

of C. E. Robinson, Penacook Street. First run for auto. No loss.

STILL. November 30, 9.15 a. m. Chimney fire in residence of Charles Peaslee, Mill Street. No loss.

STILL. December 14, 2 p. m. Chimney fire in residence of Mrs. Fred Farnum, Penacook Street. No loss.

WEST CONCORD.

STILL. February 4, 4.05 p. m. Chimney fire in residence of Frances Partridge, 449 North State Street. No loss.

STILL. February 26, 3.45 p. m. Chimney fire in residence of John E. Ryan, 422 North State Street. No loss.

STILL. February 27, 7.15 p. m. Chimney fire in residence of Patrick Conway, 486 North State Street. No loss.

STILL. March 3, 6 p. m. Chimney fire in Shepard Bros.' store, 490 North State Street. No loss.

STILL. March 3, 7.05 p. m. Chimney fire in Shepard Bros.' store, 490 North State Street. Second call. No loss.

BELL. April 21, 5.40 p. m. Brush fire on city land, near Penacook Lake. Labored one hour. No loss.

BELL. April 22, 9.45 a. m. Brush fire, North State Street, on land owned by Abijah Hollis. No loss.

STILL. April 22, 10.30 p. m. Grass fire on land owned by Charles B. Clark, near Boston & Maine Railroad. No loss.

STILL. April 24, 5.35 p. m. Chimney fire in residence of E. H. Rogers, Second Street. No loss.

STILL. April 25, 11.15 a. m. Brush fire on city land, near Penacook Park. No loss.

BELL. April 25, 11.45 a. m. A call for assistance from scene of preceding fire. Labored two hours. Loss trifling.

BELL. April 28, 10.20 p. m. Barn owned and occupied by the John Swenson Granite Company, with contents con-

sisting of four horses, hay, harness, etc., destroyed. Cause unknown. One thousand, four hundred feet of hose wet. See precinct report, same date.

	Value.	Loss.	Ins.	Ins. Paid.
Building,	\$1,500.00	\$1,500.00	None.	None.
Contents,	2,000.00	2,000.00	None.	None.

STILL. May 24, 8 a. m. Slight fire in roof of stone crusher building, North State Street. Loss trifling.

STILL. May 27, 8.03 p. m. Chimney fire in residence of John A. Anderson, 414 North State Street. No loss.

STILL. June 2, 7.45 p. m. Brush fire on land owned by the Concord Electric Company, near Sewall's Falls. Labored three hours. No loss.

BELL. June 3, 11 a. m. Chimney fire in residence owned by the Concord Electric Company, on the Sewall's Falls Road, known as the Stewart house.

	Value.	Loss.	Ins.	Ins. Paid.
Building,	\$1,200.00	\$25.00	\$1,200.00	\$25.00

STILL. September 2, 3.45 p. m. Chimney fire in residence of Willis Kellom, 412 North State Street. No loss.

STILL. November 7, 9 a. m. Chimney fire in residence of Joseph Turcotte, 40 Hutchins Street. No loss.

STILL. November 13, 5.25 p. m. Chimney fire in residence of Charles B. Clark, Clark Street. No loss.

STILL. December 5, 8.30 p. m. Chimney fire in residence of Harry A. Danforth, 491 North State Street. No loss.

STILL. December 6, 6.30 p. m. Grass fire on land owned by Charles B. Clark and Andrew J. Abbott, near Boston & Maine Railroad. No loss.

STILL. December 10, 5.15 p. m. Chimney fire in residence of Carl Makin, Penacook Road. No loss.

STILL. December 11, 3.50 p. m. Chimney fire in residence of Fred A. Eastman, 504 North State Street. Loss trifling.

SUMMARY.

Buildings:	Value.	Loss.	Ins.	Ins. Paid.	Net Loss.
Precinct,	\$138,315.00	\$37,843.33	\$92,905.00	\$16,262.33	\$21,581.00
Penacook,	6,700.00	1,478.95	4,600.00	1,078.95	400.00
East Concord,	3,500.00	42.00	2,700.00	42.00	.....
West Concord,	2,700.00	1,525.00	1,200.00	25.00	1,500.00
	<u>\$151,215.00</u>	<u>\$40,889.28</u>	<u>\$101,405.00</u>	<u>\$17,408.28</u>	<u>\$23,481.00</u>
Contents:					
Precinct,	\$57,611.70	\$12,277.35	\$29,475.00	\$5,178.65	\$7,098.70
Penacook,	9,300.00	212.95	2,800.00	212.95	.....
West Concord,	2,000.00	2,000.00	.....	.....	2,000.00
	<u>\$68,911.70</u>	<u>\$14,490.30</u>	<u>\$32,275.00</u>	<u>\$5,391.60</u>	<u>\$9,098.70</u>
Buildings,	<u>151,215.00</u>	<u>40,889.28</u>	<u>101,405.00</u>	<u>17,408.28</u>	<u>23,481.00</u>
Buildings and contents,	\$220,126.70	\$55,379.58	\$133,680.00	\$22,799.88	\$32,579.70

APPARATUS AND FORCE.

The apparatus and force of the department is as follows:

Precinct, located at the Central Fire Station, one first-class Amoskeag engine, "Eagle," with modern hose wagon, attached to Eagle Steam Fire Engine Company (13 men); one second-class Amoskeag engine, "Kearsarge," and modern hose wagon, attached to the Kearsarge Steam Fire Engine Company (14 men); one second-class Amoskeag engine, "Governor Hill," relief engine, in charge of an engineer and fireman; and one auto-combination car in charge of five permanent men; one ladder truck, "City of Concord," attached to Hook and Ladder Company (21 men); one house man at Central Fire Station. There are ten horses kept at this station. There are nine permanent men located at the Central Fire Station and one permanent man at each fire station within the precinct.

The Alert Hose Company (11 men), located on Washington Street, has a modern hose wagon with permanent man and two horses.

The Good Will Hose Company (11 men), located on the corner of Concord and South State Streets, has an auto-combination car with permanent man.

Veterans' Auxiliary Company (30 men).

One hook and ladder truck, one hose reel, one chemical engine, one hand engine and two wagons in reserve.

The "Pioneer" Engine Company, No. 3 (28 men), at Penacook, has a third-class Metropolitan engine, with two hose wagons.

The Cataract Company (30 men), at West Concord, has an auto-combination car and a modern hose wagon.

Old Fort (30 men), East Concord, has a 4½-inch cylinder Hunneman hand engine and hand ladder truck, and one hand-drawn chemical engine, 50-gallon, single tank, and one auto-combination car.

HOSE.

