

1921

# City of Bangor Mayor's Address The Annual Reports of the Several Departments and the Receipts and Expenditures for the Ten Months Ending December 31, 1921

Bangor (Me.)

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## Repository Citation

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CITY OF BANGOR, MAINE



MAYOR'S ADDRESS

THE ANNUAL REPORTS

OF THE SEVERAL DEPARTMENTS

AND THE

RECEIPTS AND EXPENDITURES

FOR

Ten Months Ending December 31, 1921



BANGOR, MAINE  
BANGOR CO-OPERATIVE PRINTING CO.

1922



# Bangor City Government

1921

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Mayor, JARVIS B. WOODS

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## ALDERMEN

Ward 1. Edward R. Hickson	Ward 2. Chas. J. Ferry
Ward 3. E. Earle Herrick	Ward 4. Benj. W. Mayo
Ward 5. Archie R. Lovette	Ward 6. Charles J. Jones
Ward 7. John H. Magee	

## COMMON COUNCIL

President, Henry J. Wheelwright

### Ward 1

Stanley M. Conners	Bartholomew C. Millett, Jr.	Frank Karam
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### Ward 2

Harold B. Marshall	Daniel A. Sargent	Dennis J. Cullinan
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### Ward 3

Fred L. Ricker	Arthur G. Williams	C. Leopold Winchester
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### Ward 4

Frank MacLennan	Ray S. Morse	A. J. Richardson
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### Ward 5

Henry J. Wheelwright	Carroll A. Weeks	Frank L. Mower
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### Ward 6

Leroy M. Howes	Harvey E. Knowles	William R. Ballou
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### Ward 7

William F. White	Martin J. McDonough	Harold L. Barton
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Clerk of Board, Thomas G. Donovan





## Mayor's Address

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*To the City Council and Citizens:—*

To me it seems absurd for a newly elected mayor, who has not been in close touch with city affairs, to embody in the so-called inaugural address a lot of recommendations and advice, the carrying out of which might be impracticable if not impossible. I do not intend to begin the year pledged to any particular line of action. Neither do I intend to embarrass the incoming city council by any pledges made by me. Personally, I have promised the people of Bangor that I would devote my time and energy in the interest of all the people. That I will do.

I have also promised that I would do anything within reason for the schools. That I will do. I have not doubt that I shall have the unanimous backing of the city council for anything along these lines. I believe that every member of the newly elected city council has the interest of his city at heart.

The world has been dancing along at a mad pace for the past five years. We can not continue the dance much longer and be able to pay the fiddler. Let us get back and talk about dollars and cents. We understand that better than we do millions and billions. In other words, let us get back for a time to the good old New England methods of thrift which have made us what we are and built for us what we have. Bangor needs more action and less conversation.



## Report of the City Auditor

*To the Honorable, the Mayor and City Council  
of the City of Bangor,  
Bangor, Maine.*

Sirs:

On account of the change in the fiscal year, this report deals with ten months Revenue and Non-Revenue Expenditures, viz.—March 1, 1921 to and including December 31, 1921.

### CASH

The cash receipts for ten months were . . . . .		\$1,504,081. 40
Received from School House Fund for Treasury Warrants paid . . . . .		6,658. 85
Trust Fund—Account of Hiram Oliver Fund. . .		19. 41
		\$1,510,759. 66
Transferred to Trust Fund Cash:		
Firemen's Relief Fund earned ..	\$419. 98	
Less: Expended . . . . .	84. 50	
	\$335. 48	
French Medal Fund earned . . . .	\$291. 44	
Less: Expended . . . . .	222. 57	
	\$68. 87	
Holton Medal Fund earned . . . .	\$100. 00	
Less: Expended . . . . .	58. 52	
	\$41. 48	
	\$445. 83	
Cash Receipts for ten months . . . . .		\$1,510,313. 83
Balance March 1, 1921 . . . . .		14,447. 75
		\$1,524,761. 58
Total Cash . . . . .		1,398,314. 61
Paid Treasury Warrants . . . . .		\$126,446. 97
Balance . . . . .		

## TRUST FUND CASH

Balance March 1, 1921 . . . . .	\$4,681.38	
Received from Fogg Fund . . . . .	25.00	
Received from Firemen's Relief Fund .	335.48	
Received from French Medal Fund . . .	68.87	
Received from Holton Medal Fund . .	41.48	
	<hr/>	
	\$5,152.21	
Paid General Cash account of Hiram Fogg Fund . . . . .	19.41	
	<hr/>	\$5,132.80
		<hr/>
Total Cash Balance . . . . .		\$131,579.77

Details of Cash December 31, 1921.		
Petty Cash . . . . .		\$1,015.00
Deposit made up (to be deposited) . . .		5,449.29

## Bank Balances:

Eastern Trust & Banking Co. . . . .	\$34,461.85	
Merrill Trust Company . . . . .	22,776.52	
First National Bank . . . . .	17,073.20	
Merchants National Bank, Bangor . . . . .	11,271.63	
Merchants National Bank, Boston . . . . .	39,532.29	
	<hr/>	\$125,115.49
		<hr/>
		\$131,579.78
		<hr/> <hr/>

## Bonds Outstanding March 1, 1921.

Municipal . . . . .	\$710,000.00
Water . . . . .	500,000.00
	<hr/>
	\$1,210,000.00

## Retired during Ten Months:

Municipal Bonds . . . . .	15,000.00
	<hr/>
	\$1,195,000.00
	<hr/> <hr/>

Note: January 1, 1922, \$15,000.00 municipal bonds were due and were paid on that date, so that reduced the municipal bonds outstanding to \$680,000.00.

1922]

## CITY OF BANGOR

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Balance of Water Loan Sinking Fund was March 1, 1921 . . . . .	\$149,752.90
Amount appropriated by City, Year 1920 . . . . .	12,000.00
Interest allowed by bank . . . . .	48.72
Coupon Interest . . . . .	7,047.27
Annual Appropriation by City for Year 1921 . . . . .	12,000.00
	<hr/>
Total Water Loan Sinking Fund . . . . .	<u>\$180,848.89</u>

Two years appropriations by City were paid to Water Loan Sinking Fund Cash during the ten months.

## RESERVE FOR NEW SCHOOL HOUSE

Cash Unexpended, March 1, 1921 . . . . .	\$5,988.05
Interest received on deposit . . . . .	3.69
	<hr/>
	\$5,991.74
Expended and Transferred . . . . .	5,988.05
	<hr/>
Balance Unexpended . . . . .	<u>\$3.69</u>

Water Coupon Reserve (for coupons due but not presented for payment):

Balance March 1, 1921 . . . . .	\$540.00
Coupons paid . . . . .	520.00
	<hr/>
Outstanding . . . . .	<u>\$20.00</u>

Municipal Coupon Reserve (for coupons due but not presented for payment):

Balance, March 1, 1921 . . . . .	\$720.00
Coupons paid . . . . .	700.00
	<hr/>
Outstanding . . . . .	<u>\$20.00</u>

The valuation of the property in the City of Bangor as at April 1, 1921, reported by the Assessors was:

Real Estate . . . . .	\$19,136,865.00
Personal Property . . . . .	8,721,072.00
	<hr/>
Total . . . . .	<u>\$27,857,937.00</u>

The Borrowing Capacity allowed by the State is 5% of	
above.....	\$1,392,896.85
Bonds Outstanding.....	1,195,000.00
	<hr/>
	\$197,896.85
Less: School Equipment guarantee to the United States	
Army.....	24,900.00
	<hr/>
	\$172,996.85
Add: Bonds paid January 1, 1922, for which provision	
had been made.....	15,000.00
	<hr/>
Borrowing Capacity.....	<u>\$187,996.85</u>
The total Revenue and Non-Revenue appropriations made	
for a year or from March 1, 1921 to March 1, 1922, were	\$990,427.52
Expenditures ten months.....	830,190.98
	<hr/>
Unexpended Balance January 1, 1922 Carried Forward	<u>\$160,236.54</u>
Estimated Revenue as per Budget.....	\$274,280.20
Estimated Revenue earned in ten months.....	249,441.68
	<hr/>
Deficit to January 1, 1922.....	<u>\$24,838.52</u>

This deficit would not have occurred if the Water Revenue for January had been used as of December. Provision was made in the Budget to take care of \$10,000.00 water coupons coming due on January 1st; also Budget provided for January and February operating expenses of Water Department.

There was a reserve set up for the Water Department Emergency Fund of \$6,686.83, as at February 28, 1922.

An inventory of City Property should be made.

Statements A, B C and D show the standing of Revenue accounts.

Schedule 1 shows Miscellaneous Revenue; Schedules 2 and 3, Operating Expenses, Additions and Betterments; Schedule 4, Bonded Indebtedness; Schedule 5, Trust Funds.

In closing I wish to thank the Mayor and Members of the various Committees for their assistance and co-operation during the year.

Respectfully submitted,

L. C. Everett,

City Auditor.

## REVENUE EXPENDITURES

For the Ten Months Ended December 31, 1921

### GENERAL GOVERNMENT

**Aldermen and Council:**

Salary .....		\$104.17
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**General Expenses:**

Bacon, John Printing Co., Printing folders .....		14.00
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Bangor Co-Operative Ptg. Co., Printing Rules and orders of City Council .....		63.00
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Bass, J. P. Publishing Co., Advertising .....		47.67
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Total General Expenses ...		\$124.67
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**Mayor:**

Salary .....		\$1,250.00
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**General Expenses:**

Bangor Post Office, Stamps .....		\$2.00
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Burr, T. W. Ptg. & Adv. Co., Envelopes .....		10.10
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Portland Directory Co., Directory and Maine Register .....		8.00
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Doering, Jennie A., Clerk .....		528.00
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New England Tel. & Tel. Co. ....		12.50
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Royal Typewriter Co., Typewriter ribbon .....		1.00
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Sullivan, Dan T., Paper, ink, etc. ...		10.83
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Supply Dept., Vouchers, blanks, etc.		7.85
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Total General Expenses ...		\$580.28
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**Auditor and Auditing:**

## Salaries and Wages:

Auditor . . . . .	\$1,666.67	
Assistant . . . . .	1,048.00	
	<hr/>	
Total Salaries and Wages . . .		\$2,714.67

## General Expenses:

American Ribbon & Carbon Co., Coupon for ribbons . . . . .	4.50	
Bangor Post Office, Stamped envelopes . . . . .	22.46	
Burr, T. W. Ptg. & Adv. Co., Printing and envelopes . . . . .	474.50	
Burroughs Adding Machine Co., Care of machine, paper and ribbon . . . . .	15.40	
Kee Lox Mfg. Co., Carbon paper . . .	4.50	
Portland Directory Co., Directory	4.00	
Somers, L. W., Bond . . . . .	20.00	
Sullivan, Dan T., Office supplies . . .	34.20	
Suply Dept., Vouchers, blanks, etc..	10.27	
Underwood Typewriter Co., Typewriter . . . . .	112.50	
	<hr/>	
Total General Expenses . . .		\$702.33

**Treasurer and Collector:**

## Salaries and Wages:

Treasurer and Collector . . . . .	\$1,666.67	
Clerks . . . . .	2,127.00	
Deputy Collector . . . . .	857.94	
Treasurer and Collector, Extra Pay on account of Taxes . . . . .	200.00	
	<hr/>	
Total Treasurer and Collector . . . . .		\$4,851.61

## General Expenses:

American Railway Express Co., Freight on sealer . . . . .	.53	
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## Treasurer and Collector—Continued

Bacon, John Printing Co., Envelopes and printing tax notices and receipts.....	229.47
Bangor Post Office, Box rent and stamps.....	477.41
Bangor Co-Operative Ptg. Co., Printing.....	24.75
Bangor Publishing Co., Advertising.....	63.70
Bass, J. P. Pub. Co., Advertising...	70.56
Bangor Rubber Stamp Co., Stamp and pad.....	3.80
Blake, Barrows & Brown, Inc. Bond	75.00
Burr, T. W. Ptg. & Adv. Co., Cutting and blocking paper.....	.84
Clifford, Fred H., Service on letters.....	3.78
Dillingham's, Office supplies.....	34.10
Dubois, H. W. & Co., Crayons.....	5.57
Earle, Frank W., Repairing numbering machine.....	5.00
Glass, Chas. H. Co., Letterheads...	13.25
Hitchcock, R. H., Repairing adding machine and ribbon for same....	16.90
Kee Lox Mfg. Co., Carbon paper, typewriter ribbons.....	12.00
Maine Central R. R. Co., Freight on envelopes.....	1.62
Leach, Orrin W., Boxes for tax receipts.....	53.94
Monroe Calculating Machine Co., Proportional cost of calculator...	75.00
New England Tel. & Tel. Co.....	11.45
Portland Directory Co., Directory	8.00
Remington Typewriter Co., Adjusting typewriter.....	9.75
Royal Typewriter Co., Typewriter, keys, etc.....	72.15
Smith, Maurice C. Co., Pads, Ink..	2.05
Star Store, The, Boston bag.....	1.79
Sullivan, Dan T., Office Supplies...	8.48
Supply Dept., Vouchers, Blanks, etc.....	6.28
Transo Envelope Co., Envelopes...	57.65

## Treasurer and Collector—Continued

Vose, P. H. Co., Cuspidor . . . . .	1.00	
Webster, F. S. Co., Stamp ribbons . .	3.50	
Wilder, Julian, Sealer . . . . .	34.30	
Williams, Carroll P., Type Cleaner .	1.00	
		<hr/>
Total General Expenses . . .		\$1,384.62

## Assessors:

## Salaries and Wages:

Assessors . . . . .		\$3,750.00
Assistant Assessors:		
Davis, Samuel, Ward 1 . . . . .	75.00	
Mayo, Gideon, Ward 5 . . . . .	60.00	
Runnels, Percy, Ward 3 . . . . .	78.00	
Stover, Elsie T., Ward 4 . . . . .	75.00	
Taylor, Wm. S., Ward 7 . . . . .	84.00	
Thoms, Henry B., Ward 6 . . . . .	81.00	
Wood, Ashley B., Ward 2 . . . . .	87.00	
		<hr/>
		\$540.00
Clerks . . . . .		874.00
		<hr/>
Total Salaries and Wages . . . . .		\$5,164.00

