

TENTH ANNUAL REPORT

OF THE

BOARD OF WATER COMMISSIONERS TO THE CITY
COUNCIL, FOR THE ELEVEN MONTHS ENDING
DECEMBER 31, 1881.

BOARD OF WATER COMMISSIONERS.

GEORGE A. CUMMINGS, *Mayor, ex-officio.*

SAMUEL S. KIMBALL.....to March 31, 1882.
LUTHER P. DURGIN.....to March 31, 1882.
JOHN KIMBALL.....to March 31, 1883.
WILLIAM M. CHASE.....to March 31, 1883.
JAMES R. HILL.....to March 31, 1884.
JAMES L. MASON,.....to March 31, 1884.

OFFICERS.

JOHN KIMBALL, *President.*

WILLIAM M. CHASE, *Clerk.*

V. C. HASTINGS, *Superintendent.*

REPORT.

To the City Council:

The Board of Water Commissioners submit their tenth annual report for the eleven months ending December 31, 1881.

The receipts and expenditures of the Board during that time have been as follows :

RECEIPTS.

For water rates, including amount received from the city for hydrants,	\$25,420.34	
Extra from delinquents,	47.18	
Use of meters,	27.55	
Rent of Cooledge house,	25.00	
Rent of Cooledge lot,	10.00	
Rent of stable at dam,	40.00	
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	\$25,570.07	
Deduct abatements,	36.06	
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		\$25,534.01

EXPENDITURES.

Paid V. C. Hastings, for 11 months,	\$1,100.00
Natt. White, office rent,	300.00
G. H. H. Silsby & Son, printing, &c.,	70.46
Repub. Press Associat'n, "	13.00
C. C. Pearsons, "	7.50
Concord Gas-Light Co., gas,	14.31
Brown & Bean, wood and coal,	14.00
Ranlet & Prescott, coal,	12.38
Concord Telephone Exchange,	99.05
Edwin Byrnes, labor,	495.00
Pay-roll,	299.48
O. F. Richardson, labor,	21.25
Geo. Goodhue, pipe, &c.,	286.48
Natt. White, pipe,	110.42

Paid Humphrey, Dodge & Smith, hardware,	\$20.77
Gust Walker, hardware and pipe,	20.70
Ford & Kimball, castings,	3.84
C. H. Martin & Co., lead and oil,	6.20
W. K. Holt & Co., chestnut plank,	10.87
E. B. Hutchinson, lumber and labor,	46.23
A. R. Ayers, paper, &c.,	16.88
Frank Coffin, cement,	13.30
Woodworth, Dodge & Co., cement,	20.20
Stephen Sewall, trucking,	17.05
B. G. Carter, blacksmith work,	17.06
Partridge & Crossman, “	2.79
John A. White, machine work,	1.30
Batchelder & Co., oil, &c.,	2.68
M. B. Edson, recording and alarm gauge,	95.00
B. T. Putney, plank,	2.50
H. H. Farnum, team work,	1.00
E. A. Moulton, painting Cooledge house,	31.87
E. B. Hutchinson, carpenter work,	903.50
Incidental expenses,	49.95
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	\$4,127.02
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Balance,	\$21,406.99
Deduct the amount required to pay one year's interest on the water debt,	21,000.00
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And it leaves a net balance, over all expenses and interest, of	\$406.99

This report is made for eleven months to conform to the fiscal year of the city; but the above receipts include all the income usually accruing in a year excepting some rent upon the Cooledge house and the kit factory, not payable till January.

The expenditures aforesaid may be classified as follows :

Paid for care and maintenance of works, including an expense of \$197.17 for relaying pipe in Jackson street,	\$2,298.84
for recording and alarm gauge, and telegraph wire for same,	125.00

for distribution and service-pipes,	\$691.18
repairs on Cooledge house,	783.50
building new shed in connection with buildings near dam,	228.50
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	\$4,127.02

It became necessary to lower the pipe in Jackson street, by reason of the change in the grade of that street made by the mayor and aldermen.

One of Edson's recording alarm gauges has been purchased during the year, and placed in the office of the Board, and connected with the house of the superintendent by a telegraph line. By this, a correct record of the pressure of the water at all hours of the day and night is kept and recorded. If a break in the pipes occurs at any time in the day or night, by which water escapes sufficiently to reduce the pressure below the point at which the instrument is adjusted for the time being, a bell is rung in the office, and also in the sleeping-room of the superintendent; and if an unusual draft of water is made at any time, and the pressure is reduced by it, like notice is given. The record made by this instrument is preserved, and will be of great service to those having charge of the works. It shows approximately the relative quantities of water used at different times of the day and at different seasons of the year. The instrument enables the superintendent to discover defects in the works, and waste or unauthorized use of water.

The Cooledge house had become unfit for occupancy, and an unsightly object in the village of West Concord, where it occupies a prominent site. The alternative was presented to the Board of making substantial repairs upon it, or having it removed from the lot. They adopted the former course, and have expended \$783.50 in making such repairs. The house is now rented, and will repay the expenditures that have been made upon it.

An additional shed was needed in connection with the buildings at the dam, and has been erected. It will be noted

that these expenses are all extraordinary, and will not soon recur; also that a large sum (\$691.18) has been expended from the income for permanent improvements of the works, in providing distribution and service pipes. When due allowance is made for all these matters, a very satisfactory balance of income is left, after paying all ordinary expenses and the interest on the water bonds; and we have this favorable result with the reduced water rates established last year. The works are self-sustaining, with moderate charges for water.