Precinct,	11,000 feet cotton, rubber lined.
Penacook,	3,200 " " " "
West Concord,	1,400 " " " "
East Concord,	500 " " " "
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	16,100 " " " "

PUBLIC RESERVOIRS.

	Capacity Cubic Feet.
1. Main Street, rear Court House,	2,000
2. State Street, corner Washington Street,*	2,000
3. Rumford Street, near Mrs. Josiah Minot's,	1,000
4. Orchard Street, corner of Pine Street,*	4,000
5. School Street, corner of Summit Street,*	3,500

* Brick cemented.

FIRE-ALARM TELEGRAPH.

NUMBER, LOCATION, ETC.

For the purpose of uniformity in numbering the fire-alarm boxes, the city is divided into six districts, viz.:

DISTRICT 1. Embraces that section of the city north and west of Washington Street, Box 17 of this division being located on the south side of the street.

DISTRICT 2. Embraces all between School and Washington Streets.

DISTRICT 3. Embraces all between Pleasant and School Streets.

DISTRICTS 4, 5 AND 6. Embrace all south of Pleasant Street.

The first figure of the box number will indicate the district.

DISTRICT No. 1.

- 9. New Hampshire State Prison.
- 12. Curtice Avenue.
- 13. Franklin and Rumford.
- 14. Bradley and Walker.
- 15. Main and Church.
- 16. Franklin and Jackson.
- 17. Alert Hose House.
- 18. C. S. Gale's Store.
- 19. Centre and Liberty.
- 131. Franklin and Charles.
- 191. Auburn and Granite.

DISTRICT No. 2.

- 21. State, opposite Court.
- 23. Main and Chapel.
- 24. Main and Centre.
- 25. Main and School.

CITY OF CONCORD.

26. Centre and Union.
27. School and Merrimack.
28. School and Spring.
29. Centre and Essex.

DISTRICT No. 3.

32. Warren and Pine.
34. Central Fire Station.
35. Martin's Drug Store.
36. Pleasant and Spring.
37. Pleasant and North Fruit.
38. Orchard and Merrimack.

DISTRICT No. 4.

41. South and Thompson.
42. Good Will Hose House.
43. Main and Fayette.
45. Nelson & Durrell's Store.
46. Perley and Grove.
47. South, opposite Downing.
48. Thorndike and South.
49. West and Mills.
412. Wall and Elm.
413. Main, opposite Thorndike.
414. State and West.
471. Clinton and South Fruit.

DISTRICT No. 5.

51. Boston & Maine Railroad, new shops.
52. South Main and Allison.
53. Hall and Hammond.
54. Broadway and Pillsbury.
56. St. Paul's School.

- 57. Pleasant View.
- 521. Broadway and Rockingham.
- 522. South Main and Holly.

DISTRICT No. 6.

- 62. South Main, opposite Holt Bros.

PRIVATE BOXES.

- 5. Boston & Maine Railroad, north end passenger depot.
- 6. The Abbot & Downing Company.
- 7. New Hampshire State Hospital.
- 8. Page Belting Company.
- 9. Three boxes inside New Hampshire State Prison.
- 33. State House.
- 39. Odd Fellows' Home.
- 55. Boston & Maine Railroad, old repair shops.
- 92. New England Box Company.

FIRE-ALARM SIGNALS.

Alarms rung in from Boxes 41, 42, 43, 45, 46, 47, 48, 49, 412, 413, 414, 471, 51, 52, 53, 54, 55, 56, 57, 62, 521 and 522, will not be responded to by the Alert Hose Company until signaled. The signal to proceed to the fire will be four blows or second alarm, excepting alarms rung in from Box 56.

Alarms rung in from Boxes 8, 9, 12, 13, 14, 15, 16, 17, 18, 19, 131, 191, 21, 23, 26, 27, 29, 32, 37, 39, 92 and 56 will not be responded to by the Good Will Hose Company until signaled. It will be governed by the same signals governing Alert Hose Company. The Alert Hose and Good Will Hose Companies will hitch up and remain in readiness 20 minutes after the first alarm, to all boxes not responded

to on first alarm. Then, receiving no signal, the officers in charge shall dismiss their companies.

Alarms rung in from Boxes 12, 37, 53, 54, 57, 191, 471 and 521 will not be responded to by the Kearsarge Company on first alarm.

The signal to proceed to the fire will be two blows, four blows, or second alarm, as circumstances may warrant.

Kearsarge Steamer to all calls except 51.

Eagle Hose Company to all calls.

Eagle Steamer to Box 6, on first alarm; to Boxes 23, 24, 25, 33, 34, 35, 42, 43, 45 and 413, on second; to all others on third, except 9 and 56.

Governor Hill Steamer will respond to Boxes 7, 8, 9, 39 and 92 on first alarm; to Boxes 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 131, 191, 21, 26, 27, 28, 29, 32, 36, 37, 38, 41, 46, 47, 48, 49, 412, 414, 471, 52, 54, 55, 57, 62, 521 and 522, on second; to all others on third.

Combination Company will respond to all box alarms.

Veterans' Auxiliary Company will respond to all third alarms occurring before the recall, whether emanating from same box or not.

Two rounds of 11 strokes each will signalize the requirement of assistance out of town, and will be responded to by a detail of three men from each company, appointed for the purpose, and by those alone.

Two additional blows will indicate that the call for assistance emanates from East Concord. Such apparatus will be detailed as circumstances warrant. In case further aid is necessary, Box 34 (Central Station) will follow.

All-out signal, three strokes of the bell.

BRUSH FIRE SIGNAL.

Three rounds of four strokes each will be sounded on the bells and will be responded to by a detail of four men from each company, appointed for the purpose, and by those alone.

MILITARY SIGNAL.

Two rounds of 3-1-2.

SIGNALS FOR CLOSING SCHOOLS.

Two strokes of the bell given three times, with a pause of 15 seconds between the rounds.

The signal to close for the forenoon session will be given at 8 o'clock a. m.

The signal to close for the afternoon session will be given at 1 o'clock p. m.

The signal to close all schools for one session will be given at 11.30 a. m.

TESTING SIGNALS.

For the purpose of testing the condition and accuracy of the fire-alarm telegraph, a box alarm will be rung in every Monday afternoon at 4.30 o'clock precisely. It will be one single round only, indicating by the strokes on the bells the number of the box. The boxes used for this purpose will vary each week, alternating in the circuits.

Upon each other week-day a single blow upon the bells will be rung in from a box, alternating as before mentioned.

THE FIRE-ALARM TELEGRAPH.

is the "Gamewell" patent. It embraces 42 miles of wire.

On the lines are 46 fire-alarm boxes belonging to the city, and 9 private boxes— in all, 55. There are three alarm bells, one of 3,724 pounds (bell metal), one of 3,740 pounds (bell metal), and one of 2,000 pounds (American steel). There are also 16 mechanical tappers, 40 direct action tappers, one four-circuit repeater, and six indicators.