## General Expenses:

Bangor Post Office, Stamps . . . . .	\$5.00
Bangor Publishing Co., Advertising . . . . .	16.58
Bangor Rubber Stamp Co., Stamp . . . . .	.75
Bass, J. P. Pub. Co., Advertising . . . . .	14.70
Brown, Ralph E., Teams . . . . .	14.00
Burr, T. W. Ptg. & Adv. Co., Printing, etc . . . . .	81.20
Burroughs Adding Machine Co., Cleaning machine . . . . .	14.00
Clifford, Fred H., Service on letters . . . . .	7.05
Glass, Chas. H. Co., Abatement cards . . . . .	50.05
Haskell, H. S., Trips to Augusta . . . . .	34.39
Haskell, Robert, Distributing Assessors' Posters . . . . .	2.50

**Assessors—Continued**

Hitchcock, R. H., Cleaning and repairing typewriters . . . . .	25.40	
Jones, Leslie Co., Tax books . . . . .	221.00	
Kee Lox Mfg. Co., Carbon paper and typewriter ribbons . . . . .	17.38	
Monroe Calculating Machine Co., Proportional cost of Calculator . .	75.00	
New England Tel. & Tel. Co. . . . .	42.70	
Portland Directory Co., Directory and Maine Register . . . . .	8.00	
Sullivan, Dan T., Office supplies . . .	6.37	
Supply Dept., Pins . . . . .	.26	
Thompson, Maude L., Abstract of transfers . . . . .	21.60	
		<hr/>
Total General Expenses . . .		\$657.93

**Law:****Salary:**

Salary of City Solicitor . . . . .	\$625.00	
Extra Services . . . . .	1,000.00	
		<hr/>
Total Salary . . . . .		\$1,625.00

**General Expenses:**

Clement, Olin L., Serving tax writs	\$24.50	
Craig, Warren E., Deed blanks, recording deeds . . . . .	1.22	
Firth, Elizabeth I., Multigraphing letters, typing ordinance . . . . .	17.99	
Fleming, Geneva, Making out tax writs . . . . .	5.00	
Mason, Frank T., Law suits summons . . . . .	105.79	
Mountaine, J. B., Expenses out of city . . . . .	367.75	
Sheehan, J. Fred, Law suits summons . . . . .	5.75	
Sweet, Chas. F., Copies and abstracts of writs . . . . .	15.20	
		<hr/>
Total General Expenses . . .		\$543.20

## City Clerk:

## Salaries, Fees and Wages:

## Fees

Brett, Victor .....	\$12.00
Salary of Clerk .....	833.33
Salary of Assistant .....	792.00
	<hr/>
Total Salaries and Wages . . .	\$1,637.33

## General Expenses:

American City, The, Subscription to magazine. ....	\$4.00
Andrews, A. R. Co., Typewriter ribbon coupons .....	11.00
Bacon, John H. Ptg. Co., Printing. .	18.20
Bangor Publishing Co., Advertising .....	23.68
Bass, J. P. Publishing Co., Advertising .....	9.31
Brett, Victor, Stamps, express, mailing reports .....	38.69
Burr, T. W. Ptg. & Adv. Co., Printing .....	18.85
Dillingham's, Books .....	37.00
Earle, Frank W., Repairs on seal . . .	1.00
New England Tel. & Tel. Co. ....	2.10
Portland Directory Co., Directory, Maine Register .....	8.00
Smith, Maurice C. Co., Repairing dater, ink .....	3.21
Sullivan, Dan T., Office supplies . . .	29.51
Underwood Typewriter Co., Typewriter .....	102.50
Western Union Telegraph Co., Clock rent .....	11.25
	<hr/>
Total General Expenses . . .	\$318.30

## Supply Department:

## General Expenses:

Salary of Clerk .....	\$694.00
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## Supply Department—Continued

Bangor Post Office, Stamped envelopes.....	22.24	
Bangor Publishing Co., Advertising.....	21.30	
Bass, J. P. Publishing Co., Advertising.....	5.04	
Burr, T. W. Ptg. & Adv. Co., Vouchers.....	69.70	
Dubois, H. W. & Co., Pencils and clips.....	12.00	
Glass, Chas. H. Co., Order books...	139.85	
Lowell Printing Co., Commitment sheets.....	28.00	
New England Tel. & Tel. Co.....	25.42	
Sullivan, Dan T., Ink, fasteners, etc.....	5.09	
Williams, Carroll P., Type cleaner..	1.00	
		\$1,023.64
Credit.....		82.94
Total General Expenses ...		\$940.70

## Engineering:

## Salaries and Wages:

City Engineer.....	\$1,416.67	
Assistants.....	2,253.86	
Street Engineers.....	125.00	
Catch Basin and Manhole Locations	134.75	
Total Salaries and Wages ...		\$3,930.28

## General Expenses:

American Railway Express Co., Express.....	\$13.89	
American Automobile Assn., Green book.....	3.00	
Bangor Publishing Co., Advertising.....	38.13	
Bangor Savings Bank, Storage.....	6.00	
Bangor Window Shade Co., Rollers.	.75	
Bass, J. P. Pub. Co., Advertising...	24.01	

## Engineering—Continued

Berry & Smith, Flags.....	5.88
Boulter, J. J. & Son, Welding.....	1.00
Burr, T. W. Ptg. & Adv. Co., Printing.....	42.35
Dunham-Hanson Co., Emery paper	.28
Engineering Pub. Co., Subscription	
to magazine.....	2.00
Freese, A. L., Red cloth.....	1.50
Good Roads, Subscription to maga-	
zine.....	3.00
Gurley, W. & L. E., Service rod....	15.63
Hall, Edwin O., Erasers, tracing	
cloth powder.....	1.35
Haynes & Chalmers Co., Lanterns,	
globes, rules, etc.....	34.18
Dyer & Rounds, Repairs for silent	
policemen.....	8.90
Great Northern Paper Co., Blue	
prints.....	13.47
Kelley, E. F. & Sons, Repairing traf-	
fic sign.....	1.46
Kirstein, Louis & Sons, Compensa-	
tion insurance.....	24.75
Lynch, M. & Co., Keys.....	1.55
Makepeace, B. C., Tracing cloth,	
leveling rod, etc.....	47.58
Marston, E. B. Sign Co., Signs.....	26.70
McGraw-Hill Book Co., Book.....	7.00
Monroe Calculating Machine Co.,	
Proportional cost of calculator...	75.00
Nason, David J., Expenses out of	
City.....	25.54
New England Tel. & Tel. Co.....	76.81
Pay Roll.....	72.26
Portland Directory, Directory and	
Maine Register.....	8.00
Queen City Granite Co., Labor on	
street monument.....	6.25
Morse & Co., Stakes.....	30.00
Snow & Nealley Co., Rope.....	.75
Standard Oil Co., of N. Y., K. oil...	30.00
Sullivan, Dan T., Office Supplies...	25.70
Traffic Sign & Signal Co., Signs,	
panels.....	28.50

**Engineering—Continued**

Union Iron Works, Cutting steel . . . .	1.16	
	<hr/>	
	\$704.33	
Credit: Damage to Silent Police- men . . . . .	8.75	
	<hr/>	
Total General Expenses . . .		\$695.58

**Inspector of Buildings:**

Salary of Inspector . . . . . \$250.00

## General Expenses;

## City Hall:

Chute, H. E., Repairing chair . . .	\$2.00	
Haynes & Chalmers Co., Oil and nails . . . . .	.74	
Pay Roll . . . . .	331.00	
Rice & Miller Co., Material for re- pairs . . . . .	3.87	
Tucker, Frank E., Repairing furni- ture . . . . .	3.75	
	<hr/>	\$342.06

## City Stables:

Fairbanks Bros., Plumbing repairs .	.90	
Pay Roll . . . . .	6.50	
Reid, Geo. W., Carpenter repairs . .	305.51	
Rice & Miller Co., Material for re- pairs . . . . .	6.31	
	<hr/>	\$319.22

## Fire Stations:

Babb, C. H. & Co., Plumbing and heating repairs . . . . .	201.33	
Boulter, J. J. & Son, Welding . . . . .	1.50	
Dyer & Rounds, Heating repairs . . .	27.05	
Fairbanks Bros., Plumbing repairs .	25.05	
Haynes & Chalmers Co., Paint, oil, etc. . . . .	153.64	
Pay Roll . . . . .	741.40	



## Inspector of Buildings—Continued

Rice & Miller Co., Material for repairs.....	100.55	
Reid, Geo. W., Carpenter repairs...	332.15	
Tibbetts, D. G., Carpenter repairs	100.51	
		\$1,683.18

## Electric Station:

Haynes & Chalmers Co., Material for repairs.....	148.90	
Pay Roll.....	487.70	
Reid, Geo. W., Carpenter repairs...	59.59	
Rice & Miller Co., Material for repairs.....	20.37	
		\$716.56

## Almshouse:

Dunham-Hanson Co., Wire brush .	.50	
Fairbanks Bros., Plumbing repairs .	311.38	
Mason, James H., Plumbing repairs	43.21	
Pay Roll.....	83.00	
		\$438.09

## Pumps:

Babb, C. H. & Co., Material for repairs.....	\$115.25	
Boulter, J. J. & Son, Welding.....	5.75	
Bragg, N. H. & Sons, Material for repairs.....	2.03	
Conant, C. M. Co., Material for repairs.....	30.56	
Dunham-Hanson Co., Hatchet...	1.75	
Dunning, R. B. & Co., Material for repairs.....	82.35	
Pay Roll.....	305.50	
Rice & Miller Co., Material for repairs.....	15.71	
		\$558.90

## Inspector of Buildings—Continued

## Court Street Building:

Fairbanks Bros., Plumbing repairs . . . . .	\$12.41	
Haynes & Chalmers Co., Material for repairs . . . . .	216.77	
Maine Plumbing Co., Connecting conductors with drain . . . . .	128.01	
Pay Roll . . . . .	371.35	
Reid, Geo. W., Repairs . . . . .	14.17	
	<hr/>	\$742.71

## Ward Rooms:

Pay Roll . . . . .	22.75	
Tucker, Frank E., Repairing table and door . . . . .	6.25	
	<hr/>	\$29.00

## General:

Kane, Michael, Painting Mt. Pleas- ant Hearse . . . . .	75.00	
Kirstein, Louis & Sons, Insurance on Dort . . . . .	24.75	
Maine Central R. R. Co., Freight on paint . . . . .	5.39	
Pay Roll . . . . .	22.75	
Pioneer Mfg. Co., The, Paint . . . . .	159.00	
Rice & Miller Co., Paint, etc. . . . .	16.08	
Sullivan, Dan T., Paper, pencils. . . . .	10.04	
	<hr/>	\$313.01

Total General Expenses . . . . . \$5,142.73

## Election and Registration:

## Salaries and Wages:

## Board of Registration:

Brown, W. M. . . . .	80.00	
Blunt, Eben W. . . . .	32.00	
Gallagher, James A. . . . .	588.00	
Thoms, Henry B. . . . .	68.00	
Gleszer, Edward I. . . . .	420.00	
Southard, Wm. E. . . . .	605.00	
	<hr/>	\$1,793.00
Election Officers . . . . .		1,270.50

## Election and Registration—Continued

## Clerk:

Brett, Victor . . . . .	117.00	
	<hr/>	
Total Salaries and Wages . . .		\$3,117.50

## General Expenses:

Atwood, H. W., Cleaning Ward 2 . .	\$15.00	
Bangor Co-Operative Ptg. Co., Stamped envelopes, blanks, etc. . .	30.50	
Bangor Rubber Stamp Co., Stamp .	.60	
Bass, J. P. Publishing Co., Printing and Adv. . . . .	210.06	
Bangor Publishing Co., Advertising ing. . . . .	430.14	
Brett, Victor, Check lists, etc. . . . .	132.28	
Burr, T. W. Ptg. & Adv. Co., Print- ing. . . . .	94.85	
Crossman, W. B., Wood . . . . .	8.00	
Glass, Chas. H. Co., Printing . . . . .	212.80	
Hines, Michael, Cleaning Wards 1 and 4 . . . . .	20.00	
Hollihan, T. E., Cleaning Ward 6 . .	30.00	
Kerr, John H., Cleaning Ward 7 . .	15.00	
Morse, F. S., Repairing Ward 3 pol- ling booth . . . . .	24.16	
New England Tel. & Tel. Co. . . . .	42.60	
Portland Directory Co., Directory	4.00	
Sargent, A. W., Cleaning Ward 3 . . .	15.00	
Shaw, Geo. L., Cleaning Ward 5 . .	5.00	
Sullivan, Dan T., Office supplies. . . .	8.58	
	<hr/>	
Total General Expenses . . .		\$1,298.57

## City Hall:

## Salaries and Wages:

Janitors . . . . .	\$3,512.90	
Cleaners . . . . .	930.25	
	<hr/>	
Total Salaries and Wages . . .		\$4,443.15

## City Hall—Continued

## General Expenses:

## Light:

Bangor Gas Light Co.....	\$90.69
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## Fuel:

Bacon & Robinson Co., Coal .....	\$734.43
Connor Coal & Wood Co., Wood . . .	20.00
Stickney & Babcock Coal Co., Coal.	801.54
	<hr/>
	\$1,555.97

## Moving Seats:

Archer, H. L.....	\$133.00
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## Telephone:

New England Tel. & Tel. Co.....	35.10
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## Supplies:

American Railway Express Co., Express.....	\$5.76
Bangor Broom Co., Brooms.....	7.00
Bangor Cleaning Co., The, Dust- bane.....	8.25
Bangor Ice Co., Ice.....	101.49
Bangor Stoneware Co., Jars, jugs, etc.....	15.40
Bowdlear, W. H. Co., Floor wax ..	17.28
Brown, Walter I., Pipe cleaner.....	6.00
Columbia Towel Supply Co., Tow- els.....	39.55
Dallman, H. I. Co., Floor brushes, dusters, etc.....	75.50
Dunham-Hanson Co., Brushes, tools.....	7.50
Eastern Steamship Lines, Inc. Freight.....	3.73
Ellis, M. F. & Co., Mop wringers . .	10.00
Emerson, W. S. Co., Drinking cups, bunting.....	69.87
Interstate Appliance Corp., Mant- les.....	2.55