The water in the pond has been unusually low during the larger part of the year. The following table shows its height on the first day of each month:

January.....	172.60	July.....	176.60
February.....	172.30	August.....	176.50
March.....	172.80	September.....	175.90
April.....	175.10	October.....	175.60
May.....	176.30	November.....	175.20
June.....	176.90	December.....	175.85

The lowest point reached was February 10, being 172, and the highest, December 30, 177.40; mean height 174.70, which is lower than during any year since the works were built. This low state of the water has seriously interfered with the efficiency of the works: there has not been sufficient head to overcome the friction in the pipes and force the water to the higher points of the precinct, and supply takers there continuously. If no water were taken from the pond except what is used by the city, the head could easily be maintained at a higher level, and the efficiency of the works be much increased; but even then, the higher points could not be uniformly supplied through the present main leading from the pond. When the water is the highest, there are times when consumers on the higher lands fail to get a supply for family uses, and there is no water to protect their property against fire. As the consumption of water increases, this evil will increase, and the district that

will suffer from an intermittent supply will be enlarged, unless some remedy is provided.

At present, there is but one main leading from the pond. Should any accident happen to it, no water could be supplied to the city until it was repaired. On the first day of December a defect in it caused a serious leak, and the superintendent was obliged to shut off the water between seven o'clock in the evening and six o'clock the next morning, and to employ a large number of hands to make the necessary repairs within that time. In this instance, the defect in the main was not great, and it was favorably located to be easily repaired; but water consumers were put to great inconvenience by it, and there was a feeling of unrest throughout the city during its continuance from fear of fire. The main is believed to be strong and in good condition, and as well adapted to its uses, with the exception of its size, as any that could be substituted for it; but like all other works of man, it may have defects, and is liable to injuries, and may fail to do its work when most needed. Here is a defect in our system that peremptorily requires an immediate remedy.

The Board, after a thorough investigation and careful consideration of the subject, have unanimously voted to lay a second and larger main from the dam to a point opposite the entrance to Blossom Hill Cemetery, and to lay a large pipe (probably 12 inches in diameter) from that point through Walnut street to its intersection with Franklin street. When the dam was built, a second 16-inch pipe was laid through it, and this main will connect with that. It is the design to connect it with the present main, and with the other pipes of the works, by suitable connections and gates, so that the two mains may be used in common, or one at a time, or one to supply one portion of the city while the other supplies the other portion. It is believed that the two mains will bring water to the city with sufficient rapidity to supply it to all consumers continuously,

those on the higher lands as well as those on the lower. The pressure will not be overcome to so great an extent by friction. Should the two mains, acting together, fail to deliver water uniformly to consumers on the hill, a separate district can be made including that portion of the precinct, to be supplied by one of the mains, while the other supplies the balance of the precinct. If an accident happen to either main, the other will be able to do the work while that is being repaired. The second main will be laid at some distance from the first, so that injury to or work upon one will not interfere with the other.

The Board are of opinion that this main can be laid, with all necessary connections, gates, and appurtenances, for a sum not exceeding fifty thousand dollars. At the last session of the legislature they procured an act to be passed, fully authorizing the city, among other things, to borrow money for a purpose like this. See Pamphlet Laws of 1881, ch. 175. The money can now be borrowed at a moderate rate of interest, and as has been shown above, the income from the works will probably be sufficient to pay the additional interest charge incurred without raising the present rates, or materially increasing the taxes. They respectfully ask you to take such measures as will place at their disposal sufficient funds to do this work. Should you do this, immediate steps will be taken to carry into effect the plans already made, and it is hoped that the main will be laid and in use before another winter.

The usual tables are hereto annexed.

SAMUEL S. KIMBALL,
LUTHER P. DURGIN,
JOHN KIMBALL,
WILLIAM M. CHASE,
JAMES R. HILL,
JAMES L. MASON,
GEO. A. CUMMINGS, *ex officio*,
Commissioners.

TABLE

Showing Summary of Main, Distribution, and Service Pipes now laid and in use.

30-inch main	1,950 ft.
16-inch "	151 "
14-inch "	13,556 "
14-inch distribution,	3,704 "
12-inch "	1,622 "
10-inch "	3,034 "
8-inch "	8,667 "
6-inch "	37,911 "
4-inch "	45,345 "
1-inch "	14,989 "
$\frac{3}{4}$ -inch "	10,796 "

Total, 139,025 ft.
—equal to 26.33 miles.

1,731 service pipes, or 38,426 feet; 95 public hydrants; 12 private hydrants; 137 stop-gates.

Water is now supplied for the following uses:

2063 families,	103 stores,
175 bath-tubs,	3 railroads,
515 water-closets,	1 gas-works,
376 wash-basins,	18 stationary engines,
50 urinals,	2 book-binderies,
600 yard hydrants,	5 printing establishments,
95 fire hydrants,	1 organ manufactory,
12 private fire hydrants,	4 carriage manufactories,
56 heating apparatus,	1 soap manufactory,
4 hotels,	7 public watering-troughs,
3 greenhouses,	5 photographers,
10 fountains,	2 foundries,
8 churches,	1 tannery,
6 school-houses,	1 bakery,
1 state house,	4 eating-houses,
1 state prison,	23 mechanics' shops,
7 livery stables,	9 barber shops,
424 horses,	8 saloons,
126 cattle,	1 jail,
1 Odd Fellows' hall,	4 cemeteries,
1 Masonic hall,	3 street sprinklers,
5 city buildings,	1 drinking fountain,
75 offices,	1 brick-yard,
4 banks,	13 water motors.
1 post-office,	

TREASURER'S REPORT.

WM. F. THAYER, Treasurer, in account with

CONCORD WATER-WORKS.