The battery consists of 259 storage battery cells.

The alarm system was installed in 1880 by the Gamewell Fire-Alarm Telegraph Company.

DIRECTIONS FOR GIVING AN ALARM.

Above all things, keep cool.

To obtain the key to the box, break the glass in the key box located beneath the alarm box.

In each box there is a small bell called a "tell-tale," designed expressly for the purpose of informing you whether an alarm is being transmitted the instant you open the door.

Open the box, and if this bell is not heard, pull down the hook once only and let go.

But if this bell should be heard, it would indicate that another box had been pulled, and it would be useless to attempt to pull another until the one already pulled had performed its mission.

Wait until 20 seconds have elapsed after the "tell-tale" has stopped ringing, close the door, which will restore the armature to the position it left when the door was opened.

Open the door, pull down the hook once only and let go.

Should there be no response, pull it again.

Then should there be no response, go to the next box.

Unless your presence is most urgently required at the scene of the fire, remain at the box to direct the department.

Never open the box or touch anything pertaining to it except in case of fire.

Never give an alarm for a fire seen at a distance.

Be reasonably sure that there is a fire before giving an alarm.

Never give an alarm for a chimney fire unless there is imminent danger of the building catching.

PENACOOK FIRE-ALARM TELEGRAPH.

NUMBER, LOCATION, ETC.

W. C. Green, Chief Engineer:

I herewith submit for your consideration the following report of the Penacook fire-alarm telegraph system: The system is the Gamewell patent, and consists of five miles of No. 9 iron wire. On the lines are fourteen boxes owned by the city, two private boxes, one 1,500-pound bell, one indicator, three mechanical gongs and three direct-action tappers. The battery consists of forty-two storage battery cells. There has been added one new box the past year, Box 43, corner of Spring and Centre Streets. I would respectfully recommend the addition to the system of one new box the coming year.

Respectfully submitted,

FRED M. DODGE,
Superintendent of Fire-Alarm.

LOCATION OF BOXES.

31. Elm Street, near S. N. Brown's house.
34. Charles Street, near schoolhouse.
35. Washington Square.
36. Washington, near sawmill.
37. Washington Street, near outlet.
38. Junction of West Main and South Main Streets.
39. South Main Street, near cemetery.
41. Corner of Centre and East Canal Streets.
42. High Street, opposite Maple Street.
43. Spring and Centre Streets.
45. Summer Street, opposite Church Street.
46. Merrimack Street, opposite Cross Street.
47. Merrimack Street, near Hose House.
48. Corner Penacook and Rolfe Streets.

PRIVATE BOXES.

- 25. Hoyt Electrical Instrument Works.
- 62. Concord Axle Works.

ALL-OUT SIGNAL.

Three strokes of the bell.

BRUSH FIRE SIGNAL.

Three rounds of four strokes each.

OUT OF TOWN SIGNAL.

Two rounds of eleven strokes each.

FOR FIRE ON BOSCAWEN SIDE.

Box 35, with two additional strokes.

SIGNALS FOR CLOSING SCHOOLS.

After this date the High School and Summer Street School will not be closed by signal.

The Charles Street School and the Elementary Grades in Main Street School will be closed whenever the signal is sounded. When sounded at 7.30 a. m., there will be no morning session of these schools; when sounded at 12.15 p. m., there will be no afternoon session.

The signal used will be the same as heretofore:—Two strokes of the fire-alarm bell given three times with a pause of fifteen seconds between the rounds (2—2—2). Jan. 25, 1915.

TESTING SIGNALS.

For the purpose of testing the condition and accuracy of the fire-alarm telegraph, a box alarm will be rung in every Saturday afternoon at 12.50 o'clock precisely. It will be

one single round only, indicating by the strokes on the bells the number of the box. The boxes used for this purpose will vary each week, alternating in the circuits.

Upon each other week-day a single blow upon the bells will be rung in from a box, alternating as before mentioned.

The Penacook fire-alarm system was installed in June, 1908, under direction of the chief engineer.

ROLL OF THE FIRE DEPARTMENT, 1915.

Permanent Chief Engineer.

WILLIAM C. GREEN, Office, Central Fire Station.

Assistant Engineers.

PRECINCT.

WALTER J. COFFIN, 1st Asst., Shipping clerk, 60 Pleasant Street.
 SYLVESTER T. FORD, 2d Asst., Molder, 41 So. Main Street.
 WALTER J. COFFIN, Clerk of the Board.

WARD 1.

FRED M. DODGE, Electrical Inst. maker, 61 Merrimack Street.

WARD 2.

ELBRIDGE EMERY, Butcher, Potter St., East Concord.

WARD 3.

GEORGE W. KEMP, Overseer, 16 Fisher St., West Concord.

KEARSARGE STEAM FIRE ENGINE AND HOSE COMPANY, NO. 2.

OFFICERS.

J. EDWARD MORRISON, *Captain.* CHARLES POWELL, *Lieutenant and Clerk.*
 JAMES H. SANDERS, *Engineer and Treasurer.*

MEMBERS.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
1	J. Edward Morrison,	Machinist,	8 Thorndike Street.
2	Charles Powell,	Machinist,	75 Centre Street.
3	James H. Sanders,	Carriage painter,	45 Perley Street.
4	Thomas J. Morrison,	Carriage painter,	32 Downing Street.
5	George B. Davis,	Carriage painter,	3 South Main Street.
6	Herbert M. Sanders,	Collector,	Fowler Block.
7	Harry P. Blake,	Machinist,	8 Thorndike Street.
8	Harry L. Messer,	Machinist,	3 Broadway.
9	W. C. B. Saltmarsh,	Carriage Trimmer,	41 Thorndike Street.
10	George L. Livingston,	Gas inspector,	38 Jackson Street.
11	Harry C. Taylor,	Machinist,	2 No. State Street.
12	George H. Abbott,	Shipping clerk,	63 School Street.
13	Joseph H. Brunel,	Permanent Driver,	Central Station.
14	Henry E. Drew,	Permanent Driver,	Central Station.

EAGLE STEAM FIRE ENGINE AND HOSE COMPANY, NO. 1.

OFFICERS.

