summer.....	North side Summer, opposite High.....	1	

FIRE-HYDRANTS.—*Concluded.*

STREETS.	LOCATIONS.	Number.	Total.
Summer.....	Northeast corner Summer and Centre.....	1	2
Spring.....	Northeast corner Spring and Church.....	1	1
Maple.....	Northeast corner Maple and Pleasant.....	1	1
Winter.....	North side Winter, near Pleasant.....	1	1
Centre.....	Northwest corner Centre and Spring.....	1	1
Cross.....	Southwest corner Cross and Summer.....	1	1
Rolfe.....	North side Rolfe, near James Corbett's.....	1	1
	Northwest corner Rolfe and Penacook.....	1	2
Penacook....	West side Penacook, opposite A. W. Rolfe's.....	1	1
	West side Penacook, at E. L. Davis'.....	1	1
	East side Penacook, at John Chadwick's.....	1	3
	Whole number public hydrants.....		372
	PRIVATE HYDRANTS.		
	Concord Shoe Factory.....	1	
	Boston & Maine Railroad, upper yard.....	4	
	Boston & Maine Railroad, new shops.....	15	
	State Prison.....	6	
	Abbot-Downing Co.'s yard.....	6	
	Page Belting Co.'s yard.....	10	
	W. P. Ford & Co.'s yard.....	1	
	N. H. State Hospital yard.....	10	
	Concord Gas Light Co.'s yard.....	1	
	St. Paul's School.....	1	
	Water Works Pumping Station grounds.....	1	
	Wm. B. Durgin Co.....	1	
	N. H. Spinning Mill.....	4	
	Crescent Worsted Co.....	2	
	Whole number private hydrants.....		63