RECEIPTS.

Balance cash on hand Feb. 1, 1881,	\$4,370.29	
Income of Water-Works,	25,534.01	
	\$29,904.30	

EXPENDITURES.

Paid interest on bonds,	\$21,030.00	
Maintenance and extension,	4,127.02	
Balance cash on hand,	4,747.28	
	\$29,904.30	

Jan. 2, 1882. Balance cash on hand, \$4,747.28

Respectfully submitted.

WM. F. THAYER, *Treasurer.*

We hereby certify that we have examined the books of the City Treasurer, and those of the City Clerk, and find them in the best of order, correctly cast, and properly vouched ; and the cash balance in the hands of the treasurer is four thousand seven hundred and forty-seven dollars and twenty-eight cents (\$4,747.28).

GEO. A. CUMMINGS,
EDWARD DOW,
GEO. H. EMERY,
B. F. CALDWELL,

Committee on Finance.

REPORT

OF THE

COMMISSIONER OF HIGHWAYS.

The undersigned herewith presents a statement of the receipts and expenditures from Feb. 1 to Dec. 31, 1881. Owing to the long and unbroken winter, and the snow-storms which accompanied it, the severest we have had for twenty years, also the heavy fall rains, a larger outlay upon our roads and streets has been necessitated than for several years past. We have added materially to the property of the city by the purchase of a stone-crusher, engine, and building for the same, and a street-sweeper, at an expense of three thousand dollars. The undertaking of this new enterprise, for the purpose of macadamizing our streets, has added considerable extra expense; but we believe the streets that have been macadamized have proved satisfactory to our people, and the coming year we shall be able to do much more and show a greater improvement to our streets than we have the past.

RECEIPTS.

Balance in hand, as per last report, 1881.		\$42.55
March 6.	Cash of city treasurer,	1,000.00
April 1.	“ “	1,000.00
May 2.	“ “	1,000.00
“ 31.	“ “	2,000.00

June	10.	Cash of city treasurer,	\$1,000.00
July	1.	“ “	2,000.00
“	14.	“ “	1,000.00
“	29.	“ “	2,000.00
Aug.	1.	“ “	1,000.00
“	22.	“ “	1,000.00
Sept.	1.	“ “	2,000.00
Oct.	1.	“ “	1,500.00
“	14.	“ “	500.00
Nov.	1.	“ “	1,000.00
“	8.	“ “	1,000.00
“	22.	“ “	500.00
Dec.	1.	“ “	1,000.00
“	8.	“ “	500.00
“	16.	“ “	500.00
“	28.	“ “	600.00
“	30.	“ “	539.23
“	31.	“ “	85.00
			182.63
			<hr/> \$22,899.41

EXPENDITURES.

A. J. Smith, watering-trough,	\$3.00
J. H. Rowell, pay-roll,	422.33
John Tenney, watering-trough,	3.00
B. F. Varney, plank,	41.50
E. O. Nudd, pay-roll,	2.50
H. H. Potter, “	19.48
A. S. Farnum, “	43.62
Expenses to Lowell,	5.00
Charles H. Merrill, pay-roll,	30.98
Geo. B. Little, “	61.35
Robert B. Hoyt, “	44.23
Harrison Partridge, “	16.56
A. P. Bennett, “	14.31
Geo. F. Hayward, “	22.63
J. H. Rowell, “	390.61
K. J. Goodhue, “	45.00
H. H. Potter, “	20.25
N. Bond, “	36.00
Josiah S. Locke, “	21.25
Moody S. Farnum, “	25.62

I. K. Gage, lighting bridge,	\$32.88
R. Hall, pay-roll,	39.87
M. C. Sanborn, pay-roll,	5.50
C. C. Bean, “	132.20
Mary Pecker, watering-trough,	3.00
Lowell Brown, pay-roll,	19.90
Joseph B. Knowlton, pay-roll,	10.00
Frank P. Batchelder, “	42.68
Humphrey, Dodge & Smith,	22.87
D. W. Hobbs, pay-roll,	10.30
A. S. Smith, “	5.62
Simeon Farnum, “	48.50
Simeon Farnum, plank,	26.60
John W. Bourlet, pay-roll,	23.69
John D. Fife, lighting bridge,	8.25
D. K. Abbott, pay-roll,	33.33
Expenses to Franklin,	2.30
J. H. Rowell, pay-roll,	498.91
K. J. Goodhue, “	45.00
Lilla A. Adams, lighting free bridge,	13.00
Expenses for oil, &c.,	1.35
Wm. S. Davis & Son,	2.00
Batchelder & Co., grain,	67.24
City Water-Works,	70.00
N. F. Glennon, horse,	165.00
Express,	.60
Expenses to Fisherville,	1.50
Account-book,	.15
Ink,	1.00
G. H. Dimond, pay-roll,	32.80
A. P. Bennett, “	5.62
J. S. Dutton,	6.00
Trucking,	1.25
W. B. Stearns, pay-roll,	26.49
H. Partridge, “	6.00
Samuel S. Jenness, watering-trough,	3.00
Trucking,	1.00
L. H. Carroll,	4.50
N. Bond, pay-roll,	176.35
Expenses to Boston,	8.85
George Goodhue,	35.22
Hugh Tallant,	15.00
Wm. K. Holt & Co.,	47.26