J. C. MCGILVRAY, *Captain.*D. J. ADAMS, *Lieutenant and Clerk.*

MEMBERS.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
18	John C. McGilvray,	Jig-sawyer,	9 Pearl Street.
19	David J. Adams,	Janitor,	107 North Main Street.
20	Charles H. Sanders,	Machinist,	11 Chapel Street.
21	Orrin C. Hodgdon,	Engineer,	31 Beacon Street.
25	Willis J. Sawyer,	Machinist,	44 Thorndike Street.
23	John M. Inman,	Carriage painter,	16 Wall Street.
24	John B. McLeod,	Electrician,	5 Rumford Street.
22	Eli Langlois, Jr.,	Painter,	5 Perry Avenue.
26	Charles W. Bateman,	Plumber,	3 Maple Street.
27	P. J. O'Connell,	Silversmith,	38 No. Spring Street.
28	F. H. Fowler,	Electrician,	34 North Spring Street.
29	H. E. Kendall,	Electrician,	11 Pleasant Street.
30	Christopher Cunningham,	Permanent driver,	Central Station.

GOVERNOR HILL STEAMER, NO. 4.

RELIEF ENGINE.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
34	Elmer H. Farrar, <i>Engineer,</i>	Machinist,	78 South State Street.
35	Henry O. Powell, <i>Fireman,</i>	Blacksmith,	81 So. State Street.

ALERT HOSE COMPANY, NO. 2.

OFFICERS.

ERNEST E. SABEN, *Captain.*CHARLES C. CHESLEY, *Lieutenant and Clerk.*J. M. DAVIS, *Treasurer.*

MEMBERS.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
36	E. E. Saben,	Car-builder,	88 North State Street.
37	C. C. Chesley,	Builder,	11 Prince Street.
39	C. J. French,	Mayor,	5 Perkins Street.
40	C. H. Rowell,	Builder,	5 Abbott Court.
42	F. P. McKenna,	Clerk,	19 Franklin Street.
43	J. M. Davis,	Blacksmith,	4 Tahanto Street.
45	M. G. Davis,	Builder,	6 Beacon Street.
38	George L. Osgood,	Clerk,	9 Thompson Street.
41	J. E. Howard,	Wood-worker,	9 Montgomery Street.
44	D. J. Murphy,	Molder,	2 No. State Street.
46	F. H. Silver,	Permanent driver,	Alert Station.

GOOD WILL HOSE COMPANY, NO. 3.

OFFICERS.

HIRAM T. DICKERMAN, *Captain.* FRANK S. PUTNAM, *Lieutenant and Clerk.*
ALBERT W. THOMPSON, *Treasurer.*

Badge		MEMBERS.	
Nos.	Names.	Occupations.	Residences.
50	Hiram T. Dickerman,	Painter,	36 Broadway.
51	Frank S. Putnam,	Wood-worker,	48 South Main Street.
52	George H. Sawyer,	Blacksmith,	5 Allison Street.
54	Jasper R. Mudgett,	Wood-worker,	98 South State Street.
55	Henry H. Ash,	Machinist,	23½ Perley Street.
57	Albert W. Thompson,	Janitor,	74 Allison Street.
58	Harry L. Peacock,	Painter,	36 Warren Street.
59	Herbert F. Ferrin,	Electrician,	104 South State Street.
53	John W. McGowan,	Plumber,	Good Will Station.
56	J. E. Cochran,	Molder,	38 Downing Street.
60	William T. Happny,	Permanent driver,	Good Will Station.

CITY OF CONCORD HOOK AND LADDER COMPANY, NO. 1.

OFFICERS.

WILL A. KING, *Captain.* ED. E. LANE, *Lieutenant and Clerk.*

Badge		MEMBERS.	
Nos.	Names.	Occupations.	Residences.
64	Will A. King,	Machinist,	38 Franklin Street.
65	Ed. E. Lane,	Wood-worker,	5 Fremont Street.
66	Frank T. Bean,	Wood-worker,	16 Avon Street.
67	Benjamin Ouillette,	Wood-worker,	10 Jefferson Street.
68	Henry V. Tittimore,	Teamster,	57 Dunklee Street.
69	Lucius D. Caldon,	Wood-worker,	13 West Street.
70	George W. Grover,	Wood-worker,	29 Thorndike Street.
71	Daniel Crowley,	Coachman,	130 Warren Street.
72	Stephen P. Foster,	Wood-worker,	14 Wall Street.
73	Sam B. Morgan,	Wood-worker,	10 Avon Street.
74	Bion W. Hall,	Carpenter,	15 Humphrey Street.
75	Edwin H. French,	Wood-worker,	30 Green Street.
76	D. Charles Parker,	Renovater,	63 South Street.
77	Ned E. Herrin,	Carpenter,	Ins. Blk., School Street.
78	Carmi L. King,	Machinist,	64 Rumford Street.
79	Louis Cote,	Carpenter,	34 Downing Street.
80	Clarence L. Clark,	Clerk,	71 South Street.
81	Bert J. Heath,	Wood-worker,	92 West Street.
82	William H. Reagan,	Steam fitter,	53 South Main Street.
83	Harry Leary,	Plumber,	22 Fremont Street.
84	C. G. Howser,	Permanent driver,	Central Station.

COMBINATION COMPANY, NO. 1.

OFFICERS.

M. S. WAKEFIELD, *Captain.*C. G. PINKHAM, *Lieutenant and Clerk.**Badge*

<i>Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
91	M. S. Wakefield,	Captain,	Central Station.
92	C. G. Pinkham,	Lieutenant,	Central Station.
93	M. J. Martin,	1st Chauffeur,	Central Station.
94	L. D. Dunham,	2d Chauffeur,	Central Station.
95	John Driscoll,	3d Chauffeur,	Central Station.

HOUSE MAN,
A. L. Downing.

PIONEER STEAM FIRE ENGINE COMPANY, NO. 3.

Penacook.

OFFICERS.

HENRY ROLFE, *Captain.*FRANK P. ROBERTSON, *Lieut., Clerk and Treas.*WALTER H. ROLFE, *Engineer.*JOHN B. DODGE, *Steward.*

MEMBERS.

Badge

<i>Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
100	Henry Rolfe,	Highway agent,	26 Penacook Street.
101	Frank P. Robertson,	Machinist,	6 Church Street.
102	Walter H. Rolfe,	Foreman,	39 Centre Street.
109	Alfred Beddow,	Stationary engineer,	44 Elm Street.
111	Russell E. Rolfe,	Clerk,	39 Centre Street.
110	John B. Dodge,	Janitor,	59 Merrimack Street.
113	Peter A. Keenan,	Table-maker,	92 High Street.
118	George A. Griffin,	Painter,	15 Washington Street.
120	Harry F. Jones,	Teamster,	7 Washington Street.
123	William Corbett,	Axle-maker,	44 Centre Street.
103	Frank D. O'Brien,	Teamster,	7 Washington Street.
124	Delmar R. Jones,	Teamster,	123 Merrimack Street.
114	Henry E. Templeton,	Wood-worker,	41 Washington Street.
112	Ambrose Sweet,	Wine clerk,	4 Charles Street.
119	William H. Holbrook,	Laborer,	10 Church Street.
116	Loren H. Emerson,	Wood-worker,	110 Merrimack Street.
117	Guy B. Chase,	Teamster,	Union Street.
121	Albert Cassavaugh,	Table-maker,	9 Union Street.
105	Cornelius W. O'Brien,	Hotel clerk,	43 South Main Street.
108	Alfred J. York,	Spinner,	36 Centre Street.
115	Carl G. Holmes,	Miller,	42 Spring Street.