## City Hall—Continued

Johnson, The Geo. T. Co., T. paper	54.00	
Lewis, Samuel, Dusters, brooms, etc.....	52.34	
Maine Central R. R. Co., Freight ..	6.95	
Masury-Young Co., Nodusto.....	66.00	
Noyes & Nutter Mfg. Co., Tunnel..	.29	
Otis Elevator Co., Grease.....	2.10	
Proctor & Gamble Distributing Co., Soap Powder.....	28.22	
Staples & Griffin, Sal soda.....	.90	
Stewart, Chas. M. Co., Flag.....	14.75	
Sweet, Caldwell Co., Muriatic Acid.	3.75	
West Disinfecting Co., Drinking cups.....	82.50	
Worrell Mfg. Co., The, Disinfect- ant.....	75.50	
		\$757.18

## Repairs:

Andrews Music House Co., Tun- ing piano.....	\$9.50	
Atkins, A. G., Painting repairs.....	574.42	
Atkins Bros. & Co., Painting re- pairs.....	10.50	
Bangor Gas Light Co., Work in Health office.....	11.18	
Bangor Window Shade Co., Repairs to shades.....	1.25	
Berry & Smith, Repairing flag.....	.60	
Bragg, N. H. & Sons, Steel cut.....	.26	
Chandler & Co., Rubber matting and repairing furniture.....	267.50	
Derby, G. B. Co., Trucking hoist...	.75	
Dole Co., The, Dry batteries.....	2.05	
Dunham-Hanson Co., Material for repairs.....	14.85	
Dunning, R. B. & Co., Gaskets ...	1.20	
Electric Dept., Electrical repairs...	554.97	
Hines, M. F., Painting fire escape ..	71.50	
Johnson, The Geo. T. Co., T. fix- tures.....	2.70	
Lynch, James J., Re-tubing boiler..	369.27	
Lynch, M. & Co., Repairs to locks, keys.....	10.70	

## City Hall—Continued

Maine Central R. R. Co., Freight on hoister . . . . .	1.78	
Maine Plumbing Co., Plumbing and heating repairs . . . . .	1,005.39	
Morse, F. S., Carpenter repairs . . . .	355.20	
Mulvaney Bros., Rope, splicing . . . .	8.59	
Otis Elevator Co., Packing . . . . .	5.70	
Queen City Granite Co., Roughing up granite steps . . . . .	72.50	
Rice & Miller Co., Paint, glass, etc.	157.17	
Union Iron Works, Hoist, brass . . . .	77.35	
Wheelden, H. L. Co., Shade and holders . . . . .	3.00	
		<hr/>
	\$3,589.88	
Credit: second hand gas heater . . . .	2.00	
		<hr/>
		\$3,587.88

## Insurance:

Baker & Hodge Co. . . . .	\$130.14	
Blake, Barrows & Brown, Inc. . . . .	409.60	
Boyd, J. Herbert . . . . .	507.60	
Bright, J. M. . . . .	122.11	
Byrnes, P. J. . . . .	879.80	
Curran, Wm. F. Co. . . . .	81.00	
Gallagher, Hugh T. . . . .	179.80	
Kirstein, Louis & Sons . . . . .	102.20	
McClure, J. W. & Son . . . . .	222.20	
Palmer, W. W. . . . .	254.00	
Pearl & Dennett Co. . . . .	86.80	
Somers, L. W. Co. . . . .	141.20	
Stewart, Chas. M. . . . .	179.80	
Tyler, L. C. & Sons Co. . . . .	765.57	
		<hr/>
	\$4,061.82	
Refund . . . . .	43.60	
		<hr/>
		\$4,018.22

## Furniture:

Hodgkins & Fiske Co., Office chair	\$18.00
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## City Hall—Continued

## All Other:

Bangor Cleaning Co., Cleaning Municipal Court Room . . . . .	\$156.25	
Conners, D. A., Signs . . . . .	44.25	
Derby, G. B. Co., Trucking . . . . .	1.50	
Hartley, F. P., Lettering door . . . . .	1.75	
LeBarrow, E., Cleaning gutters . . . . .	6.00	
Otis Elevator Co., Inspecting eleva- tor . . . . .	20.00	
Patten, L. P., Taking off and put- ting on outside windows . . . . .	81.87	
	<hr/>	\$311.62

Total General Expenses . . .		\$10,507.66
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## Truant Officer:

Salary . . . . .		\$416.67
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## PROTECTION OF PERSONS AND PROPERTY

## Police Department:

## Salaries and Wages:

Chief . . . . .	\$1,325.27	
Deputy . . . . .	1,351.49	
Inspector . . . . .	1,366.36	
Captains . . . . .	2,675.33	
Sergeants . . . . .	2,494.00	
Auto Drivers . . . . .	3,466.88	
Patrolmen . . . . .	29,986.00	
Specials . . . . .	1,220.00	
Cemetery . . . . .	160.00	
	<hr/>	\$44,045.33
Total Salaries and Wages . . .		\$44,045.33

## Auto Patrol Maintenance:

## Gasoline:

Bangor Motor Co. . . . .	\$67.86	
Highway Dept. . . . .	223.79	
	<hr/>	\$291.65

## Police Department—Continued

## Repairs:

Bangor Motor Co.....	\$190.29	
Ebbeson, Arvid L.....	64.85	
Hall, Edwin O.....	11.00	
Smith, R. J.....	1.00	
Utterback-Gleason Co., Inc.....	4.50	
Willard Storage Battery Service Station.....	2.50	
	<hr/>	\$274.14

## Supplies:

Bangor Motor Co., Oil and alcohol .	\$25.00
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## Tires:

Bangor Motor Co.....	426.87
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Total Auto Patrol Main- tenance.....	<hr/>	\$1,017.66
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## Equipment and Repairs:

Electric Dept., Repairs to police signals.....	\$192.60	
Evans, D. & Co., Buttons.....	15.12	
Finnegan & Monhghan Clothing Co., Caps.....	162.50	
Phillips, Ambrose, Shoulderstraps..	6.00	
Wood & Bishop Co., Dippers.....	1.75	
Total Equipment and Repairs ...	<hr/>	\$377.97

## Pensions:

Bowen, John C.....	\$482.00	
Davis, Thomas A.....	482.00	
Gilman, L. W.....	73.00	
Jordan, Mrs. F. C.....	120.00	
Perkins, Fred J.....	482.00	
Total Pensions.....	<hr/>	\$1,639.00

## Other Expenses:

Bangor Ice Co., Ice.....	\$92.59
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**Police Department—Continued**

Bangor Publishing Co., Advertising.....	53.76	
Bangor Railway & Electric Co., Police signals.....	29.00	
Bangor Steam Laundry, Laundry ..	20.48	
Bass, J. P., Publishing Co., Advertising.....	14.70	
Burr, T. W. Ptg. & Adv. Co., Paper and printing.....	58.05	
Boyd, J. Herbert, Insurance on patrol.....	31.25	
Cox, James F., M. D., Medical attendance.....	4.00	
Dillingham's, Pens, record books...	16.60	
Dunham-Hanson Co., Sash cord ...	2.25	
Dunning, R. B. & Co., Water bottle.....	2.25	
Emerson, W. S. Co., Roller towels..	11.38	
Golden, Frank J., Trip to Waterville.....	7.33	
Jones, F. L. Co., Crackers.....	62.24	
M. & M. Auto Service of Maine, State auto registration list .....	15.00	
Milliken, H. J., M. D., Medical attendance.....	7.00	
Portland Directory Co., Directory and Maine Register.....	12.00	
New England Tel. & Tel. Co.....	74.18	
Scribner, H. C., M. D., Medical attendance.....	18.00	
Somers, L. W. Co., Insurance on patrol (liability).....	196.00	
Staples & Griffin, Soap, matches, etc.....	1.70	
Sullivan, Dan T., Office supplies ...	6.86	
Taylor, C. J., M. D., Medical attendance.....	5.00	
		<hr/>
Total Other Expenses.....		\$741.62

**Fire Department:**

## Salaries and Wages:

Chief.....	\$1,416.67
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**Fire Department—Continued**

Day Men.....	31,848.00	
Night Men.....	800.00	
Call Men.....	9,076.50	
	<hr/>	
Total Salaries and Wages ...		\$43,141.17

**Horses and Care of Same:****Hay, Straw and Shavings:**

Canty, E., Hay.....	\$61.65	
Charity Dept., Hay.....	215.12	
Goode & Driscoll, Hay.....	102.65	
McNulty, J., Hay.....	783.83	
Mitchell, R. H., Hay.....	174.98	
Moor, Geo. L. & Son, Hay, straw, shavings.....	836.35	
	<hr/>	\$2,174.58

**Grain:**

Eastern Grain Co.,.....	\$369.65	
Hopkins, A. R. Co.....	210.90	
Towle, J. N. & Co.....	363.99	
	<hr/>	\$944.54

**Horse Shoeing:**

Leland & Marley.....	\$211.50	
Smith & Leighton.....	93.00	
Smith & Wiley.....	70.00	
White & Winchester.....	186.75	
	<hr/>	561.25

**Veterinary Surgeon:**

Murch, Alfred L., M. D. V.....	\$29.50	
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**Medicine:**

Murch, Alfred L., M. D. V.....	\$2.00	
Sweet, Caldwell Co.....	18.42	
	<hr/>	\$20.42

## Fire Department—Continued

## Horse Hire:

Green, J. Frank . . . . .	\$67.00	
Peavey Motor Transfer Co. . . . .	25.00	
		<u>\$92.00</u>

## Horses:

Green, J. Frank . . . . .	\$525.00	
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## All Other:

Utterback-Gleason Co., Inc., Salt cakes, repairing harness, etc. . . .	\$35.69	
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Total Horses and Care of Same . . . . .		<u>\$4,382.98</u>
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## Fuel and Light:

Bangor Gas Light Co., Gas . . . . .	\$ 66.66	
Bacon & Robinson Co., Coal . . . . .	1,733.37	
Crossman, W. B., Wood . . . . .	8.00	
Hincks Coal Co., Coal . . . . .	115.23	
Murray, Charles, K. oil . . . . .	39.00	
Stickney & Babcock Coal Co., Coal .	361.05	

	<u>\$2,323.31</u>	
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Credit: Coal . . . . .	15.00	
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Total Fuel and Light . . . . .		<u>\$2,308.31</u>
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## Auto Apparatus Maintenance:

## Gasoline:

Murray, Charles . . . . .	\$152.35	
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## Motor Oil:

Murray, Charles . . . . .	52.38	
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## Repairs:

Bangor Motor Co. . . . .	\$19.75	
Bangor Vulcanizing Co. . . . .	4.65	
Boulter, J. J. & Son . . . . .	2.50	
Bragg, N. H. & Sons . . . . .	1.85	

**Fire Department—Continued**

Dole Co., The. . . . .	2.55	
Ebbeson, Arvid L. . . . .	9.40	
Johnson & Crymble . . . . .	30.00	
Newman, Neil E. Co. . . . .	15.00	
Rice & Miller Co. . . . .	4.08	
Willard Storage Battery Station . . .	2.25	
		\$92.03

**Auto:**

Newman, Neil E. Co. . . . .	\$1,450.00
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Total Auto Apparatus Main-  
tenance. . . . .

\$1,746.76

**Repairs and Renewals of Equipment:****Renewals of Equipment:**

American Railway Express, Ex- press. . . . .	\$3.77
Bangor Window Shade Co., Shades.	24.00
Berry & Smith, Canvas mud guard .	2.50
Blanchard, Arthur H., Water noz- zle. . . . .	35.00
Braidy, David, Coat. . . . .	55.00
Brown & White Co., Brooms and Sponges. . . . .	29.25
Dallman, H. I. Co., Sponges, cham- ois, brooms. . . . .	210.00
Day, H. L. Sons & Co., Mattress . . .	6.50
Dole Co., The, Lamps . . . . .	28.62
Dunham-Hanson Co., Mule pails .	1.70
Emerson, W. S. Co., Pillow cases, sheets. . . . .	12.92
Farrar Furniture Co., Chairs . . . . .	34.00
Foamite Firefoam Co., Chemical recharges. . . . .	7.50
Freese, A. L., Sheets, pillow cases, etc. . . . .	54.16
Hardy, J. M., Coats, pipes, etc. . . . .	305.53
Haynes & Chalmers Co., Saw, sprinkler. . . . .	3.91
Kelley, E. F. & Sons, Hose. . . . .	9.00
Rice & Miller Co., Lawn mower, axes, etc. . . . .	41.07

## Fire Department—Continued

Utterback-Gleason Co., Inc., Whip, sweat collars, etc.....	18.50	
Vose, P. H. Co., Cuspidors, globes, etc.....	6.33	
Wentworth-Forman Co., Inc., Caps	101.03	
	<hr/>	
	\$990.29	
Credit: Hose.....	180.00	
	<hr/>	\$810.29

## Repairs:

American Railway Express Co., Express.....	.60	
Babb, C. H. & Co., Flushing sewer pipe.....	7.16	
Bangor Gas light Co., Repairs to heater.....	4.50	
Bartlett, F. Warren, Repairs to chairs.....	10.00	
Berry & Smith, Repairing flag.....	.50	
Boulter, J. J. & Son, Welding.....	3.50	
Bragg, N. H. & Sons, Hardware, chains, etc.....	10.81	
Byther & Curtis, Repairs.....	32.79	
Cox, James, Painting and varnish- ing wagon.....	48.65	
Dole Co., The, Bulbs, battery.....	4.03	
Dunham-Hanson Co., Lock, hinges, etc.....	2.40	
Dunning, R. B. & Co., Washers....	.34	
Electric Dept., Repairs.....	301.74	
Hardy, J. M., Clamps.....	6.00	
Haynes & Chalmers Co., Spikes, glue.....	2.69	
Heal, L. G., Repairing equipment ..	124.48	
Kelley, E. F. & Sons, Hose, battery, etc.....	12.04	
Rice & Miller Co., Glass, etc.....	5.70	
Union Iron Works, Repairs for truck	2.95	
Utterback-Gleason Co., Inc., Har- ness repaired.....	12.75	
	<hr/>	
	\$593.63	
Credit: Old wheels.....	5.00	
	<hr/>	\$588.63

## Hose:

United States Rubber Co. . . . .	\$950.00
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Total Repairs and Renewals of Equipment. . . . .	
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	<u>\$2,348.92</u>
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## Other Expenses:

American Railway Express Co., Express. . . . .	\$2.84
Bangor Cleaning Co., Sweeping compound. . . . .	4.50
Bangor Steam Laundry, Laundry ..	97.10
Bass, J. P. Pub. Co., Envelopes, letterheads. . . . .	3.60
Citizens Ice Co., Ice. . . . .	38.20
Baker & Hodge Co., Insurance . . . .	33.00
Bright, J. M., Insurance. . . . .	12.00
Byther & Curtis, Repairing door lock. . . . .	3.00
Columbia Towel Supply Co., Tow- els. . . . .	70.65
Curran, Wm. F. Co., Insurance . . . .	35.28
Dole Co., The, Lamps . . . . .	44.41
Dunham-Hanson Co., Sash cord . . . .	3.25
Dunning, R. B. & Co., Brass-Brite, lawn seed, etc. . . . .	13.30
Ellis, M. F. & Co., Paper towels. . . .	12.00
Gallagher, T. F., Soda. . . . .	1.50
Kelley, E. F. & Sons, Plumbing re- pairs. . . . .	7.75
LeBarrows, Eugene, Trip to Con- vention. . . . .	275.00
Getchell Bros., Ice. . . . .	126.15
Maine Central R. R. Co., Freight ..	.77
McClure, J. W. & Son, Insurance. . . .	100.38
New England Tel. & Tel. Co. . . . .	249.08
New Franklin Laundry, Laundry ..	127.55
Palmer, W. W., Insurance. . . . .	3.27
Portland Directory Co., Directory	4.00
Proctor & Gamble Distributing Co., Soap and powder. . . . .	22.99
Snow & Nealley Co., Cotton waste, rope, etc. . . . .	33.02
Sweet, Caldwell Co., Acid. . . . .	56.27
Thurston & Kingsbury Co., Soda. . . .	4.48

Utterback-Gleason Co., Inc., Har- ness soap and blacking. . . . .	2.25	
Vose, P. H. Co., Wicks. . . . .	.30	
Wescott, Geo. I. & Son, Soda, T. paper, etc. . . . .	58.03	
	<hr/>	
Total Other Expenses. . . . .		\$1,445.92

**Militia:**

## Maintenance of Armory:

Atkins, A. G., Painting repairs. . . . .	\$371.10	
Bailey, Taber D. and Herbert J. Banton, Rent. . . . .	269.91	
Derby, G. B. Co., Moving to City Hall. . . . .	68.75	
Hart, Burton, Removing goods from Banquet Hall. . . . .	7.50	
Morse & Co., Lumber. . . . .	312.69	
Morse, F. S., Labor and material. . .	395.76	
	<hr/>	
Total Maintenance of Ar- mory and rent. . . . .		\$1,425.71

**Other Protection of Persons and Property:**

## Sheep Killed by Dogs:

Cort, Fred. . . . .	\$300.00	
Frost, H. I. . . . .	15.00	
Fuller, F. R., . . . . .	30.00	
Sanford, A. G., . . . . .	45.00	
Tozier, Walter. . . . .	48.00	
	<hr/>	
Total Sheep Killed by Dogs .		\$438.00

## Dog Officer:

Goldthwait, John. . . . .	\$100.00	
Pendleton, Henry L. . . . .	5.00	
	<hr/>	
Total Dog Officer. . . . .		\$105.00

## HEALTH AND SANITATION

## Health:

## Full Time Health Officer:

Salary . . . . .	\$1,416.66
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## Vital Statistics:

## Birth Certificates:

Banton, Leon G., M. D. . . . .	\$2.25	
Brett, Victor . . . . .	97.15	
Caulfield, Geo. B., M. D. . . . .	23.00	
Cox, James F., M. D. . . . .	16.75	
Fellows, A. W., M. D. . . . .	3.00	
Ford, Leonard H., M. D. . . . .	2.50	
Herlihy, Edward L., M. D. . . . .	1.25	
Norris, L. F., M. D., . . . . .	.25	
Osgood, H. W., M. D. . . . .	5.50	
Sanger, Eugene B., M. D. . . . .	5.25	
Schrivver, Alfred H., M. D. . . . .	4.50	
Taylor, C. J., M. D. . . . .	3.75	
		<u>\$165.15</u>

## Death Certificates:

Banton, Leon G., M. D. . . . .	\$6.50	
Brett, Victor . . . . .	83.20	
Cox, James F., M. D. . . . .	4.50	
Ford, Leonard H., M. D. . . . .	1.00	
Herlihy, Edward L., M. D. . . . .	3.25	
Norris, L. F., M. D. . . . .	4.25	
Osgood, H. W., M. D. . . . .	2.00	
Sampson, H. W., M. D. . . . .	.50	
Schrivver, Alfred H., M. D. . . . .	1.00	
		<u>\$106.20</u>

## Marriage Certificates:

Brett, Victor . . . . .	74.50	
Morris, Rev. Albert E. . . . .	5.00	
Smith, Rev. Ashley A. . . . .	21.50	
		<u>\$101.00</u>

Total Vital Statistics . . . . .	<u>\$372.35</u>
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## Health—Continued

## General Expenses:

American Railway Express Co., Express.....	\$12.10
Atlantic Express Co., Freight.....	4.73
Bangor Publishing Co., Advertising	7.38
Bangor Vulcanizing Co., Gasoline and oil.....	26.15
Buckley Drug Co., Vaccine and fumigation supplies.....	150.63
Burr, T. W. Ptg. & Adv. Co., Print- ing.....	146.55
Buzzell, Marion D., Clerk.....	71.00
Conners, D. A., Signs.....	12.00
Curtis & Tupper, Antitoxin.....	105.10
Dunham-Hanson Co., Sprayer.....	1.50
Dunning, R. B. & Co., Milk bottles.	.80
East Side Pharmacy, Antitoxin....	157.00
Dolge, C. B. Co., Candles for fumi- gating.....	28.80
Eastern Steamship Lines, Inc. Freight.....	.78
Eimer & Amend, Incubator.....	35.00
Emergency Vulcanizing Co., Gaso- line and oil.....	56.54
Fleming, John F., Groceries.....	11.12
Hennessy, Terese, Clerk.....	27.00
Mahady, E. F. Co., Bandages, drugs	12.94
Neal, A. J.....	3.00
New England Tel. & Tel. Co.....	53.26
Portland Directory Co., Directory	4.00
Quinn, Edward M., Auto for plumbing inspector.....	4.00
Sullivan, Dan T., Typewriter, office supplies.....	58.11
Supply Dept., Stamped envelopes, pencils, etc.....	6.44
Sweet, Caldwell Co., Antitoxin....	34.50
Trainer, W. H. Est., Antitoxin.....	72.00
Vose, P. H. Co., Pitcher, basin.....	3.13
West Disinfecting Co., Wesciforms, westowels.....	74.50
Worrell Mfg. Co.....	7.50
Woodman, J. F. & Co., Coal.....	8.13

Total General Expenses ...

\$1,195.69

**Health—Continued****Plumbing Inspector:**

Salary .....	\$1,056.00
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**Sanitation:****General Administration:**

Salary of Superintendent .....	\$1,000.00
<b>Salaries of Board:</b>	
Fleming, John F. ....	\$50.00
Lovette, Archie R. ....	50.00
Watson, Ira P. ....	50.00
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	\$150.00

**Printing:**

Burr, T. W. Ptg. & Adv. Co. ....	48.00
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Total General Administration .....	\$1,198.00
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**Sewer Maintenance:**

Salaries and Wages .....	\$3,177.57
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**Material and Supplies:**

Crossman, W. B., Wood .....	\$17.50
Dunning, R. B. & Co., Cement. ....	187.70
Morse & Co., Lumber .....	25.07
Standard Oil Co. of N. Y., K. oil ...	15.50
	<hr/>
	\$245.77

**Equipment and Repairs:**

Boulter, J. J. & Son, Welding vise ..	\$3.00
Dunham-Hanson Co., Rubber hose.	8.50
Dunning, R. B. & Co., Pails, lantern globes, etc. ....	11.22
Haynes & Chalmers Co., Shovels, picks, etc. ....	48.16
Self Propelling Nozzle Co., Self pro- pelling nozzle .....	40.29
	<hr/>
	\$111.17

## Sewer Maintenance—Continued

## Sewer Pipe:

Babb, C. H. & Co. . . . .	\$1,656.91	
Dunning, R. B. & Co. . . . .	5.36	
Maine Central R. R. Co., Freight . .	642.56	
		<hr/>
	\$2,304.83	
Credit . . . . .	1,500.00	
		<hr/>
		\$804.83

## Insurance:

Higgins, Leon F., Compensation . . .	\$494.71	
Lord, Henry & Co. . . . .	14.17	
		<hr/>
		\$508.88

## All Other:

Bangor Publishing Co., Advertising	\$24.03	
Bass, J. P. Pub. Co., Advertising . . .	17.64	
Shea, John H., Thawing pipe . . . . .	43.90	
		<hr/>
		\$85.57

Total Sewer Maintenance . . .		<hr/>	\$4,933.79
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## Catch Basin Maintenance:

Salaries and Wages . . . . .	\$6,694.12
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## Material and Supplies:

Bangor Cast Stone Products Co., Sand . . . . .	\$8.60	
Brooks Brick Co., Brick . . . . .	99.75	
Dunham-Hanson Co., Nails . . . . .	.77	
Farrington, D. C., Sand . . . . .	2.50	
Penobscot Foundry Co., Gratings .	65.07	
Standard Oil Co., of N. Y., Gaso- line, K. oil . . . . .	52.40	
Union Iron Works, Grate . . . . .	14.60	
		<hr/>
		\$243.69

## Repairs:

Bragg, N. H. & Sons, Wheels . . . . .	\$75.20
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**Catch Basin Maintenance—Continued**

Dunham-Hanson Co., Paint.....	.95	
Park Garage Co., Repairs on gaso- line pump and engine.....	39.98	
Reid, Geo. W.,.....	18.94	
Shannon, M., Repairing carts.....	33.18	
Snow & Nealley Co., Material for repairs.....	17.00	
Waldo Bros. & Co., Repairs for pumping engine.....	5.36	
	<hr/>	\$190.61

**Rubber Boots and Coats:**

Arnold, J. M. Shoe Co., Boots.....	42.04	
Curran & Griffin Clothing Co., Coats.....	78.00	
Waterman, J. Co., Hats.....	6.00	
	<hr/>	\$126.04

**Equipment:**

Dunham-Hanson Co., Shovels, saw.	\$11.88	
Dunning, R. B. & Co., Pails.....	1.20	
Maine Central R. R. Co., Freight on pails.....	.99	
Mulvaney Bros., Rope.....	3.35	
Snow & Nealley Co., Rope.....	.84	
Union Iron Works, Iron blocks....	8.46	
Waldo Bros. & Bond Co., Pails....	18.00	
	<hr/>	\$44.72

**All Other:**

Dunham-Hanson Co., Axle grease..	\$3.75	
Snow & Nealley Co., Axle grease, oil	13.95	
	<hr/>	\$17.70

Total Catch Basin Mainte-  
nance.....

\$7,316.88

**Refuse and Garbage Removal:**

Salaries and Wages.....	\$2,336.61
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**Refuse and Garbage Removal—Continued**

Babcock, J. H., Removing garbage—contract.....	1,474.74
	<hr/>
Total Refuse and Garbage Removal.....	\$3,811.35

**Street Cleaning:**

Salaries and Wages.....	\$10,053.21
Bangor Publishing Co., Advertising.....	5.92
Bass, J. P. Pub. Co., Advertising... ..	6.00
Dunning, R. B. & Co., Brooms.....	.37
Indianapolis Brush & Broom Mfg. Co., Push brooms.....	23.29
Kirstein, Louis & Sons, Compensation insurance.....	338.58
Maine Central R. R. Co., Storage on brushes.....	.50
New England Broom & Supply Co., Push brooms.....	39.00
	<hr/>
Total Street Cleaning .....	\$10,466.87

**HIGHWAYS AND BRIDGES****Highways:****General Administration:**

Salary of Clerk.....	\$1,102.00
Salary of Street Commissioner.....	1,416.67
Kirstein, Louis & Sons, Compensation insurance.....	1.42
Sullivan, Dan T., Office supplies....	6.83
Supply Dept., Stamped envelopes, bill-heads, etc.....	11.32
	<hr/>
Total General Administration.....	\$2,538.24

**General Highway Expenditures:**

Salaries and Wages.....	\$37,312.97
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## General Highway Expenditures—Continued

## Material:

Babcock, J. H., Gravel . . . . .	\$36.50	
Bangor Cast Stone Products Co., Pea stone . . . . .	475.95	
Bangor Railway & Electric Co., Gravel . . . . .	561.60	
Barrett Co., The, Tarvia, pitch, etc.	389.78	
Berger Mfg. Co., of Mass., The, Cul- vert . . . . .	327.51	
Bickford, Albert, Gravel . . . . .	8.40	
Carey, The Philip Co., Expansion joint . . . . .	512.87	
Conant, C. M. Co., Culvert . . . . .	37.44	
Day, H. A., Gravel . . . . .	14.70	
Eastern Steamship Lines, Inc., Freight . . . . .	68.28	
Fairfield, Town of, Expansion joint.	24.26	
Farrington, D. C., Sand . . . . .	4.75	
Fogg, Arthur B., Gravel . . . . .	101.25	
Gilman, H. H., Gravel . . . . .	2.00	
Good Roads Machinery Co., Cul- vert . . . . .	115.20	
Graham, Harold, Gravel . . . . .	185.00	
Johnson, Lewis, Gravel . . . . .	105.00	
Maine Central R. R. Co., Freight and storage . . . . .	53.94	
Morse & Co., Lumber . . . . .	483.90	
Spencer, L., Gravel . . . . .	139.25	
	<hr/>	
	\$3,647.58	
Credit: Gravel, cement, etc.	2,809.77	
	<hr/>	\$837.81

## Supplies:

Bacon & Robinson Co., Coal . . . . .	\$110.83
Brown & White Co., Sponges . . . . .	11.10
Crossman, W. B., Wood . . . . .	57.00
Eastern Steamship Lines, Inc. Freight . . . . .	7.80
Haynes & Chalmers Co., Dynamite, fuse . . . . .	40.48
Hincks Coal Co., Coal . . . . .	297.23
Jones, F. S. & Co., Matches . . . . .	1.75

## General Highway Expenditures—Continued

McLean-Jones Oil & Supply Co., Axle grease . . . . .	24.80	
Northern Paint Co., Brushes . . . . .	4.54	
Parkhurst, J. F. & Son Co., Roto salt, sponges, etc. . . . .	20.75	
Snow & Nealley Co., Oil, dressing, etc. . . . .	37.03	
Standard Oil Co., of N. Y., K. oil . . .	54.00	
Stickney & Babcock Coal Co., Coal . .	258.64	
Towle, J. N. & Co., Salt . . . . .	9.20	
Union Iron Works, Tube cleaner . . .	1.08	
Utterback-Gleason Co., Inc. Roto salt, sponges . . . . .	17.45	
		<hr/>
	\$953.68	
Credit: Cyl. oil . . . . .	1.60	
		<hr/>
		\$952.08