Wm. K. Holt & Co.,	\$299.11
J. H. Rowell, pay-roll,	1,098.21
K. J. Goodhue, “	45.00
N. Bond, “	164.05
J. T. Kendall, “	38.09
J. A. Dadmun,	7.36
M. H. Johnson,	37.00
H. H. Potter, pay-roll,	4.00
Humphrey, Dodge & Smith,	29.15
A. C. Holt & Bros.,	163.00
Mead, Mason & Co.,	26.04
Lowell Eastman,	6.00
Roswell Silver, pay-roll,	13.50
Northern R. R.,	2.00
Samuel W. Shattuck,	39.00
C. H. Norton, granite,	79.38
C. C. Bean, pay-roll,	273.45
S. W. Shattuck, pay-roll,	33.50
J. H. Rowell, “	20.00
J. T. Gilman, “	5.75
D. W. Hobbs, “	33.50
S. W. Shattuck, “	9.00
Express,	1.50
R. Hall, pay-roll,	76.00
Expenses to Fisherville,	.75
S. W. Shattuck,	7.50
Gilman H. Dimond,	61.80
J. D. Johnson & Son,	1.85
G. M. Munsey, plank,	17.44
John W. Bourlet, pay-roll,	35.04
A. S. Farnum, “	113.63
J. H. Rowell, “	1,251.69
H. H. Potter, “	106.97
George F. Hayward, “	63.74
N. Bond, “	217.38
Patrick Griffin,	35.00
A. M. Drake, hay,	10.00
Malcolm Beaton,	100.00
J. T. Kendall,	11.12
Gust Walker & Co.,	68.51
Brown & Bean,	13.25
H. Carr,	70.00
K. J. Goodhue,	45.00

Gay Bros.,	\$8.75
C. H. Norton,	39.86
A. R. Farnum,	95.62
Flanders, White & Houston,	57.65
Humphrey, Dodge & Smith,	198.48
John A. White,	2.85
Stevens & Duncklee,	33.73
Ordway & Ferrin,	7.11
Harvey Chase,	3.00
Trucking,	.50
Thomas Woodward,	6.00
Abbot-Downing Co., for sweeper,	325.00
J. T. Kendall,	5.06
C. C. Bean, pay-roll,	405.59
Thompson Rowell & Co., concrete,	400.00
R. K. Lougee, pay-roll,	7.25
B. F. Varney, "	153.72
W. P. Curtis,	4.50
George Goodhue,	52.87
C. C. Bean, pay-roll,	110.83
W. H. Hammond, pay-roll,	45.00
J. H. Rowell, "	1,250.88
H. Carr, "	70.00
N. Bond, "	242.39
John D. Fife, lighting bridge,	8.25
Lilla A. Adams, "	13.00
M. H. Johnson, granite work,	200.00
B. G. Carter, blacksmithing,	68.06
M. Beaton, paving,	200.00
Trucking,	.50
Ranlet & Prescott, coal,	33.00
Wm. S. Davis & Son,	3.32
Patrick Griffin,	33.00
H. H. Potter, pay-roll,	19.23
Trucking,	1.00
George W. Chesley, plank,	23.69
M. H. Johnson, for paving-stone,	700.00
C. H. Norton, granite,	83.48
Batchelder & Co., grain,	99.54
Henry G. Chandler, pay-roll,	9.00
Lowell Brown,	9.37
J. T. Kendall, pay-roll,	17.40
Expenses to Boston,	5.00

J. H. Rowell, pay-roll,	\$1,331.89
N. Bond, “	214.14
Farrell Foundry & Machine Co.,	24.63
W. H. Hammond, pay-roll,	33.00
H. Carr, sprinkling,	70.00
Brown & Bean,	11.46
H. Partridge, pay-roll,	58.00
J. A. Dadmun,	2.85
M. H. Johnson, for granite,	200.00
K. J. Goodhue,	12.00
Freight,	2.64
Patrick Griffin,	49.00
Foss & Merrill,	45.26
Freight,	5.20
Daniel Farnum,	1.00
George Prescott, painting,	2.00
A. P. Bennett, pay-roll,	35.74
J. H. Rowell, “	1,048.40
J. E. Farnum, “	174.07
H. Carr, “	.70
J. H. True, “	.45
Locke & Co., coal,	17.50
Robert B. Hoyt, pay-roll,	74.28
Moses Critchett & Sons, hay,	20.40
C. Frank Bean, trucking,	9.30
Arthur Bourlet,	6.57
C. Frank Bean, trucking,	1.00
H. H. Potter, pay-roll,	15.36
C. H. Martin & Co.,	4.42
John Whittaker & Co., lumber,	67.94
C. H. Merrill,	50.36
Humphrey, Dodge & Smith,	26.68
Merrill Dyer,	33.62
N. Bond, pay-roll,	87.49
J. H. Rowell, pay-roll,	877.91
John H. True, “	45.00
Batchelder & Co., grain,	76.89
Moses Critchett & Sons, hay,	18.40
Woodworth, Dodge & Co., cement,	37.95
City Water-Works,	76.00
Mary Adams, lighting free bridge,	13.80
Foss & Merrill,	11.75
C. C. Bean, pay-roll,	177.44