OLD FORT ENGINE COMPANY, NO. 2.

East Concord.

OFFICERS.

GEORGE O. ROBINSON, *Captain.*
C. E. ROBINSON, *Lieut. and Clerk.*

JOHN C. HUTCHINS, *Treasurer.*
MICHAEL LACROIX, *Steward.*

MEMBERS.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
120	George O. Robinson,	Water-dealer,	Penacook Street.
121	C. E. Robinson,	Clerk,	Penacook Street.
122	John C. Hutchins,	Engineer,	Penacook Street.
125	Samuel G. Potter,	Milk-dealer,	Appleton Street.
126	William E. Virgin,	Carpenter,	Penacook Street.
127	Rufus C. Boynton,	Belt-maker,	Penacook Street.
128	Shad Cate,	Farmer,	Pembroke Street.
129	Ross W. Cate,	Horseshoer,	Penacook Street.
130	Herbert Knowles,	Sawyer,	Penacook Street.
131	Parker French,	Janitor,	Penacook Street.
132	Westley Field,	Farmer,	Penacook Street.
133	John W. Sanborn,	Farmer,	Penacook Street.
134	Walter C. Sanborn,	Wood-worker,	Portsmouth Street.
136	Arthur P. Swain,	Moulder,	Penacook Street.
123	Michael Lacroix,	Blacksmith,	Penacook Street.
137	Clarence Tibbetts,	Clerk,	Penacook Street.
138	Reuben L. Cate,	Carpenter,	Cemetery Street.
135	John T. Cate,	Carpenter,	Shawmut Street.
140	C. A. Chamberlin,	Farmer,	Shawmut Street.
139	William F. Paige,	Painter,	Shawmut Street.
141	Daniel W. Sanborn,	Machinist,	Shawmut Street.
143	H. A. Stuart,	Salesman,	Penacook Street.
144	Hiram Gardner,	Blacksmith,	Pembroke Street.
145	John Canney,	Carpenter,	Pembroke Street.
146	Thomas Morrison,	Machinist,	Kearsarge Street.
147	Fred Gardner,	Wood-worker,	Kearsarge Street.
149	Fred J. Carter,	Stone-cutter,	Penacook Street.
148	Claude H. Swain,	Clerk,	Clinton Street.
124	Herbert E. Merrill,	Blacksmith,	Penacook Street.
142	William E. Batchelder,	Machinist,	Penacook Street.

CATARACT ENGINE COMPANY, NO. 3.

West Concord.

OFFICERS.

ALFRED J. FRASER, *Captain.*ANDREW J. ABBOTT, *Treasurer.*ABRAM D. CUSHING, *Lieut. and Clerk.*FRANK C. BLODGETT, *Steward.*

MEMBERS.

<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
Alfred J. Fraser,	Stone-cutter,	10 River Street.
A. D. Cushing,	Blacksmith,	420 North State Street.
Hiram E. Quimby,	Stone-cutter,	490 North State Street.
Andrew J. Abbott,	Farmer,	382 North State Street.
Jeremiah Cotter,	Blacksmith,	5 Engel Street.
Patrick Ryan,	Stone-cutter,	50 Hutchins Street.
Abial C. Abbott,	Quarryman,	513 North State Street.
Frank C. Blodgett,	Stone-cutter,	436 North State Street.
Edward Lovering,	Stone-cutter,	1 Clark Street.
Joseph Daley,	Blacksmith,	455 North State Street.
Luther E. Rowe,	Quarryman,	15 Lake Street.
Robert Henry,	Silversmith,	513 North State Street.
Benjamin Kemp,	Laborer,	3 River Street.
Frank Peterson,	Stone-cutter,	346 North State Street.
Arthur Spead,	Stationary engineer,	439 North State Street.
Matthew H. Peabody,	Stationary engineer,	14 View Street.
Carl A. Anderson,	Stationary engineer,	9 Lake Street.
Carl A. Ekstrom,	Stone-cutter,	16 Gladstone Avenue.
Oscar Johnson,	Stone-cutter,	516 North State Street.
Axel Swanson,	Stone-cutter,	434 North State Street.

VETERANS' AUXILIARY COMPANY.

OFFICERS.

JOHN E. GOVE, *Captain.*S. S. UPHAM, *First Lieutenant.*FRANK F. MORSE, *Second Lieutenant.*

MEMBERS.

Dennis Holloran,	Arthur H. Britton,	Fred S. Johnson,
A. P. Davis,	O. H. Thompson,	F. O. Libbey,
H. H. Carpenter,	W. K. Wingate,	M. F. Thompson,
E. D. Ashley,	A. L. Walker,	W. W. Kennedy,
Charles F. Thompson,	James Jepson,	J. J. McNulty,
Elba F. Horne,	George H. Davis,	E. J. Brown.

WATER DEPARTMENT.

1915.

BOARD OF WATER COMMISSIONERS.

CHARLES J. FRENCH, Mayor, *ex-officio*.

EDSON J. HILL,	to March 31, 1919.
CHARLES R. WALKER,	to March 31, 1919.
HARRY H. DUDLEY,	to March 31, 1918.
NATHANIEL E. MARTIN,	to March 31, 1918.
SOLON A. CARTER,	to March 31, 1917.
BURNS P. HODGMAN,	to March 31, 1917.
HENRY C. HOLBROOK,	to March 31, 1916.
FRANK P. QUIMBY,	to March 31, 1916.

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,* <i>ex officio</i> ,	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,* <i>ex officio</i> ,	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,* <i>ex officio</i> ,	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,* <i>ex officio</i> ,	1878-1880.
James L. Mason,*	1878-1893.
James R. Hill,*	1878. Died in 1884.
Geo. A. Cummings,* <i>ex officio</i> ,	1880-1883.
Edgar H. Woodman,* <i>ex officio</i> ,	1883-1887.
Joseph H. Abbot,*	1884-1893.
George A. Young,*	1885-1894.
John E. Robertson, <i>ex officio</i> ,	1887-1889.
Stillman Humphrey,* <i>ex officio</i> ,	1889-1891.
Henry W. Clapp,* <i>ex officio</i> ,	1891-1893.
Willis D. Thompson,	1891-1895.

* Deceased.