## Veterinary Surgeon and Medicine:

Curtis & Tupper, Medicine . . . . .	\$33.98	
Dunning, R. B. & Co., Heave cure . .	1.30	
Dwinal, C. F., D. V. S., Veterinary . .	12.00	
Merrill Drug Co., The, Absorbent . .	5.00	
Murch, Alfred L., M. D. V., Veterin- ary . . . . .	72.45	
Sweet, Caldwell Co., Medicine . . . . .	15.90	
Utterback-Gleason Co., Inc., Shoe boil rolls . . . . .	4.50	
		<hr/>
		\$145.13

## Surburban Agents:

Babcock, J. H. . . . .	\$560.00
Blaisdell, H. P. . . . .	95.25
Chandler, A. J. . . . .	44.91
Colburn, E. J. . . . .	94.25
Cousins, Fred M. . . . .	123.50
Farnham, Geo. A. . . . .	16.25
Frost, H. I. . . . .	249.25
Fuller, F. R. . . . .	55.78
Hathorn, Guy E. . . . .	45.50
Lowell, P. L. . . . .	52.00
Morrison, A. D. . . . .	133.25

## General Highway Expenditures—Continued

Pay Roll . . . . .	6,893.25	
Scripture, Lloyd . . . . .	16.25	
	<hr/>	\$8,379.44

## Grain, Hay and Straw:

Applebey, C. F., Straw . . . . .	\$13.64
Bangor Farmers' Union, Grain . . . . .	708.00
Bell, Ruel, Hay . . . . .	322.28
Brooks, Ervin R., Shavings . . . . .	9.00
Carroll, W. L., Hay . . . . .	72.71
Charity Dept., Hay . . . . .	1,220.82
Cogle, Fred W., Straw and hay . . . . .	211.84
Durgain, Curtis & Son, Straw and hay . . . . .	235.00
Eastern Grain Co., Grain . . . . .	751.47
Fowler, M. H., Hay . . . . .	30.42
Frost, H. I., Straw . . . . .	55.41
Garland, Clarence, Hay . . . . .	440.97
Hopkins, A. R. Co., Grain . . . . .	390.00
Jennison, W. A., Grain . . . . .	637.50
Maine Central R. R. Co., Freight on stock food . . . . .	.76
Maine Farmers' Supply Co., Stock food . . . . .	15.00
Mitchell, R. H., Hay . . . . .	987.99
Moor, Geo. L. & Son, Straw, shav- ings . . . . .	58.13
Mudgett, Herbert, Straw . . . . .	27.20
Richardson, Albert, Straw . . . . .	12.97
Snow, E. T., Straw, hay . . . . .	216.99
Spencer & Adams, Sawdust . . . . .	7.00
Staples & Griffin, Hay . . . . .	376.95
Towle, J. N. & Co., Grain . . . . .	720.50
Webster, John P., Hay . . . . .	94.55

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 \$7,617.10

Credit: Use of teams . . . . .

1,492.38

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 \$6,124.72

## Equipment, Renewals and Repairs:

American Railway Express Co., Express . . . . .	\$3.61
Atkins Bros. & Co., Paint and oil . . . . .	13.95



## General Highway Expenditures—Continued

Austin-Western Road Machinery Co., The, Repairs for grader . . . . .	90.15
Bangor Battery & Service Co., Repair parts . . . . .	17.67
Bangor Broom Co., Broom . . . . .	5.25
Bangor Motor Co., Auto repairs . . . . .	295.64
Bangor Vulcanizing Co., Auto repairs . . . . .	38.15
Berry & Smith, Repairing feed baskets . . . . .	1.50
Boulter, J. J. & Son, Welding . . . . .	60.50
Bragg, N. H. & Sons, Material for repairs . . . . .	579.78
Buffalo Steam Roller Co., Packing, safety valve . . . . .	12.78
Byther & Curtis, Repairs . . . . .	26.13
Carter, A. J., Filing saws . . . . .	3.90
Carter, Ralph E. & Co., Repairing radiator, soldering tank . . . . .	4.25
Clydesvale Steel Co., The, Steel . . . . .	148.09
Conant, C. M. Co., Repairs for road machine . . . . .	49.24
Crosby, S. L. Co., Cable . . . . .	1.00
Cutter, Leslie W., Repairs . . . . .	16.35
Dole Co., The, Coils, plugs . . . . .	15.98
Dunham-Hanson Co., Material for repairs . . . . .	13.89
Dunning, R. B. & Co., Shovels, rakes, etc. . . . .	194.18
Dyar Supply Co., Push brooms . . . . .	25.00
Eastern Motor Corp., Repairs on sprinkler . . . . .	.65
Ebbeson, Arvid L., Auto repairs . . . . .	13.64
Harvey Hardware Co., Material for repairs . . . . .	6.73
Haynes & Chalmers Co., Material for repairs . . . . .	128.80
Johnson & Crymble, Repairs to tractor . . . . .	2.50
Kelly-Springfield Motor Truck Co., Repairs for trucks . . . . .	130.84
Kendall-Winch Co., Sharpening shears, etc. . . . .	1.00
Lawson, Oscar W., Auto repairs . . . . .	272.88

## General Highway Expenditures—Continued

Lewis, H. R. & Co., Repairing sprinkler pipes . . . . .	3.57	
Lynch, M. & Co., Fitting keys . . . . .	.70	
Maine Central R. R. Co., Freight . .	11.82	
McKim, R. B. Co., Brazing saws . . .	3.25	
McLaughlin's Garage, Auto re- pairs . . . . .	8.11	
New England Road Machinery Co., Rubber hose and blades . . . . .	57.80	
Northern Paint Co., Paint and sand- paper . . . . .	15.04	
Parkhurst, J. F. & Son Co., Whips, collars, etc. . . . .	43.75	
Rice & Miller Co., Rakes, nails, etc. . . . .	132.48	
Ryan, Frank, Harness repaired and renewals . . . . .	251.00	
Simmons, H. J., Auto repairs . . . . .	5.50	
Smith, R. J., Horse blankets, etc. . . .	62.40	
Smith & West, Electrical repairs . . .	5.50	
Snow & Nealley Co., Paint, ash poles, etc. . . . .	19.50	
Strout's Garage, Auto repairs . . . . .	43.94	
Terrill, D. D., Saw . . . . .	1.00	
Thompson Implement & Seed Co., Handles . . . . .	3.10	
Union Iron Works, Repairing sprinkler . . . . .	8.09	
Utterback-Gleason Co., Inc., Rivets, springs . . . . .	1.45	
		<hr/>
	\$2,852.53	
Credit: Use of paver, trucks, etc. . . . .	552.45	
		<hr/>
		\$2,300.08

## Horse Shoeing:

Bragg, N. H. & Sons, Calks, bolts . .	\$53.50
Grant, Asa T. . . . .	322.00
Grant & Hurlburt . . . . .	41.75
Leland & Marley . . . . .	441.75
Smith & Leighton . . . . .	96.75
Smith & Wiley . . . . .	133.90

## General Highway Expenditures—Continued

White & Winchester . . . . .	233.25	
	<u>          </u>	\$1,323.00

## Insurance:

Baker & Hodge Co. . . . .	\$168.30	
Blake, Barrows & Brown, Inc. . . . .	18.50	
Byrnes, P. J. . . . .	71.45	
Curran, Wm. F. Co. . . . .	91.60	
Freeland, Geo. B. . . . .	188.00	
Kirstein, Louis & Sons. . . . .	483.49	
Lord, Henry & Co. . . . .	18.50	
Meineche, F. H. . . . .	140.00	
Somers, L. W. Co. . . . .	11.10	
Stewart, Chas. M. . . . .	22.20	
Tyler, L. C. & Sons Co., Inc. . . . .	100.20	
	<u>          </u>	\$1,313.34

## Gasoline and Supplies for Autos:

Bangor Vulcanizing Co., Gasoline . . . . .	\$1.50	
Bragg, N. H. & Sons, Mobiloil . . . . .	13.00	
Citizens Ice Co., Ice . . . . .	9.30	
East Side Garage, Gasoline . . . . .	1.40	
Gulf Refining Co., Gasoline, oil . . . . .	663.76	
Murray, Charles, Gasoline . . . . .	584.60	
Robinson, Wm. C. & Son Co., Antoline . . . . .	96.70	
Snow & Nealley Co., Alcohol . . . . .	4.00	
Standard Oil Co., of N. Y., Gasoline . . . . .	81.00	
	<u>          </u>	\$1,455.26
Credit: Gasoline and oil . . . . .	248.14	
	<u>          </u>	\$1,207.12

## Horses:

Hughes, Murtagh. . . . .	\$500.00	
Mitchell, F. W. . . . .	750.00	
	<u>          </u>	\$1,250.00

## Use of Horses:

Columbia Mountain Lumber Co. . . . .	174.66	
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**General Highway Expenditures—Continued**

## Replacement of Equipment:

Austin Western Road Machinery Co., Grader . . . . .	\$450.00	
Crosby, The S. L. Co., Runabout. . .	388.50	
Maine Central R. R. Co., Freight on grader. . . . .	18.50	
	<hr/>	\$857.00

Re-Cutting and Re-Dressing Granite  
Paving Blocks:

Toon, George . . . . .	\$608.00
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## Main Street Patching:

Casey, Francis T. . . . .	\$94.50
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## Patrolling Road:

State of Maine . . . . .	\$120.00
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## Rubber Coats:

Adams Furnishing Goods Co. . . . .	\$161.25
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## Fence:

Bangor Railway & Electric Co. . . . .	\$83.73
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## All Other:

Brooks, Ervin R., Shavings . . . . .	\$3.50
Burroughs Adding Machine Co., Repairs to machine . . . . .	11.70
Byther & Curtis, Labor on keys . . .	1.50
Citizens Ice Co., Ice . . . . .	33.60
Coates, Geo. A., Repairing culvert	3.00
Columbia Towel Supply Co., Tow- els . . . . .	13.50
Connors Printing Co., Printing tags and daily returns . . . . .	48.75
Dole Co., The, Lamps . . . . .	8.13
Dunham-Hanson Co., Gloves . . . . .	1.00
Dunning, R. B. & Co., Agr. lime, watering pot . . . . .	4.74
Dyer & Rounds, Thawing pipes . . .	2.25

**General Highway Expenditures—Continued**

Electric Dept., Lamps.....	9.96
Freese, A. L., Coat.....	25.00
Gatchell, E. L., Repairs to fence, steps.....	42.88
Haskell, A. B. Co., Shavings.....	1.50
Jones, F. S. & Co., Matches, etc. ...	2.10
Merrill, A. F. Co., Inc., Sawdust....	15.00
Moor, Geo. L. & Son, Shavings ...	8.40
Murray, Thomas, Cutting roots of tree.....	9.00
New England Tel. & Tel. Co.....	79.04
Portland Directory Co., Directory, Maine Register.....	8.00
Rice & Miller Co., Signal.....	1.88
Spencer & Adams, Sawdust.....	3.00
State of Maine, Auto licenses.....	8.00
Sullivan, Dan T., Ink, rubber bands	2.45
Sweet, Caldwell Co., Sanitary fluid	2.50
	<hr/>
	\$350.38

Total General Expenses ...	\$63,595.21
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**Repairs and Maintenance of Sidewalks and Curbing:**

Salaries and Wages.....	\$1,205.83
Bangor Cast Stone Products Co., Sand.....	6.00
Brooks Brick Co., Tile.....	8.50
Casey, Francis T., Repairing side- walks.....	1,651.15
Eastern Cement Co., Cement.....	64.87
Queen City Granite Co., Pointing sidewalk.....	22.50
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Total Repairs and Main- tenance Sidewalks and Curbing.....	\$2,958.85
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**Snow and Ice Removal:**

Salaries and Wages.....	\$3,977.45
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**Suburban Agents:**

Babcock, J. H.....	\$13.50
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Blaisdell, H. P.....	6.50	
Morrison, A. D.....	13.00	
		<u>\$33.00</u>
Compensation Insurance:		
Kirstein, Louis & Sons.....		\$277.02
		<u>\$4,287.47</u>
Total Snow and Ice Removal		
<b>Sprinkling:</b>		
Salaries and Wages—Water.....		\$11,492.96
Salaries and Wages— Oil.....		1,099.35
Supplies—Oil:		
Stickney & Babcock Coal Co., Coal.		16.45
Oil:		
Semet-Solvay Co., Calcium chloride .	\$481.60	
Standard Oil Co., of N. Y., Oil and application.....	3,864.51	
Maine Central R. R. Co., Freight...	158.47	
		<u>\$4,504.58</u>
Maintenance of Teams—Oil, High- way Dept.....		\$317.00
Compensation Insurance:		
Kirstein, Louis & Sons.....		52.28
		<u>\$17,482.62</u>
Total Sprinkling.....		
<b>Bridges:</b>		
Repairs and Maintenance:		
Bangor and Brewer Bridge:		
Clewley, Lewis E., Repairs to lad- der .....	\$3.00	
Connor Coal & Wood Co., Coal....	19.95	
Crossman, W. B., Wood.....	16.00	
Cushman Lumber Co., Boards.....	.60	

## Bridges—Continued

Dunham-Hanson Co., Brushes, dusters.....	4.50	
Dunning, R. B. & Co., Brushes, paint.....	57.32	
Electric Dept., Cost of maintaining lights on bridge.....	250.00	
Finnegan & Monaghan Co., Officer's cap.....	4.50	
Haynes & Chalmers Co., Brushes, paint, etc.....	23.51	
Lewis, H. R. & Co., Pipe, collar . . .	6.20	
Maine Central R. R. Co., Freight on paint and protection of bridge during painting.....	22.88	
Morse & Co., Lumber.....	23.35	
Northern Paint Co., Oil, turp, cans	115.59	
Noyes & Nutter Mfg. Co., Milk cans.....	2.26	
Pay Roll.....	3,869.88	
Snow & Nealley Co., Rope, blocks..	10.98	
Tropical Paint & Oil Co., Paint . . . .	388.05	
Union Iron Works, Making hooks .	11.03	
	<hr/>	
	\$4,829.60	
Credit: Graphite paint.....	4.50	
	<hr/>	\$4,825.10