Frank P. Batchelder, pay-roll,	\$14.11
M. H. Johnson, granite,	742.39
John D. Fife, lighting bridge,	8.25
E. A. F. Hammond, lighting bridge,	41.20
Gilman Clough, plank,	54.00
Geo. F. Hayward,	23.75
Samuel Holt, brick,	59.50
W. K. Holt & Co., lumber,	38.59
Thompson Rowell & Co., concrete,	400.00
A. S. Farnum, pay-roll,	87.10
Putney & Nutting, granite,	31.50
Moody S. Farnum, pay-roll,	21.88
Dow & Wheeler,	25.00
James Francis, pay-roll,	9.50
Wm. S. Davis & Son, blacksmithing,	19.08
A. C. Holt, pay-roll,	3.00
Simeon Farnum, pay-roll,	53.25
H. H. Potter, “	13.23
J. H. Rowell, “	692.41
John H True, “	45.00
John P. Gilman, “	30.12
C. M. & A. W. Rolfe, timber,	11.40
George A. Carter,	10.00
Gilman H. Dimond,	32.00
Wm. B. Stearns, pay-roll,	40.00
“ plank,	2.50
Ranlet & Prescott, coal,	17.00
H. Carr,	4.00
Gust Walker, hardware,	67.54
Foss & Merrill,	19.85
Brown & Foote,	4.49
S. D. McKenzie,	10.50
Hiram M. Ray, sprinkler,	.50
Josiah S. Locke, pay-roll,	19.60
Henry W. Clapp,	177.38
J. J. Wyman, tallow,	6.10
Thompson Rowell & Co., concrete,	500.00
B. F. Varney, pay-roll,	70.00
C. H. Martin & Co.,	5.28
Ordway & Ferrin,	23.60
E. B. Hutchinson,	23.92
Thompson Rowell & Co., concrete,	600.00
S. S. Kimball,	120.70

Charles H. Dunklee, granite,	\$21.17	
A. R. Farnum, highway,	100.00	
Humphrey, Dodge & Smith,	16.92	
Ford & Kimball,	43.81	
James R. Hill & Co.,	56.25	
J. H. Rowell, pay-roll,	289.62	
John H. True, pay-roll,	45.00	
Charles Eastman,	2.50	
J. H. Rowell,	13.87	
Thompson Rowell & Co., concrete,	166.26	
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	\$22,880.50	
Dec. 31. Cash on hand,	18.91	
		<hr/>
		\$22,899.41

Cash of individuals, on city account, as follows :

July 15.	Flanders, White & Houston,	\$2.00
Aug. 1.	L. D. Brown, labor,	.75
Sept. 5.	J. H. Rowell, "	31.62
	W. K. Holt, stone,	1.00
Oct. 28.	J. H. Rowell, labor,	5.00
Nov. 9.	J. V. Sullivan, concrete,	6.41
	Concord Horse Railroad,	193.00
11.	E. G. & G. A. Cummings, con- crete,	22.05
12.	G. A. Young, concrete,	6.38
	W. D. Ladd, "	4.05
	H. C. Bailey, "	10.80
	L. Johnson, "	3.57
14.	N. B. Sinclair, "	2.87
	J. F. Webster, "	2.97
	F. Evans, "	27.41
	I. M. Savage, "	4.47
	James McLaughlin, concrete,	11.44
15.	N. White, estate of, "	22.55
	Miss Quimby, "	27.10
17.	Henry Brown, "	10.86
18.	George Abbott, "	7.16
	John Mitchell, "	6.21
	North Cong. Church, "	11.31
	M. R. Holt, "	15.00
21.	F. A. Fisk, "	34.98
	Mrs. Emerson, "	11.90

Nov. 29.	B. Booth,	concrete,	\$16.24
	W. S. Davis,	"	12.78
Dec. 8.	Warren Couch,	"	6.60
	James Sullivan,	"	10.96
	J. H. Rowell, labor,		9.00
13.	J. S. Norris, concrete,		25.00
23.	Geo. W. Crockett, concrete,		12.42
27.	Andrew Lane,	"	7.24
	Curtis White,	"	10.84
	J. C. Edgerly,	"	1.57
	Dr. Wm. G. Carter,	"	4.20
	Mrs. Merriam,	"	5.00
31.	J. H. Lamprey, manure,		33.00
	Dr. Foster, concrete,		6 41
	Mrs. S. Seavey, concrete,		34.66
	C. T. Ballard,	"	21.77
	Charles Abbott,	"	16.56
	Mrs. Moulton,	"	17.86
	Charles P. Rowell,	"	5.35
	Mrs. Leavett,	"	7.85
	Mrs. Kimball,	"	4.88
	Mrs. Kenna,	"	18.89
	Fred A. Landers, street sweep-		
	ings,		5.00
	Nelson Abbott, street sweepings,		4.50
	James M. Jones,	"	4.50
	A. Glover,	"	2.00
	Charles Thompson,	"	8.00
	F. S. Crawford,	"	3.00
	T. W. Perkins,	"	3.00
	C. W. Lynam,	"	.50
	W. K. Day,	"	1.00
	John Lamprey,	"	10.40
	Arthur Henry,	"	1.00
	J. T. Kendall,	"	.50
	J. C. Estes,	"	1.00
	J. E. Rand,	"	2.00
	Thompson Rowell,	"	2.00
	A. J. Sherburne,	"	.50

Paid city treasurer, as per city clerk's receipts, \$820.34
Respectfully submitted.

GEO. A. CUMMINGS,
Com'r of Highways.

REPORT
OF THE
COMMITTEE ON SEWERS.

RECEIPTS.

1881.			
May	14.	City Order, No. 164,	\$50.00
	28.	“ “ 172,	100.00
June	1.	“ “ 197,	95.00
	3.	“ “ 206,	568.50
Aug.	17.	“ “ 345,	112.02
Dec.	7.	“ “ 618,	108.23
	28.	“ “ 637,	17.05
			\$1,050.80

EXPENDITURES.