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. Died in 1911.
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,	1901-1915.
Harry H. Dudley,	1902. Now in office.
Nathaniel E. Martin,	1902. Now in office.
Charles R. Corning, <i>ex officio</i> ,	1903-1909.
Henry C. Holbrook,	1903. Now in office.
Harley B. Roby,*	1905. Resigned Jan. 24, 1911.
Charles J. French, <i>ex officio</i> ,	1909. Now in office.
Burns P. Hodgman,	1911. Now in office.
Frank P. Quimby,	1911. Now in office.
Charles R. Walker,	1915. 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.

* Deceased.

WATER DEPARTMENT.

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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.

SUPERINTENDENTS.

V. C. Hastings,*	1873. Died March 14, 1907.
P. R. Sanders,	1907. 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,	5,000.00
flowage rights around Penacook Lake,	4,375.61
for land at Penacook Lake,	62,082.41
C. H. Amsden, water and flowage rights,	5,000.00
Cost of property and rights of Torrent Aqueduct Association, dam, gate-house and appurtenances,	34,146.05
conduit and gate-houses,	29,818.94
mains (low service main and pump main from the dam to Penacook Street, force main from the pump to the reservoir, fire main through North and South Main Streets, and high service main from Penacook Street to Stark Street, Penacook),	182,241.70
distribution pipe,	398,791.56
service pipe,	64,992.00
reservoir, including land,	45,044.09

Cost of pumping station, shop, stable and storehouse, including land,	\$29,265.35
pumping machinery,	17,000.42
engineering and superintendence,	14,913.12
incidentals,	6,531.19
	<hr/>
Cost of works, January 1, 1916,	\$1,067,702.44
Less amount received for lumber, land and buildings sold,	7,736.61
	<hr/>
	\$1,059,965.83

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, 1916,	4,	\$9,000.00
Jan. 1, 1917,	4,	5,000.00
Jan. 1, 1918,	4,	10,000.00
Jan. 1, 1919,	4,	10,000.00
Nov. 1, 1920,	3,	4,000.00
Nov. 1, 1921,	3,	3,000.00
April 1, 1921,	3½,	5,000.00
Jan. 1, 1922,	4,	335,000.00
March 1, 1922,	3½,	20,000.00
April 1, 1922,	3½,	26,000.00
Jan. 1, 1923,	3½,	15,000.00
Jan. 1, 1924,	3½,	15,000.00
		<hr/>
		\$457,000.00

REPORT OF BOARD OF WATER COMMISSIONERS.

To His Honor the Mayor and the Board of Aldermen:

The Board of Water Commissioners of the city of Concord transmits herewith the report of Superintendent Percy R. Sanders, exhibiting the operations of the department for the year 1915, including all receipts and expenditures and the customary statistics pertaining to the construction, administration and present condition of the system, which is made a part of the report of this board.

The policy of acquiring by purchase shore-line properties, where the same could be accomplished on satisfactory terms, has been consistently adhered to and five parcels have been acquired during the year at a cost of \$8,000.

The control of Penacook Park has been placed in the hands of this board by the city government; the highway around Forge Pond has been discontinued and the board has caused to be removed all the unsightly and unsanitary boathouses, landings and wharves from the shores of Forge Pond.

At the request of this board, the State Board of Health adopted and promulgated a code of regulations applicable to all municipal systems supplying water for domestic purposes.

Upon the adoption of the state board's code, your board has revised its regulations and both codes are published as an appendix to this report for the information of the public.

In the opinion of this board, these measures mark a long step in advance towards better conditions and the protection of the purity of our supply, and in their enforcement

we ask and confidently expect to receive the approval and hearty coöperation of a very large majority of our fellow citizens.

Respectfully submitted,

EDSON J. HILL,
CHARLES R. WALKER,
HARRY H. DUDLEY,
NATHANIEL E. MARTIN,
SOLON A. CARTER,
BURNS P. HODGMAN,
HENRY C. HOLBROOK,
FRANK P. QUIMBY,
CHARLES J. FRENCH, *ex-officio*,

Board of Water Commissioners.

REPORT OF THE SUPERINTENDENT.

To the Board of Water Commissioners:

I herewith present to you the forty-fourth annual report of the operations of this department, showing the receipts, expenditures and abatements, together with a statement of the extensions and improvements made during the year ending December 31, 1915.

RECEIPTS.

For water, from consumers by fixed rates,	\$12,629.32	
For water, from consumers by meter rates,	60,536.11	
From delinquents,	81.15	
For water for building purposes,	341.06	
pipe and stock sold and labor,	741.59	
old brass and iron sold,	102.82	
buildings,	140.00	
adding machine,	25.00	
freight and insurance refunded,	6.17	
From proceeds of wood-lot,	4,391.61	
	\$78,994.83	
Deduct abatements,		54.77
		\$78,940.06
Net receipts for 1915,		\$78,940.06

There has also been furnished the city free of charge the following use of water :

Fire department,	\$111.50
Police department,	43.00
Public Library,	11.00

WATER DEPARTMENT.

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Ward 7, ward house,	\$7.00
Ward 9, ward house,	7.00
St. Paul's School sewer precinct, flush tanks,	45.00
City playgrounds,	12.00
Parks, city,	38.00
Park, Washington Square, Pen- acook,	10.00
Cemeteries,	108.00
Drinking fountains,	20.00
Watering troughs,	260.00
Street department, stable,	18.00
Stone crusher,	6.00
Standpipes, city and Penacook,	750.00
448 fire hydrants at \$25,	11,200.00
	<hr/> \$12,646.50

EXPENDITURES.

MAINTENANCE ACCOUNT.

General care and maintenance:

Salaries and labor,	\$5,658.18
Maintenance of team,	212.45
Maintenance of autos,	489.45
Teaming and livery,	264.00
Miscellaneous supplies and repairs,	251.70
Tools,	104.91
Repairs of buildings,	322.06
Bond and liability insur- ance,	378.50
Telephones and lighting,	79.00
Incidentals,	86.87
	<hr/> \$7,847.12

Office expenses :

Salaries,	\$921.52	
Postage and printing,	287.09	
Miscellaneous supplies,	94.53	
Adding machine and letter file,	316.49	
Telephone,	34.19	
	<u> </u>	\$1,653.82

Care and repair of hydrants :

Stock,	\$94.39	
Labor,	274.51	
	<u> </u>	368.90

Care and repair of meters :

Stock,	\$984.50	
Labor,	1,091.07	
	<u> </u>	2,075.57

Relaying service pipes :

Stock,	\$99.48	
Labor,	200.55	
	<u> </u>	300.03

Work at Lake, 939.05

Care of wood-lots :

Planting pines,	\$737.84	
General care,	368.14	
	<u> </u>	1,105.98

Protection of water supply, 370.92

Penacook Park :

Repairing buildings,	\$219.46	
General care,	534.74	
	<u> </u>	754.20

WATER DEPARTMENT.