## Merrill's Mills Bridge:

Bangor Railway & Electric Co., Freight.....	.52	
Bragg, N. H. & Sons, Washers.....	1.50	
Morse & Co., Lumber.....	65.95	
Pay Roll.....	148.51	
	<hr/>	\$216.48

## Pushaw Road Bridge:

Bragg, N. H. & Sons, Steel.....	\$4.63	
Davies, S. A., Lumber.....	270.00	
Haynes & Chalmers Co., Nails.....	1.58	
Morse & Co., Lumber.....	20.38	
Pay Roll.....	472.38	
	<hr/>	\$768.97

**Bridges—Continued**

## Morse's Mills Bridge:

Curran, W. F. Co., Insurance . . . . .	\$84.00	
Dunham-Hanson Co., Nails . . . . .	4.30	
Freeland, Geo. B., Insurance . . . . .	42.00	
Morse & Co., Lumber . . . . .	281.37	
Pay Roll . . . . .	132.13	
Pearl & Dennett Co., Insurance . . . . .	84.00	
Somers, L. W. Co., Insurance . . . . .	84.00	
		<hr/>
	\$711.80	
Credit: Replanking floor of bridge. (B. R. & E. Co.)..	39.34	
		<hr/>
		\$672.46

## Salt Mills Bridge:

Blake, Barrows & Brown, Inc., In- surance . . . . .	\$84.00	
Eastern Cement Co., Cement . . . . .	17.10	
Farrington, D. C., Sand . . . . .	2.75	
Freeland, Geo. B., Insurance . . . . .	84.00	
Lord, Henry & Co., Insurance . . . . .	42.00	
Morse & Co., Lumber . . . . .	138.49	
Pay Roll . . . . .	155.82	
Somers, L. W. Co., Insurance . . . . .	84.00	
Union Iron Works, Steel rod and labor . . . . .	13.33	
		<hr/>
	\$621.49	
Credit: Replanking floor of bridge. (B. R. & E. Co.)..	21.42	
		<hr/>
		\$600.07

## Hogan Road Bridge:

Acme Mfg. Co., Fermo . . . . .	\$13.00
Bangor Cast Stone Products Co., Gravel . . . . .	56.00
Bragg, N. H. & Sons, Shovels, picks, etc. . . . .	43.45
Brooks, Ervin R., Shavings . . . . .	.50
Dunham-Hanson Co., Lantern globes, oil, nails . . . . .	8.76
Eastern Cement Co., Cement . . . . .	245.96



## Bridges—Continued

Eastern Steamship Lines, Freight . .	10.62	
Electric Dept., Dry cells . . . . .	1.98	
Haynes & Chalmers Co., Pails, oil, can . . . . .	3.92	
McPherson & Barrows, Mason re- pairs . . . . .	8.50	
Morse & Co., Lumber . . . . .	209.56	
Murphy, R. S., Use of cement mixer	20.00	
Pay Roll . . . . .	1,121.77	
Sawyer Boot & Shoe Co., Rubber boots . . . . .	4.75	
Strout's Garage, Repairs on cement mixer . . . . .	27.83	
Union Iron Works, Beams, chan- nels, railing . . . . .	169.29	
	<hr/>	\$1,945.89

## Union Street Bridge:

Bangor Cast Stone Products Co., Gravel, sand . . . . .	\$95.20	
Bragg, N. H. & Sons, Steel . . . . .	31.86	
Dunham-Hanson Co., Nails and oil .	4.55	
Eastern Cement Co., Cement . . . . .	85.72	
Morse & Co., Lumber . . . . .	19.00	
Pay Roll . . . . .	881.42	
	<hr/>	\$1,117.75

## Maine Central R. R. Walk:

Bangor Cast Stone Products Co., Gravel . . . . .	\$3.90	
Barrett Co., The, Coal tar . . . . .	7.00	
Bragg, N. H. & Sons, Steel, bolts . .	20.36	
Burr, T. W. Ptg. & Adv. Co., Print- ing placards . . . . .	10.05	
Dunham-Hanson Co., Brush . . . . .	2.00	
Casey, Francis T. . . . .	29.99	
Dunning, R. B. & Co., Brush, paint .	25.53	
Eastern Cement Co., Cement . . . . .	19.75	
Farrington, D. C., Sand . . . . .	5.25	
Haynes & Chalmers Co., Paint, oil, etc. . . . .	83.58	
Morse & Co., Lumber . . . . .	1,046.46	
Pay Roll . . . . .	585.93	
	<hr/>	\$1,839.80

## Bridges—Continued

## Finson Road Bridge:

Pay Roll . . . . .	\$2.25
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## Red Bridge:

Pay Roll . . . . .	\$ .75
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## Mt. Hope Avenue Bridge:

Pay Roll . . . . .	\$1.87
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## Central Street Bridge:

American Railway Express Co., Ex- press . . . . .	\$2.10
Bangor Cast Stone Products Co., Gravel . . . . .	45.90
Bangor Railway & Electric Co., Paint and use of tractor . . . . .	43.00
Barrett Co., The, Wood block pav- ing pitch . . . . .	49.27
Bragg, N. H. & Sons, Hardware . . . .	11.74
Casey, Francis T., Cement walk . .	382.68
Cutter, Leslie W., Mill work . . . . .	2.25
Dunham-Hanson Co., Nails . . . . .	.75
Eames, Emma, Damage to silk dress torn on fencing . . . . .	20.00
Eastern Cement Co., Cement . . . . .	228.45
Farrington, D. C., Gravel . . . . .	34.75
Fitz Bros. Co., Welding . . . . .	5.00
Goodwin, Geo. B., Use of scow . . . . .	2.50
Haynes & Chalmers Co., Nails, cod line, etc. . . . .	27.03
McPherson & Barrows, Mason re- pairs . . . . .	63.50
Morse & Co., Lumber . . . . .	98.64
Pay Roll . . . . .	1,783.60
Penobscot Foundry Co., Castings . .	79.50
Union Iron Works, Repairs on fence	23.67

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\$2,904.33

Credit: Red lead and machine  
bolts . . . . .

49.78

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\$2,854.55

**Bridges—Continued**

## Kenduskeag Bridge:

Eastern Cement Co., Cement . . . . .	\$14.24	
Farrington, D. C., Sand . . . . .	3.75	
Goodwin, Geo. B., Use of scow . . . . .	6.50	
McPherson & Barrows, Mason repairs . . . . .	223.00	
Pay Roll . . . . .	101.50	
	<hr/>	\$348.99

## Essex Street Bridge:

Pay Roll . . . . .		\$25.00
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## Franklin Street Bridge:

Dunham-Hanson Co., Oil, putty . . . . .	\$2.11	
Eastern Cement Co., Cement . . . . .	7.12	
Farrington, D. C., Sand . . . . .	2.25	
Goodwin, Geo. B., Use of scow . . . . .	6.00	
McPherson & Barrows, Mason repairs . . . . .	110.45	
Pay Roll . . . . .	38.00	
Snow & Nealley Co., Rope . . . . .	6.05	
	<hr/>	\$171.98

## General:

Barrett Co., The, Wood block paving pitch . . . . .	\$49.26
Berry & Smith, Waterproof covers	28.50
Bragg, N. H. & Sons, Tools and hardware . . . . .	12.68
Burr, T. W. Ptg. & Adv. Co., Blanks	9.05
Dunham-Hanson Co., Tools, gloves, etc. . . . .	22.52
Dunning, R. B. & Co., Shovels, barrows . . . . .	23.13
Engineering News Record, Subscription to magazine . . . . .	5.00
Haynes & Chalmers Co., Tools . . . . .	74.11
Kirstein, Louis & Sons, Compensation insurance . . . . .	199.83
Morse & Co., Lumber . . . . .	35.25
Pay Roll . . . . .	208.70

**Bridges—Continued**

Sawyer Boot & Shoe Co., Rubber boots . . . . .	9.50	
Schwartz, M. Co., Lumber leads . . .	.75	
Snow & Nealley Co., Snatch blocks and ganging . . . . .	7.70	
		<u>\$685.98</u>
Total Bridges . . . . .		\$16,077.89

**CHARITIES****Charities:**

## General Administration:

Salaries—Overseers of the Poor . . . .	\$1,131.93
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## Expenses:

New England Tel. & Tel. Co. . . . .	\$12.34
Overseers of the Poor, Stamps . . . .	5.00
Portland Directory Co., Directory and Maine Register . . . . .	8.00
Sullivan, Dan T., Book, ink, pencils, etc. . . . .	8.44
Supply Dept., Bill heads, blanks, etc. . . . .	3.90
	<u>\$37.68</u>

Total General Administration . . . . .	\$1,169.61
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**Almshouse:**

Salaries and Wages . . . . .	\$7,363.07
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**Provisions:**

Armour & Co. . . . .	\$49.31
Bangor Dairy Co. . . . .	23.76
Blanchard, C. G. . . . .	5.00
Cassidy, John Co. . . . .	20.66
Central Fish & Produce Co. . . . .	57.68
Eastern Steamship Lines, Inc. . . . .	1.54

## Almshouse—Continued

Fickett, Oscar A. Co.....	241.06	
Fleischmann Co., The.....	17.66	
Gallagher Bros.....	3.84	
Gallagher, T. F.....	6.00	
Grant, R. N. & Co.....	23.40	
Grocers Baking Co.....	4.00	
Haley, E. A.....	5.20	
Hayward, Chas. & Co.....	1,412.53	
Higgins, W. F.....	73.31	
Jones, Alfred Sons.....	99.97	
Jones, F. L. Co.....	63.80	
Kimball, Wm.....	16.32	
Littlefield & Bartlett.....	68.81	
Morris & Co.....	139.58	
Murray Bros. Co.....	24.00	
Murray, Louis Co.....	149.78	
Pickering Square Market.....	139.81	
Sea Products Co.....	42.50	
Staples & Griffin.....	335.73	
Swift & Co.....	1,062.52	
Thurston & Kingsbury Co.....	47.16	
Weiler, G. Earle.....	20.10	
Wescott, Geo. I. & Son.....	3.00	
Wilson & Co.....	155.76	
		\$4,313.89

## Fuel:

Bacon & Robinson Co., Coal.....	\$31.36	
Hincks Coal Co., Coal.....	44.08	
Pierce, I. M. & Co., Wood.....	688.00	
		\$763.44

## Dry Goods and Clothing:

Clark, John T. & Co.....	\$59.35
Adams Furnishing Goods Co.....	247.85
Finnegan & Monaghan Clothing Co.....	52.50
Freese, A. L.....	334.02
Hale, C. B. & Co.....	1.80
Largay, W. J. Co.....	101.00
New York Syndicate.....	176.80
Star Store, The.....	10.73

## Almshouse—Continued

Waterman, J. Co.....	15.00	
	<hr/>	\$999.05

## Grain and Feed:

Bangor Farmers' Union.....	\$954.60	
Eastern Grain Co.....	78.90	
Hopkins, A. R. Co.....	4.65	
Maine Central R. R. Co.....	.51	
	<hr/>	\$1,038.66

## Hospital Supplies and Medicine:

Annis, Maude, Special nurse.....	\$190.00	
Buckley Drug Co., Medicine.....	166.07	
East Side Pharmacy, Medicine...	14.25	
Eastern Maine General Hospital, X-Ray treatment.....	5.00	
Fowler Drug Co., Medicine.....	2.53	
Hogan & Callan, Mattresses, bed springs.....	176.00	
Schriver, A. H., M. D., Physician..	48.00	
Smith, A. K. P., M. D., Physician consultation.....	5.00	
Sweet, Caldwell Co., Medicine.....	513.96	
	<hr/>	\$1,120.81

## Boots and Shoes:

Brockton Shoe Co.....	\$15.17	
Connors, John Shoe Co.....	49.36	
Modern Repairing & Shoe Co.....	1.75	
New York Syndicate.....	12.79	
Palmer Shoe Mfg. & Repg. Co.....	3.75	
	<hr/>	\$82.82

## Veterinary and Horse Shoeing:

Cuddy, Thomas E., Shoeing.....	\$11.75	
Grant, Asa T., Shoeing.....	95.25	
Grant & Hurlburt, Shoeing.....	21.50	
Leland & Marley, Shoeing.....	81.75	
Murch, Alfred L., M. D., Veterin- ary.....	2.00	
	<hr/>	\$212.25

## Almshouse—Continued

## Tobacco and Pipes:

Hayward, Chas. & Co. ....	\$6.87	
Liggett & Myers Tobacco Co. ....	14.00	
Savage, L. W. ....	409.05	
		\$429.92

## Household Utensils and Supplies:

Armour & Co., Soap. ....	\$58.06	
Bangor Ice Co., Ice. ....	58.50	
Brown & White Co., Brooms. ....	13.50	
Cullinan, C. H., Range. ....	85.00	
Dunham-Hanson Co., Cleaneasy. . .	18.25	
Dunning, R. B. & Co., Pails, mops, etc. ....	20.61	
Haley, E. A., Soap, washing powder	4.77	
Harvey Hardware Co., Clock, meat grinder. ....	6.98	
Hayward, Chas. & Co., Soap, wash- ing powder, bluing, etc. ....	95.68	
Lyon, C. A. & Co., Curtains, rods. . .	34.05	
Maine Central R. R. Co., Storage on soap. ....	2.45	
McAvey, C. E., Exchange of re- frigerators. ....	10.00	
McFarland, Elmer E., Range. ....	25.00	
Noyes & Nutter Mfg. Co., Pans, hods, etc. ....	14.20	
Proctor & Gamble, Distributing Co., Soap, soap powder. ....	172.91	
Savage, L. W., Matches. ....	19.10	
Singer Sewing Machine Co., Need- les. ....	.40	
Staples & Griffin, Soap, soap pow- der, matches. ....	13.11	
Swift & Co., Soap powder. ....	6.56	
Thurston & Kingsbury Co., Clean- ser. ....	4.75	
Vose, P. H. Co., Dishes. ....	119.33	
Wood & Bishop Co., Bake pans. . . .	.73	
		\$783.84

## Material and Repairs:

Ayer, John D., Repairing tractor. . . .	\$5.15
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## Almshouse—Continued