May.	By cash paid—	
	Pay-roll,	\$240.29
	Gust Walker,	286.69
	Humphrey, Dodge & Smith,	240.07
	Woodworth, Dodge & Co.,	9.60
	Foss & Merrill,	11.00
	L. R. Fellows,	21.80
	Sundries, as per bill,	4.05
Aug. 17.	Gust Walker,	64.32
	L. R. Fellows,	45.95
	Woodworth, Dodge & Co.,	1.75
Dec. 7.	Gust Walker,	20.42
	Ordway & Ferrin,	15.44
	Humphrey, Dodge & Smith,	50.17

		By cash paid—	
Dec. 7.	Thompson Rowell & Co.,	13.20	
	Pay-roll,	9.00	
[28.	Ordway & Ferrin,	17.05	
		—	\$1,050.80

NUMBER OF FEET SEWER LAID.

State street, near Walker school-house,	144 ft.	8 in.	pipe.
Perkins street,	28 "	8 "	"
Jackson and Fremont street,	600 "	10 "	"
Rear Merchant's Block,	370 "	12 "	"
Bethel street,	150 "	8 "	"
Spring street, school-house lot,	170 "	6 "	"
Prince,	236 "	8 "	"
Rear Ford & Kimball's foundry,	200 "	8 "	"
		<hr/>	
		1898	

Pipe on hand and paid for in the above, 52 ft. 12 in.
 " " " 84 " 8 "

Respectfully submitted.

GEORGE A. CUMMINGS,
 EDWARD DOW,
 E. N. SHEPARD.

REPORT
OF THE
COMMITTEE ON CITY FARM.

To the City Council :

The undersigned Joint Standing Committee on the City Farm, respectfully present the twenty-ninth annual report of the receipts and expenditures of the city farm, for eleven months ending December 31, 1881, together with the inventory of the property of the city belonging thereto. In presenting this report your committee are of the opinion that the inmates at the farm have been well cared for by the superintendent and matron, who, by their good judgment and care, have made their homes as comfortable as can be done with the present accommodations. The management of the farm has been good, it is in a good state of cultivation, and its productions satisfactory.

GEO. A. CUMMINGS,
OMAR L. SHEPARD,
CHARLES H. PEACOCK,
JAMES FRANCIS,
Committee on City Farm.

**INVENTORY OF PROPERTY AT THE CITY FARM,
DECEMBER 31, 1881.**

Farm and buildings, \$15,000.00

PERSONAL PROPERTY—LIVE STOCK.

11 cows, <i>a</i> \$40,	\$440.00	
6 heifers, <i>a</i> \$20,	120.00	
1 bull,	20.00	
1 calf,	10.00	
2 horses,	100.00	
45 fowls, <i>a</i> \$.60,	27.00	
3 fat hogs,	94.50	
6 shoats,	36.00	
	<hr/>	\$847.50

HAY AND GRAIN.

20 tons English hay, <i>a</i> \$20,	\$400.00	
7 tons stock hay, <i>a</i> \$10,	70.00	
3 tons rowen, <i>a</i> \$18,	54.00	
5 tons oat straw, <i>a</i> \$14,	70.00	
5 tons corn fodder, <i>a</i> \$10,	50.00	
150 bushels corn, <i>a</i> \$.90,	135.00	
8 bushels rye, <i>a</i> \$1.10,	8.80	
150 bushels oats, <i>a</i> \$.65,	97.50	
10 bushels buckwheat, <i>a</i> \$1,	10.00	
1½ bushels grass seed,	4.50	
500 pounds meal,	7.50	
	<hr/>	\$907.30

FARMING TOOLS.

5 plows,	\$45.00
1 two-horse sled,	10.00
1 two-horse sled (traverse),	35.00
1 pung sleigh,	25.00
1 Keene sleigh,	60.00
1 express wagon,	50.00
1 mowing machine,	75.00
1 knife-grinder,	10.00
1 horse-rake,	35.00
2 buffalo robes,	25.00

5 yokes,	\$10.00
2 cultivators,	10.00
1 horse-hoe,	11.00
3 harrows,	15.00
2 hay cutters,	15.00
1 set harness,	20.00
1 " " "	10.00
1 set draft harness,	15.00
1 single harness,	12.00
10 hay-forks,	3.00
12 feed-boxes,	2.00
2 two-horse carts,	130.00
1 two-horse wagon,	100.00
1 fan-mill,	5.00
1 corn-sheller,	5.00
5 one-bushel baskets,	2.00
1 set dry measures,	1.00
7 meal bags,	1.40
5 manure forks,	3.00
6 draft chains,	7.00
4 small chains,	1.00
5 hoes,	1.50
2 garden hoes,	.50
2 manure hooks,	1.00
5 shovels,	2.50
2 picks,	2.00
5 whiffletrees,	7.00
2 iron bars,	3.00
1 witch-chain,	.75
1 cart-body,	10.00
2 screw wrenches,	1.00
1 hammer,	.50
4 corn-cutters,	.80
2 steelyards,	1.50
1 mallet,	.25
4 chisels,	1.50
3 garden rakes,	1.50
2 cross-cut saws,	6.00
1 jack-screw,	4.00
1 bit-stock and 13 bits,	4.00
1 hand-saw,	.75
1 pair pole-straps,	1.50
2 halters,	1.00

1 drag-rake,	\$1.00	
3 planes,	3.00	
3 augers,	1.50	
6 axes,	3.00	
1 snow-shovel,	.75	
1 grindstone,	3.00	
4 scythes and snaths,	2.00	
2 bush scythes and snaths,	3.00	
50 feet rope,	1.00	
3 rakes,	.67	
1 spread-chain,	1.50	
3 wood saws,	2.00	
2 ladders,	1.00	
1 wheelbarrow,	6.00	
1 stone-drag,	5.00	
1 spade-fork,	1.00	
1 branding-iron,	1.00	
1 oil-stone,	1.00	
1 pair whiffletrees and evener,	3.50	
1 saw-set,	1.00	
1 grain cradle,	3.50	
1 spade,	1.00	
1 pair ice-tongs and 2 ice-hooks,	1.50	
20 cords manure,	70.00	
100 chestnut posts,	7.00	
	—	\$925.87

PROVISIONS AND FAMILY STORES.