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Automobile,	\$879.80	
Legal expenses,	150.00	
Taxes, town of Webster,	48.00	
Incidentals,	45.00	
Pumping station:		
Salaries and labor,	\$2,099.00	
Fuel,	1,041.58	
Supplies and repairs,	504.06	
Telephone and lighting,	52.45	
Insurance,	82.00	
	<u> </u>	3,779.09
Total maintenance account,		<u> </u> \$20,317.48

CONSTRUCTION ACCOUNT.

Distribution pipes:		
Stock,	\$864.23	
Labor,	613.49	
	<u> </u>	\$1,477.72
Service pipes:		
Stock,	\$400.52	
Labor,	114.44	
	<u> </u>	514.96
Hydrants:		
Stock,	\$470.75	
Labor,	32.83	
	<u> </u>	503.58
Meters:		
Stock,	\$759.52	
Labor,	77.88	
	<u> </u>	837.40

Venturi meter,	\$1,389.88	
	<hr/>	
Total construction account,		\$4,723.54

LAND AT PENACOOK LAKE.

H. M. Richardson,	\$5,000.00	
Eva B. Lauder,	1,600.00	
John G. McQuilkin,	800.00	
Grace M. Wilkins,	600.00	
Recording deeds,	2.74	
	<hr/>	8,002.74
		<hr/>
Total expenditures for 1915,		\$33,043.76

EXTENSIONS AND IMPROVEMENTS.

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

In Sewall's Falls Road,

north from A. H. Knight's to Second Street, 1,310 feet 6-inch pipe in place of 2-inch discontinued.

In Second Street, West Concord,

east from Sewall's Falls Road, 40 feet 6-inch pipe in place of 2-inch discontinued.

In Walker Street Extension,

west from Rumford Street, 609 feet 6-inch pipe.

In Walnut and Bye Streets, Penacook,

west from Merrimack to East Canal Street, 884 feet 6-inch pipe in place of 1- and 2-inch pipe discontinued.

In Crescent Street, Penacook,

between Walnut and East Canal streets, 58 feet 6-inch pipe.

On hydrant branches,

69 feet 6-inch pipe; 9 feet 6-inch pipe discontinued.

Total amount laid during the year, 2,970 feet.

Total amount discontinued during the year, 1,937 feet.

Total length of main and distribution pipes now in use, 373,324 feet, equal to 70.70 miles.

There have been set during the year 11 gates.

Total number of gates now in use, 1,039.

Six new hydrants have been set as follows:

On Walker Street Extension, 500 feet west from Rumford.

On Centre Street, at east line of Dewey School lot.
 On South State Street, at Fayette Street.
 On Thorndike Street, between South State and South
 Main streets.
 On Sewall's Falls Road, at north line of cemetery.
 On Walnut Street, Penacook, at Bye Street.

Total number of hydrants now in use, 448.

SERVICE PIPES.

There have been laid during the year and connected with
 the main pipes, 28 service pipes, consisting of

21 $\frac{3}{4}$ -inch,	1,255 feet.
4 1-inch,	572 feet.
3 2-inch,	70 feet.
—	—
28	1,897 feet.

There have been discontinued, 7; total number of service
 pipes at the present time, 3,858; total length of service
 pipes, 91,236 feet, or 17.27 miles.

There have been relaid 45 services and 24 curbs have
 been placed on old services.

We have set 72 meters during the year; removed, 6;
 total number now in use, 2,459.

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

January,	178.50	July,	178.60
February,	178.60	August,	180.45
March,	179.75	September,	181.45
April,	179.85	October,	180.75
May,	180.10	November,	180.40
June,	179.60	December,	180.10

The lowest point reached during the year was on January 17, being 178.25; the highest was on September 1 and was 181.45; mean height for the year was 180.00, which was .45 foot higher than the mean height for the year 1914.

Our water supply has continued to prove ample for the needs of the city and has maintained its high standard of excellence. The shores of the lake have been thoroughly patrolled and all rubbish and other material removed.

The buildings at Penacook Park, the control and care of which have been turned over to this department, have been repaired, shingled and painted, and are now in good condition. The boat houses, landings and wharves on the shore adjacent to the park have all been removed and all boating on Forge Pond has been prohibited.

The action of the board in making and carrying out this order is a move which does much to protect our supply from pollution.

A Venturi meter has been placed in operation at the lake by means of which the entire flow of water to the city is measured and recorded on a weekly chart. These charts show that the draft of water will average 2,400,000 gallons per day.

The rate of flow from 7 a. m. to 5 p. m. is nearly 4,200,000 gallons per 24 hours, and from 5 p. m. to 7 a. m. about 1,400,000 gallons per 24 hours.

There have not been many calls for extensions during the year, as will be shown by the schedule of pipe laid.

Services have been relaid in all streets resurfaced or macadamized.

We have set out 40,000 pine seedlings, procured from the state nurseries at North Boscawen, on vacant land around the lake. This work was done in the spring as soon as possible after the frost was out of the ground. The percentage of loss from any cause has been very small. The seedlings set out in the past few years have shown marked growth, especially those near the upper gate-house.

The cement-lined pipes remaining in the system, namely, the Penacook main and distribution pipes and the 18-inch main from the lake to the city, have given no trouble on account of leaks, and apparently can be continued in use for some time.

Respectfully submitted,

PERCY R. SANDERS,

Superintendent.

**REPORT OF THE ENGINEER AT 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 condition.

The boilers are in good condition; boiler No. 2 was inspected the first of January, 1916, and found to be in good condition.

The brick work on boiler No. 1 will need some repairs.

Following is 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.

25 tons 483 pounds of Bader coal.
192 tons 402 pounds of New River coal.
111 gallons of valve oil.
7 gallons of engine oil.
28 pounds of waste.
10 pounds of grease.
59 cords of wood.
26 gallons of perolin boiler compound.

ENGINE RECORDS.