Bangor Cast Stone Products Co., Window cap . . . . .	3.00	
Bangor Harness Co., Repairing harness . . . . .	7.35	
Barker Lumber & Box Co., Lum- ber . . . . .	128.38	
Beal, B. H. Post No. 12, Second- hand furnace and lavatory . . . . .	30.00	
Bragg, N. H. & Sons, Hardware . . . .	18.74	
Conant, C. M. Co., Repairs on farm- ing tools . . . . .	105.34	
Cuddy, Thomas E., Repairs to carts, sled . . . . .	134.64	
Dunham-Hanson Co., Material for repairs . . . . .	207.59	
Dunning, R. B. & Co., Material for repairs . . . . .	53.02	
Electric Dept., Heater and lamps . .	71.34	
Hathaway, Guy M., Lamps . . . . .	4.00	
Haynes & Chalmers Co., Nails . . . .	.66	
Keenan, Andrew S., Material for re- pairs . . . . .	4.75	
Kendall-Winch Co., Sharpening lawn mowers . . . . .	3.25	
Kenney, N. A., Material for repairs .	64.00	
Lewis, H. R. & Co., Chimney, Thimble and cover . . . . .	.49	
McPherson & Barrows, Repairs on boiler, etc. . . . .	225.93	
Morse & Co., Lumber, nails . . . . .	68.96	
Ryan, Frank, Repairing harness . . .	7.50	
Strout, A. A., Repairs to wagon . . .	58.50	
Thompson Implement & Seed Co., Repair parts for farming tools . .	18.45	
Union Iron Works, Repairs for boiler . . . . .	52.54	
		<hr/> \$1,273.58

## Insurance:

Boyd, J. Herbert . . . . .	\$17.40	
Freeland, Geo. B. . . . .	49.08	
Lord, Henry & Co. . . . .	63.06	
		<hr/> \$129.54



**Almshouse—Continued**

## Seed and Fertilizer:

Dunning, Herbert A., Seed . . . . .	\$31.35	
Dunning, R. B. & Co., Seed and fertilizer . . . . .	256.32	
Durgain, Curtis & Son, Seed potatoes . . . . .	60.00	
Morison Bros., Fertilizer . . . . .	181.19	
Seavey, G. S. & Son, Seed . . . . .	86.44	
	<hr/>	\$615.30

## Stock:

Bloom, M., Exchange between cows	30.00	
Green, J. Frank, Exchange between horses . . . . .	175.00	
	<hr/>	\$205.00

## Equipment:

Conant, C. M. Co., Horse rake . . . . .	\$42.00	
Dunham-Hanson Co., Tools . . . . .	31.83	
Dunning, R. B. & Co., Tools . . . . .	11.42	
Eastern Steamship Lines, Inc., Freight . . . . .	.97	
Nation Traders Co., Pails and baskets . . . . .	18.00	
Parkhurst, J. F. & Son Co., Harness renewals . . . . .	93.54	
Snow & Nealley Co., Rope and pulley . . . . .	6.41	
Utterback-Gleason Co., Inc., Harness renewals . . . . .	57.94	
	<hr/>	\$262.11

## Disinfectants:

Atlantic Express Co., Express . . . . .	\$5.71	
Richardson, F. D. . . . .	.57	
Rochester Germicide Co. . . . .	50.79	
Sawyer Crystal Blue Co. . . . .	4.60	
	<hr/>	\$61.67

## All Other:

American Railway Express Co., Express . . . . .	1.53	
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## Almshouse—Continued

Applegate Chemical Co., Indelible ink.....	8.99
Bangor Publishing Co., Adv. for cook.....	.60
Bangor Tallow Co., Killing hogs ...	1.75
Bean, W. A. & Sons, Killing hogs...	3.00
Bell, Everett, Cabbage plants ....	3.75
Brown, Elmer E., M. D., Treatment of eye.....	3.00
Burr, T. W. Ptg. & Adv. Co., Letterheads, envelopes, receipt books	19.41
Clark, Stillman W., Threshing grain.....	43.20
Dunham-Hanson Co., Oil, grease...	7.40
Dunning, R. B. & Co., Fence, oil, grease, etc.....	41.71
Eastern Maine Gen'l Hospital, Ambulance.....	7.00
Ellingwood, Fred, Horse hire—hay- ing.....	28.00
Harvey Hardware Co., Oil.....	.45
Haskell, A. B. Co., Shavings.....	9.00
Kane, Michael, Taxi, ambulance...	7.00
King, Chas. H., D. M. D., Extract- ing teeth.....	8.00
Maine Central R. R. Co., Demur- rage on waste.....	14.00
McTigue, John E., Carriage.....	1.00
Murch, Alfred L., M. D. V., Vet- erinary.....	8.00
Murray, Edgar A. Co., Roach Doom.....	5.00
New England Tel. & Tel. Co.....	56.70
New Franklin Laundry, Laundry ..	143.92
Philbrick, C. S., M. D., Consulta- tion.....	10.00
Randall, E. E., Eggs for incubator..	12.00
Rice, C. H. Co., Curing ham.....	2.72
Sanborn, Harry, Moving tractor ...	3.00
Standard Oil Co. of N. Y., Kero- sene oil, gasoline.....	41.91
Supply Dept., Pencils, vouchers, etc.....	6.78

**Almshouse—Continued**

Utterback-Gleason Co., Inc., Gall cure, suit case, etc.....	10.70	\$509.52
<b>Total Almshouse.....</b>		<b>\$20,164.47</b>

**Almshouse—Special Appropriation:****Furniture:**

Chandler & Co.....	\$1,390.59
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**Outside Relief by City:****Groceries and Provisions:**

Anderson, Peter A.....	\$80.00
Brennan, J. H.....	5.00
Chapman, G. A.....	205.00
Fleming, J. F.....	415.00
Foley, J. E. Co.....	135.00
Fox, Elmer R.....	20.00
Frank Grocery Co., The.....	70.00
Gallagher Bros.....	205.00
Jordan, R. C.....	5.00
Kane, A. H.....	45.00
Karam Bros.....	5.00
Lord Bros.....	25.00
McDonald, H. E.....	45.00
Pearson, C. D.....	5.00
Robinson, S. H. & Son.....	100.00
Speed, Clarence C.....	175.00
Staples & Griffin.....	65.00
White, Wm. F.....	10.00
Wilde, E. W.....	5.00
Winchester, C. F.....	205.00
	<b>\$1,825.00</b>

**Dry Goods, Clothing, Boots and Shoes:**

Besse System Co., Clothing, shoes..	\$41.54
Connors, John Shoe Co., Shoes.....	37.35
Freese, A. L., Dry Goods, clothing..	15.78
Hamm, Mrs. Mary, Clothing, shoes	9.70
Healy Asylum, Clothing, shoes ...	13.00

## Outside Relief by City—Continued

Kenney, N. A., Cap. . . . .	1.25	
Modern Repairing & Shoe Co., Re- pairing shoe. . . . .	1.75	
New York Syndicate, Clothing, shoes. . . . .	107.86	
Nichols, E. C. Dry Goods Co., Clothing. . . . .	64.47	
Outlet Corp., The, Clothing, shoes	151.87	
Waterman, J. Co., Clothing. . . . .	102.80	
		\$547.37

## Medical Attendance and Medicine:

Banton, Leon G., M. D., Insane case	\$5.00	
Brown, Elmer, M. D., Insane case, treatment of eye. . . . .	8.00	
Bryant, B. L., M. D., Insane case . .	5.00	
Buckley Drug Co., Prescription . . .	3.55	
Cox, James F., M. D., Insane cases..	18.00	
Eastern Maine Gen'l Hospital—X- Ray treatments. . . . .	24.00	
Gibbs, Chas. H., M. D., Professional services. . . . .	25.00	
Goodwin, Harold M., M. D., Insane case. . . . .	5.00	
Hamm, Mrs. Mary, Medicine . . . .	1.75	
Hagerthy, A. C., M. D., Medical at- tendance. . . . .	15.50	
Herlihy, Edward, M. D., Medical attendance. . . . .	5.00	
McCann, Daniel M., M. D., Con- sultation. . . . .	5.00	
Milliken, H. J., M. D., Insane cases.	12.00	
Robinson, H. L., M. D., Professional services. . . . .	4.00	
Sanger, E. B., M. D., Insane case . .	5.00	
Scribner, H. C., M. D., Professional services. . . . .	142.00	
Woodcock, Allan, M. D., Consulta- tion. . . . .	10.00	
		\$293.80

## Outside Relief by City—Continued

## Board:

Cushman, Mrs. M. E. . . . .	\$1.20	
Hamm, Mrs. Flora E. . . . .	306.00	
Hamm, Mrs. Mary . . . . .	238.56	
Healy Asylum. . . . .	196.00	
Johnson, Mrs. E. F. . . . .	8.40	
Kenney, N. A. . . . .	12.00	
Moore, Mrs. E. S. . . . .	126.00	
Newey, Mrs. Lillian. . . . .	39.00	
New Royal Hotel . . . . .	8.58	
Perkins, Mrs. A. A. . . . .	13.80	
Robinson, Mrs. E. L. . . . .	190.82	
Towle, Mrs. Mattie A. . . . .	80.00	
	<hr/>	\$1,220.36

## Rent:

Cohen, Mrs. Harry . . . . .	\$4.00	
Dolan, Bridget Est. . . . .	119.00	
Goldberg, Mrs. Eva. . . . .	76.00	
Leavitt, S. . . . .	18.75	
Martin, Albert. . . . .	48.00	
Shapiro, Max. . . . .	80.00	
	<hr/>	\$345.75

## Transportation:

Clayton, Wm. Z. . . . .	\$16.64	
Eastern Maine Gen'l Hospital Am- bulance. . . . .	11.00	
Eastern Steamship Lines, Inc. . . . .	7.13	
Kane, Michael, Ambulance . . . . .	4.00	
Kenney, N. A., Auto hire. . . . .	12.00	
Maine Central R. R. Co. . . . .	149.35	
Maxfield, D. W. . . . .	2.25	
McTigue, John, Carriage. . . . .	2.00	
Merchants & Miners Transporta- tion Co. . . . .	16.63	
Page, C. A. . . . .	6.00	
Robinson, Prudence. . . . .	5.00	
	<hr/>	\$232.00

## Burial:

Clayton, Wm. Z. Co. . . . .	\$89.00
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**Outside Relief by City—Continued**

Hathorn, R. E. . . . .	26.00	
Kelleher, J. T. . . . .	25.00	
Mount Pleasant Catholic Cemetery . . . . .	5.00	
White, Ralph B. . . . .	290.00	
	<hr/>	\$435.00

**Dependent Children—State:**

State of Maine . . . . .		\$2,257.92
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**All Other:**

American Railway Express Co., Express . . . . .	\$4.22	
Burr, T. W. Ptg. & Adv. Co., Wood order blanks . . . . .	4.95	
Drake, Jennie S., Cash . . . . .	168.00	
Robinson, Mrs. E. L., Hair cuts . . . . .	1.05	
Sisko, John, Interpreter . . . . .	2.56	
	<hr/>	\$180.78

Total Outside Relief by City . . . . .		\$7,337.98
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**Relief Given by Other Cities and Towns:****Transportation:**

Gardiner, City of . . . . .	\$1.81	
Millinocket, Town of . . . . .	7.00	
	<hr/>	\$8.81

**Medical Attendance:**

Ellsworth, City of . . . . .	\$4.00	
Gardiner, City of . . . . .	216.00	
Millinocket, Town of . . . . .	130.00	
	<hr/>	\$350.00

Total Relief Given by Other Cities and Towns . . . . .		\$358.81
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**City Physician:**

Salary . . . . .		\$416.67
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**City Missionary:**

Salary .....	\$566.66
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**SOLDIERS' BENEFITS****Soldiers' Benefits:**

## State of Maine:

State Pensions .....	\$5,058.00
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**MOTHERS' AID FUND****Aid:**

Abbott, Hannah L. ....	\$100.00
Blake, Mary E. ....	100.00
Brewer, City of. ....	112.50
Brown, Josie L. ....	120.00
Bucksport, Town of. ....	257.90
Burke, Elizabeth A. ....	180.00
Burke, Lillian M. ....	140.00
Carlisle, Margaret E. ....	300.00
Clark, Ellen F. ....	180.00
Clukey, Margaret E. ....	56.00
Drolet, Bessie. ....	150.00
Ellis, Annie. ....	120.00
Eslin, Ida M. ....	520.00
Fessenden, Susan W. ....	100.00
Fickett, Laura M. ....	220.00
Gerow, Almeda. ....	200.00
Grover, Amanda M. ....	180.00
Hanson, Ellen M. ....	100.00
Jellison, Emma A. ....	80.00
Jewell, Annie H. ....	145.00
Laffey, Ellen M. ....	138.00
Lewiston, City of. ....	150.00
Litchman, Clara. ....	234.00
Mace, Florence E. ....	200.00
McCarthy, Margaret J. ....	300.00
McDonald, Bertha J. ....	196.00
Merrill, Margaret. ....	220.00

## Mother' Aid—Continued

Moran, Margaret A.....	300.00	
Pinkham, Beulah H.....	80.00	
Wheelock, Jessie M.....	300.00	
		<hr/>
	\$5,479.40	
Credit: Reimbursements.....	2,997.00	
		<hr/>
		\$2,482.40

Total Mothers' Aid Fund ... \$2,482.40

## EDUCATION

## General Administration:

Office, Superintendent, Medical, Clerk and Committee:

## Superintendent:

Salary..... \$3,000.00

## Committee:

Salary..... \$250.00

## Medical Inspectors:

Salaries..... \$757.02

## Clerks:

Salaries..... \$1,566.67

Total General Administration..... \$5,573.69

## School Agent:

Salary..... \$833.31

## Office Supplies:

American Multigraph Sales Co., Ribbon and rider.....	\$6.48
Babb, Edward E. & Co., Ink stand .	1.35
Bacon, John H. Ptg. Co., Paper....	12.10



**Education—Continued**

Bangor Co-Operative Ptg. Co., Tui- tion books . . . . .	11.03	
Burr, T. W. Ptg. & Adv. Co., Env. blanks . . . . .	22.00	
Dillingham's, Books and Envelopes	9.46	
Rice & Miller Co., Twine . . . . .	5.10	
Sullivan, Dan T., Paper, cards, etc..	51.99	
Supply Dept., Vouchers, blanks . . .	9.64	
Sweet, Caldwell Co., Denatured alcohol . . . . .	.25	
Williams, C. F. & Son, Inc., Teach- ers' application blanks . . . . .	1.06	
		\$130.46