150 lbs. salt pork,	\$21.00
12 lbs. lard,	1.80
6 lbs. butter,	1.80
75 gallons vinegar,	18.75
2 vinegar casks,	2.00
1 gallon boiled cider,	.75
5 barrels flour,	42.50
12 lbs. dried apple,	.96
30 dry casks,	4.50
25 cords dry wood,	125.00
25 cords green wood,	75.00
2500 feet lumber,	20.00
1 meat saw,	1.25
dairy utensils,	10.00

3 bushels fine salt,	\$2.25	
4 lbs. tea,	2.40	
2 lbs. coffee,	.66	
7 barrels apples,	17.50	
10 cider casks,	3.00	
150 bushels potatoes,	150.00	
12 " "	4.00	
25 bushels beets,	13.50	
6 bushels turnips,	2.00	
10 bushels carrots,	5.00	
9 bushels white beans,	27.00	
5 bushels speckled beans,	15.00	
200 bushels mangel-wurzels,	66.67	
$\frac{3}{4}$ barrel soap,	3.00	
50 lbs. hard soap,	3.00	
200 lbs. sugar,	21.00	
8 lbs. raisins,	1.20	
3 lbs. starch,	.30	
2 lbs. cream tartar,	1.00	
8 gallons pickles,	4.80	
	<hr/>	\$668.59

HOUSEHOLD FURNITURE.

1 washing-machine,	\$5.00	
1 clothes-wringer,	7.00	
beds, bedding, and furniture,	500.00	
	<hr/>	\$512.00
		<hr/>
		\$3,861.26

STATEMENT OF RECEIPTS AND EXPENDITURES
AT CITY FARM, FOR ELEVEN MONTHS, ENDING DECEMBER
31, 1881.

RECEIPTS.

From vegetables,	\$24.55
stone quarries,	97.30
clothing and bedding,	29.86
labor,	2.00
provisions,	48.95

From expense,	\$9.00	
hay and grain,	242.76	
wood and lumber,	362.15	
live stock,	405.00	
dairy,	97.32	
boarding,	263.11	
City of Concord,	91.26	
	<u> </u>	\$1,673.26

EXPENDITURES.

For farming tools,	\$51.05	
repairs and improvements,	38.69	
clothing and bedding,	76.94	
labor, including supt's salary,	1,148.36	
provisions,	384.38	
expense,	193.52	
hay and grain,	56.65	
live stock,	453.25	
	<u> </u>	\$2,402.84

STATEMENT.

Appraised value of farm and build- ings, Feb. 1, 1881,	\$15,000.00	
Appraised value of personal property, Feb. 1, 1881,	3,472.63	
	<u> </u>	\$18,472.63
Appraised value of farm and build- ings, Dec. 31, 1881,	15,000.00	
Appraised value of personal property, Dec. 31, 1881,	3,861.26	
	<u> </u>	\$18,861.26
Increase,		<u> </u> \$388.63

CASH ACCOUNT.

Cash on hand, Feb. 1, 1881,	\$1,347.02	
Received since,	1,315.03	
	<u> </u>	\$2,662.05

Paid out,		\$2,662.05
Bills payable,	\$697.83	
Bills receivable,	459.77	
	<hr/>	
Against the farm,	\$238.06	

SUPPORTED AT CITY FARM,
From February 1 to December 31, 1881.

COUNTY PAUPERS.

Names.	Age.	No. of days at Farm.
James W. Powers,	80	334
Sarah J Sargent,	51	334
Joseph Glines,	85	334
Orrilla Batchelder,	70	334
William Jackson,	71	334
Abbie E. Carter,	14	99
Joseph Frazier,	16	19
		<hr/> 1788

CITY PAUPERS.

Hattie E. Bodwell,	34	282
Flora B. Powell,	9	303
Mary A. Powell,	5	303
George L. Powell,	4	303
John H. Powell,	2	303
Daniel O'Connell,	—	5
		<hr/> 1499
		<hr/> 3287

Number at farm, January 1, 1882, 9.

Paupers who have died during the Year.

Hattie E. Bodwell, Sept. 14, 1881.

Number discharged during the year, 3.

Number of different paupers at farm during the year, 13.

Average number for the year, 9 2-9.

FOURTEENTH ANNUAL REPORT
OF THE
OVERSEER OF THE POOR,
FOR ELEVEN MONTHS, ENDING DEC. 31, 1881.

To the Board of Mayor and Aldermen :

GENTLEMEN : The undersigned herewith submits the fourteenth annual report of expenditures for the poor, including Wards 1 and 2, exclusive of aid rendered at the almshouse, for eleven months ending December 31, 1881, as follows :

Families and individuals having a settlement in the city have been aided in part or in full, during the time, to the amount set opposite their respective names.