MONTHS.	No. days pumping engine No. 1.		No. 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.
January.....	18	14	29	271:	H. M.	8:44	23,801,651	767,795	42,046	1,483	11,815	517	
February....	14	17	28	253:	H. M.	9:2	21,567,924	770,283	31,125	1,495	32,282	514	
March.....	17	15	31	266:	H. M.	8:34	22,332,180	720,392	25,734	1,487	61,176	484	
April.....	13	17	29	248:30	H. M.	8:16	21,871,141	729,038	42,408	1,413	380	511	
May.....	15	16	31	252:30	H. M.	8:8	22,039,750	710,959	42,586	1,373	.....	517
June.....	16	18	30	297:	H. M.	9:54	26,439,523	881,317	49,930	1,664	.....	529
July.....	23	6	31	240:30	H. M.	7:45	20,238,611	652,858	38,667	1,247	.....	523
August.....	16	16	31	249:30	H. M.	8:2	21,098,577	680,599	40,106	1,293	.....	526
September...	14	16	30	265:30	H. M.	8:51	22,826,591	760,886	43,481	1,449	280	523	
October.....	17	16	31	276:30	H. M.	8:55	23,338,555	752,856	44,593	1,438	.....	523
November...	16	16	30	262:30	H. M.	8:45	21,816,241	727,208	42,735	1,424	.....	510
December....	12	20	31	263:30	H. M.	8:30	22,158,371	714,786	44,554	1,437	.....	496
Total.....	193	187	362	3,146:	.....	.....	269,529,115	.....	488,015	.....	105,933	516
Daily average.....	.....	.....	.....	.....	.....	8:37	.....	738,435	1,334	.....	.....	.....

Coal consumed for the year, 217.91 tons.

(Pounds of wood consumed) \div 3 = equivalent amount of coal—35,311 lbs.

Total equivalent coal consumed for the year includes that used for pumping, starting fires, banking fires and heating buildings, 233.67 tons.

Amount of equivalent coal consumed per thousand gallons pumped, 1.93.

HENRY A. ROWELL,

Engineer.

**CITY TREASURER'S CONDENSED STATEMENT OF
WATER-WORKS ACCOUNT.**

Isaac Hill, Treasurer, in account with Concord Water-
Works.

RECEIPTS.

Balance on hand, January 1, 1915,	\$18,240.28	
P. R. Sanders, superintendent,	78,940.06	
	—————	\$97,180.34

EXPENDITURES.

Interest on bonds,	\$18,814.90	
Bonds paid,	20,000.00	
Orders paid,	33,033.74	
Cash on hand,	25,331.70	
	—————	\$97,180.34

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

* No hydrant rental this year.

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
“ “ “ 1909,	*67,307.84
“ “ “ 1910,	68,673.71
“ “ “ 1911,	71,881.34
“ “ “ 1912,	76,145.13
“ “ “ 1913,	76,154.45
“ “ “ 1914,	74,422.15
“ “ “ 1915,	78,940.06
<hr/>	
Total receipts for 43 years,	\$2,074,882.08

B.

MEAN HEIGHT OF WATER EACH YEAR.

1873,	175.86	1895,	171.15
1874,	179.50	1896,	178.96
1875,	180.00	1897,	183.33
1876,	180.28	1898,	184.31
1877,	176.46	1899,	183.49
1878,	179.50	1900,	183.09
1879,	179.74	1901,	183.86
1880,	175.30	1902,	184.98
1881,	174.70	1903,	184.75
1882,	179.15	1904,	184.40
1883,	176.40	1905,	183.37
1884,	178.18	1906,	183.94
1885,	176.80	1907,	183.59
1886,	178.10	1908,	183.41
1887,	179.04	1909,	181.40
1888,	181.96	1910,	180.22
1889,	180.91	1911,	177.60
1890,	181.90	1912,	178.86
1891,	180.00	1913,	179.20
1892,	174.32	1914,	179.55
1893,	173.38	1915,	180.00
1894,	172.81		

* No hydrant rental after 1908.

WATER DEPARTMENT.

Broadway.....	2278	2052	6	154	1	2	1	1	1
Cambridge.....		508	763				4		
Capitol.....			1077			1			
Centre.....		3529	2690			9	4		
Chandler.....			306						
Chapel.....			585	56					
Charles.....			516						
Chestnut.....			265						
Church.....		21	1600	547					
Clarke.....			100						
Clinton.....		1942	180	1663		1			
Columbus Avenue.....	2100								
Concord.....			1593	286					
Court.....			670						
Curice Avenue.....			422						
Dakin.....			19	836					
Dartmouth.....			352						
Depot.....			387	242					
Donovan.....			456						
Dowling.....			1977	92					
Dunklee.....			1195						
Durbin.....			265						
Eastman.....			400	400					
Electric.....			550						
Elm.....			270	607					
Engel.....			388						
Essex, North.....			587						
Fairbanks.....			262						
Fayette.....			74						
Ferry.....			1187	1066					
Fisher.....		1000							
Fiske.....			343						
Fiske Road.....	1045								
Ford Place.....			750						
Forest.....				225					
Foster.....			628						
Franklin.....		2166	1546						
Freight.....		438	1317			4			
Fremont.....			285						
Fruit, North.....			1078	590					
Fruit, South.....			2858	16					
Fuller.....				88					

D.

FIRE-HYDRANTS.

H, HIGH SERVICE ; L, LOW SERVICE.

STREETS.	LOCATIONS.	Service.	Number.	
North Main...	Southwest corner of Penacook.....	L	27	
	East side, near J. B. Walker's.....	L		
	Junction of Fiske.....	L		
	East side, near Larkin's store.....	H		
	Northwest corner of Franklin.....	H		
	East side, opposite Pearl.....	H		
	Northwest corner of Washington.....	L		
	West side, at West Garden.....	H		
	East side, opposite Chapel.....	L		
	Northwest corner of Court.....	L		
	Northwest corner of Pitman.....	H		
	Northwest corner of Montgomery.....	H		
	East side, opposite Montgomery.....	L		
	Northwest corner of Centre.....	H		
	Southeast corner of Bridge.....	L		
	Southwest corner of Park.....	L		
	East side, opposite Park.....	H		
	Northwest corner of Capitol.....	H		
	Northwest corner of School.....	L		
	West side, at Centennial Block.....	H		
	East side, opposite Centennial Block.....	L		
	East side, in rear Eagle Hotel.....	L		
	East side, in rear Woodward Block.....	L		
	Northwest corner of Warren.....	L		
	West side, at Central Block.....	H		
	Northwest corner of Depot.....	L		
	Northwest corner of Pleasant.....	L		
	South Main....	Southeast corner of Pleasant.....		H
		Northeast corner of Freight.....		L
		East side, opposite Fayette.....		H
		East side, opposite Thompson.....		L
		Southeast corner of Chandler.....		H
	Northwest corner of Wentworth Avenue....	H		
	Northwest corner of Thorndike.....	L		
	East side, opposite St. John's Church.....	H		
	Northwest corner of Perley.....	L		
	West side, near Abbot & Downing Co.'s....	H		
	East side, opposite Abbot & Downing Co.'s..	L		
	East side, near West.....	H		
	Northeast corner of Gas.....	L		
	West side, opposite Holt Bros. Mfg. Co.....	H		