John J. Burke,	\$20.00
William Fagan,	18.00
Nathaniel K. Emery,	27.00
J. W. Harriman, 1880,	5.00
Mrs. J. K. Page,	71.50
Mrs. J. N. Sullivan,	27.00
Benjamin S. Clay,	24.57
Morris Lamprey,	3.00
Frank H. Blanchard,	1.75
James C. Taylor,	2.00
Nelson Young,	86.04
L. C. Taylor,	5.00
Hattie E. Bodwell,	13.00
Henry J. Powell,	9.00
Mrs. L. Welch,	20.50

Alvin Welch,	\$3.25	
Mrs. Ralph R. Evans,	21.12	
Mrs. John Williams,	40.00	
Mrs. P. Donahoe,	95.50	
E. B. H. Clisby,	71.18	
Mrs. Jennie Tuttle,	33.00	
Mrs. C. Randall,	19.12	
J. Everett Hutchins,	44.00	
John B. Baker,	6.00	
Thomas Haines,	3.00	
William Edmunds,	56.80	
Aaron Lamprey,	67.50	
Caroline M. Edmunds,	20.00	
James Dorety,	6.50	
William Craigue,	2.00	
	<hr/>	\$822.33

Families and persons aided having a settlement in other towns in the state :

Mrs. Delia Sippet,	\$49.11	
Charles H. Johnson,	95.43	
John W. Berry,	24.63	
Charles W. Foster,	11.35	
	<hr/>	\$180.25

Paid N. H. Asylum for the Insane as follows :

For board and other expenses of Betsey, wife of Michael Haynes,	\$50.17	
For board and other expenses of Abner F. Durgin,	39.67	
For board and other expenses of Ellen M. Summers,	221.03	
For board and other expenses of William Craigue,	26.56	
	<hr/>	\$337.43
		<hr/>
		\$1,340.28

CR.

Received of the town of Goffstown, for aid of Mrs. Delia Sippet,	\$49.11
Received of town of Weare, for aid of C. H. Johnson and family,	95.43

Received of town of Bridgewater, for aid of John W. Berry,	\$24.68	
Received of town of Wilton, aid to Chas. W. Foster,	11.35	
	<hr/>	\$180.52
Amount expended for city paupers,		<hr/> <hr/> \$1,159.76

COUNTY PAUPERS.

Aid rendered to county paupers residing in Concord, not including those at the city almshouse :

Godfrey Jacobs, Jr.,	\$3.00
Nancy Dorety,	21.62
Mrs. Callahan McCarty,	47.00
Mrs. R. T. Orr,	9.25
Francis F. Hoit,	8.60
J. C. Rowe,	13.25
John K. Lang,	6.50
Thomas Sullivan,	16.00
Timothy McCormick,	3.20
Mrs. P. Desmond,	49.50
N. G. Danforth,	1.63
Mrs. Sarah A. Dudley,	95.14
George C. Beckett,	39.00
Mrs. Nancy Pearson,	71.50
Mrs. Harriet Ash,	6.27
Mrs. Thomas Coty,	3.25
Michael Daily,	1.38
Augustus Martel,	8.97
Joseph Geddis,	8.00
Mrs. C. G. Miner,	6.25
R. L. Spaulding,	5.25
Anna Holland,	42.65
Mrs. John Buckley,	12.00
William Sagar,	48.00
Thomas Much,	36.59
Mrs. Elizabeth Clary,	17.37
Mrs. Lucretia Danforth	3.25
Mrs. Ellen Geary,	8.88
Timothy Malony,	6.25
Mrs. David R. Tandy,	12.00

Mrs. John F. Brown,	\$11.75
Miss Nancy Guild,	3.00
William H. Pitman,	27.14
Kate Bresnahan,	21.25
Isaac Lor,	7.00
Benjamin Rogers,	30.00
Irving E. Chandler,	9.00
Mrs. Cordelia Patterson,	76.50
Samuel Floyd,	2.00
Mary Hannagan,	47.00
Mary Gorman,	50.18
John Welcome,	7.53
George G. McKinty,	14.53
Mrs. N. Florence,	91.00
George W. Ash,	3.90
Henry Vellenoweth,	82.72
Simeon B. Sampson,	3.25
Edward R. Stevens,	15.50
Mrs. Mary Storin,	19.87
Mrs. Melvina Coty,	8.00
George W. Foote,	20.00
Charles F. Pike,	23.76
Nathaniel M. Sanborn,	18.35
Theodore Woodbury,	24.01
George Cross,	4.75
J. S. Bean,	63.00
Mrs. Mary P. Burnham,	59.75
Mrs. R. Cooper,	96.00
Mrs. R. M. Allen,	27.75
David Tandy,	86.75
Alfred Minar,	74.25
Mrs. Baka Butler,	43.75
W. H. Towle,	37.48
Abial Stevens,	21.50
Mrs. Michael Martin,	111.07
M. B. Lawrence,	3.70
Walter S. Hall,	13.77
William Edmunds,	56.80
Mrs. Bouton,	7.50
George S. Giles,	215.22
William King,	3.25
Mrs. R. Smith,	71.50
John Paine,	3.00

Joseph Wells,	169.07	
Mrs. Frances Wheeler,	7.30	
Mrs. Mary Marsh,	8.00	
Mrs. Mary Taggard,	38.00	
Mrs. Mary Lee,	4.00	
Transients,	128.81	
	<hr/>	
Amount paid for county paupers off the farm, Seven persons chargeable to the county have been supported wholly or in part at the city almshouse, at an expense of		\$2,584.76
		289.64
Total amount paid by the city for support of county paupers for eleven months,		2,874.40
Total amount paid on city pauper account,		1,159.76
	<hr/>	
Total paid out on pauper account for eleven months, ending Dec. 31, 1881,		\$4,034.16
Amount paid for medical attendance,		310.80
Chargeable to the city,	\$55.50	
“ “ county,	255.30	
	<hr/>	\$310.80
Whole number of persons aided,		328
Number having a settlement in the city,	106	
“ “ “ “ county,	188	
Transients persons receiving aid,	34	
	<hr/>	328

Respectfully submitted.

JOSEPH A. COCHRAN,
Overseer of the Poor.