**Multigraph:**

American Multigraph Sales Co. . . . .	\$104.37	
		\$234.83

**Teachers' Salaries:**

High School . . . . .	\$56,525.54
Common Schools . . . . .	103,073.87

**Text Books and Supplies:****Text Books:**

Allyn & Bacon . . . . .	\$690.07
American Book Co. . . . .	1,993.44
Appleton, D. & Co. . . . .	125.87
Arlo Publishing Co. . . . .	29.34
Babb, Edward E. & Co. . . . .	2,085.24
Barnard, F. J. . . . .	222.60
Desmond Publishing Co. . . . .	15.00
Doubleday, Page & Co. . . . .	49.11
Educational Publishing Co. . . . .	3.20
Ginn & Co. . . . .	1,283.30
Heath, D. C. & Co. . . . .	734.73
Holt, Henry & Co. . . . .	6.60
Houghton, Mifflin Co. . . . .	576.56
Lippincott, J. B. Co. . . . .	1.39
Little, Brown & Co. . . . .	152.45

## Text Books and Supplies—Continued

Lyons & Carnahan . . . . .	23.25
MacMillan Co., The . . . . .	938.95
Manual Arts Press, The . . . . .	98.19
Merrill, Chas. E. Co. . . . .	25.99
Palmer, The A. N. Co. . . . .	31.18
Palmer, The Co. . . . .	78.04
Pitman, Isaac & Sons. . . . .	143.72
Row, Peterson & Co. . . . .	17.92
Sanborn, Benj. H. & Co. . . . .	110.96
Scott, Foresman & Co. . . . .	701.80
Scribner's, Chas. Sons . . . . .	209.74
Silver Burdett & Co. . . . .	1,825.57
Sower, Christopher Co. . . . .	125.65
Sprague, John Francis . . . . .	6.00
Stokes, Frederick A. Co. . . . .	1.88
Warwick & York . . . . .	50.51
White-Smith Music Publishing Co. .	12.21
Winston, John C. Co. . . . .	401.07
World Book Co. . . . .	1,028.24
	<hr/>
	\$13,799.77

## School Supplies:

American Multigraph Sales Co., Type, clips . . . . .	\$1.47
Atkinson, Mentzer & Co., Rank books . . . . .	18.59
Automatic Pencil Sharpener Co., Pencil sharpeners . . . . .	114.73
Babb, Edward E. & Co. . . . .	1,432.29
Bacon, John Ptg. Co., Paper, cards, etc. . . . .	63.25
Becker, Peter, Erasers . . . . .	15.85
Boston Paper Board Co., Paper . . .	190.00
Bradley, Milton Co., Paper, pen- cils, etc. . . . .	717.99
Burr, T. W. Ptg. & Adv. Co., Blanks, maps . . . . .	65.25
Colonial Co., Paper . . . . .	286.06
Commercial Paste Co., Gluey. . . . .	9.80
Curtis Standard Research Tests, Tests . . . . .	23.89
Dillingham's, Ink, books, etc. . . . .	14.05

## Text Books and Supplies—Continued

Dunning, R. B. & Co., Seed for kindergarten . . . . .	.25
Educational Pub. Co., Language games . . . . .	1.36
Ginn & Co., Exam. questions . . . . .	68.65
Hall, Edwin O., Ink, paper, etc. . . . .	16.15
Hammett, J. L. Co., Paper, erasers, etc. . . . .	300.85
Kenney Bros. & Wolkins, Inkwells . . . . .	55.92
Knott, L. E. Apparatus Co., Laboratory supplies . . . . .	211.58
Makepeace, B. L., Rulers . . . . .	20.15
Massachusetts Audubon Society, Charts . . . . .	15.00
McKinley Publishing Co., Maps . . . . .	13.52
Mineral Tablet Ink Co., Ink powder . . . . .	16.84
Neidich Process Co., Typewriter ribbons . . . . .	29.40
Nichols, E. C. Dry Goods Co., Supplies for kindergarten . . . . .	6.19
Rand McNally & Co., Maps . . . . .	323.21
Remington Typewriter Co., Typewriter ribbons . . . . .	3.00
Ryan & Buker, Ink powder . . . . .	15.08
Schoenhut, The A. Co., Kindergarten supplies . . . . .	63.73
Sullivan, Dan T., Paper, guides, etc. . . . .	266.24
Sweet, Caldwell Co., Laboratory supplies . . . . .	20.83
Teachers College, Tests, etc. . . . .	13.35
University of Wisconsin, French tests . . . . .	6.00
Wensell & Co., Duplicating roll . . . . .	5.67
	<hr/>
	\$4,426.19

## Cleaning Material:

Bowler, Leslie J., Soap . . . . .	\$2.00
Conant, C. M. Co., Soap powder . . . . .	20.25
Dunham-Hanson Co., Mop handles, cleaner, etc. . . . .	18.20
Hayward, Chas. & Co., Soap powder, Bon Ami, etc. . . . .	12.98

## Text Books and Supplies—Continued

Masury Young Co., Oil, brushes, etc.....	426.44	
Rice & Miller Co., Sweeping com- pound, etc.....	56.68	
Ryan & Buker, Blackboard cleaner	3.80	
Wescott, Geo. I. & Son, Soap, soap powder, brooms.....	49.20	
West Disinfecting Co., Soap, etc....	233.70	
Wood & Bishop Co., Dust pans ....	2.00	
		\$825.25

## Other Supplies:

Andrews Paper Co., Drinking cups, toilet paper.....	\$253.75	
Bolton, Harry I., Spray.....	1.25	
Brown, Walter I., Coupon tickets ..	6.05	
Commercial Paste Co., Paste.....	11.76	
Drummond, F. H., Kerosene Oil ...	.22	
Dunham-Hanson Co., Brushes, etc.....	20.27	
Emmons, Richard, Sand and bar- rels.....	14.00	
Freese, A. L., Burlap.....	2.87	
Hayward, Chas. & Co., Paper tow- els, toilet paper.....	181.36	
Morrill, True C., Envelopes.....	11.34	
Narragansett Machine Co., Mater- ial for repairs.....	16.89	
Sweet, Caldwell Co., Rest room sup- plies.....	14.80	
West Disinfecting Co., Westowels, holders, etc.....	322.59	
Williams, C. F. & Son, Binders, etc..	48.86	
Wood & Bishop Co., Pails.....	2.15	
		\$908.16

## Printing:

Bacon, John H. Ptg. Co., Programs, sheets, etc.....	257.52	
Bangor Co-Operative Ptg. Co., Catalogs, programs, etc.....	386.53	
Burr, T. W. Ptg. & Adv. Co., Cards, letterheads, etc.....	190.90	
		\$834.95

**Text Books and Supplies—Continued**

## Furniture:

Milton Bradley Co., Chairs, tables .	\$84.35
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## Stereoscopic Views:

Ryan & Buker . . . . .	191.50
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Total Text Books and Supplies . . . . .	\$20,070.17
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**Janitors' Service:**

High School . . . . .	\$6,136.00
Common Schools . . . . .	8,707.71

**Fuel and Light:**

## High School:

## Fuel:

Bacon & Robinson Coal Co., Coal .	\$1,925.28
Connor Coal & Wood Co., Wood . . .	22.00
Hincks Coal Co., Coal . . . . .	2,059.61
Woodman, J. F. & Co., Coal . . . . .	447.55
	<u>\$4,454.44</u>

## Gas:

Bangor Gas Light Co. . . . .	170.44
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Total High School . . . . .	\$4,624.88
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**Common Schools:**

## Fuel:

Bacon & Robinson Coal Co., Coal .	\$2,542.19
Connor Coal & Wood Co., Coal and wood . . . . .	2,911.51
Durgain, Curtis & Son, Wood . . . . .	38.50
Hincks Coal Co., Coal . . . . .	3,580.58
Morrison, A. D., Wood . . . . .	522.25
Stickney & Babcock Coal Co., Coal .	2,462.56
Wilson, Herbert, Wood . . . . .	94.00
Wodman, J. F. & Co., Coal . . . . .	1,732.80
	<u>\$13,884.39</u>

**Fuel and Light—Continued**

## Gas:

Bangor Gas Light Co. . . . .	\$8.40	
		<hr/>
Total Common Schools . . . .		\$13,892.79

**Maintenance and Repairs:**

## Carpenter Repairs:

Brooks, Ervin R. . . . .	\$218.50	
Coffin, Merle L. . . . .	4.00	
Cutter, Leslie W. . . . .	9.30	
Holyoke, C. E. . . . .	28.00	
McPherson & Barrows. . . . .	485.00	
Morse & Co., Lumber. . . . .	170.79	
Morse, F. S. . . . .	106.71	
Patten, L. P. . . . .	2,119.39	
Reid, Geo. W., . . . . .	2,199.36	
Sullivan, L. M. Co., Lumber. . . . .	253.02	
		<hr/>
		\$5,594.07

## Painting Repairs:

Berry, John F. Co. . . . .	\$382.50	
Gorham, The W. H. Co. . . . .	251.61	
Kavanaugh, Robert H. . . . .	8.60	
Morse & Co., Paint. . . . .	1.60	
Northern Paint Co., Paint. . . . .	.74	
Rice & Miller Co., Paint, oil. . . . .	208.22	
		<hr/>
		\$853.27

## Plumbing Repairs:

Babb, C. H. & Co. . . . .	\$668.45	
Babb, Edward E. & Co., Toilets for country schools. . . . .	213.10	
Clark, Frank J. . . . .	61.64	
Dunham-Hanson Co., Sani-flush . .	6.00	
Dyer & Rounds . . . . .	113.51	
Fairbanks Bros. . . . .	110.45	
Maine Plumbing Co. . . . .	77.92	
Sweeney Bros. . . . .	136.90	
		<hr/>
		\$1,387.97

**Maintenance and Repairs—Continued****Heating Repairs:**

Babb, C. H. & Co.....	\$2.50	
Dyer & Rounds.....	183.83	
Heal, L. G.....	1.25	
Morrison, A. D.....	8.80	
Penobscot Foundry Co.....	13.39	
Union Iron Works.....	703.18	
Wood & Bishop Co.....	228.22	
		\$1,141.17

**Cleaning:**

Atwood, Horace W., Cleaning.....	\$23.47	
Brown & White Co., Brooms.....	17.19	
Coffin, Lloyd P., Cleaning.....	6.00	
Coffin, Merle L., Cleaning.....	1.00	
Dallman, H. I. Co., Floor brushes ..	306.00	
Dugan, Mrs. Adra, Cleaning.....	287.00	
Dunham-Hanson Co., Dustbanc, dustpand.....	30.36	
Ellis, Mrs. Florence, Cleaning.....	32.00	
Goody, Geo. W., Cleaning.....	90.00	
Hall, Geo. W., Cleaning.....	6.00	
Hanson, Margarett, Cleaning.....	23.00	
Hart, Burton, Cleaning.....	35.00	
Hazelton, B. E., Cleaning.....	12.00	
Kimball, Mrs. W. L., Cleaning.....	6.00	
Masury Young Co., Oil, sprayers, etc.....	32.94	
Morrison, A. D., Cleaning.....	27.13	
Quirk, E. M., Cleaning.....	12.00	
Rice & Miller Co., Sweeping com- pound, etc.....	37.49	
Russell, Mrs. John S., Cleaning....	11.00	
Ryan & Buker, Blackboard cleaner	3.74	
Watson, Albert K., Cleaning.....	12.00	
Wescott, Geo. I. & Son, Brooms, Bon Ami.....	7.75	
		\$1,019.07

**Other Repairs:**

American Wood Working Machin- ery Co., Repairs for lathes.....	\$32.33
Atkins Bros. & Co., Glazing repairs.	135.00

## Maintenance and Repairs—Continued

Babb, C. H. & Co., Lining sand table and pump repairs . . . . .	21.02
Bangor Railway & Electric Co., Gravel . . . . .	105.30
Bangor Window Shade Co., Shades .	10.00
Berry, John F. Co., Glazing repairs	44.36
Berry & Smith, Rope and splicing hooks . . . . .	.75
Boudreau, Joseph . . . . .	12.00
Bragg, N. H. & Sons, Hardware, etc . . . . .	8.24
Brown & White Co., Repairs for lawn mower . . . . .	1.75
Carter, A. J., Filing saws . . . . .	1.40
Casey, Francis T., Concrete work . .	69.00
Chandler & Co., Rubber matting . . .	2.44
Conant, C. M. Co., Culvert . . . . .	18.32
Crogan Mfg. Co., Repairing tape . . .	1.00
Dole Co., The, Batteries, labor . . . .	3.40
Dunham-Hanson Co., Material for repairs . . . . .	398.34
Dunning, R. B. & Co., Material for repairs . . . . .	89.37
Electric Dept., Lamps and brushes for motor . . . . .	200.33
Emerson, J. S., Mason repairs . . . . .	397.26
Finn, John B., Roof repairs . . . . .	39.70
Fitz Bros. Co., Welding valve cover . . . . .	1.00
Gorham, W. H. Co., Glazing repairs . . . . .	7.24
Hammett, J. L. Co., Hyloplates, slating . . . . .	58.37
Hathorn, John G., Grading Fairmount School . . . . .	249.75
Haynes & Chalmers Co., Material for repairs . . . . .	79.05
Hodgkins & Fiske Co., Shades and repairs . . . . .	100.72
Kavanaugh, Robert H., Glazing repairs . . . . .	36.12
Kelley, E. F. & Sons, Relining gutters . . . . .	369.74



## Maintenance and Repairs—Continued

Kenney Bros. & Wolkins, Blackboards, chair pedestal . . . . .	116.56
Lynch, M. & Co., Repairs to locks, keys, etc. . . . .	101.19
Maine Electric Light & Power Co., Push button . . . . .	.19
McKim, R. B. Co., Cement, hooks, etc. . . . .	2.60
McPherson & Barrows, Mason repairs . . . . .	398.92
Merryman, A. N., Repairing roof . . . . .	1,369.50
Morrison, A. D., Repairs . . . . .	96.35
Northern Paint Co., Inc., Pumice stone . . . . .	.12
Noyes, C. A., Glazing repairs . . . . .	44.00
Pol, Bernhard, Repairing clocks . . . . .	3.00
Powers Regulator Co., Diaphragms, etc. . . . .	36.62
Remington Typewriter Co., Repairs to typewriter . . . . .	6.89
Rice & Miller Co., Material for repairs . . . . .	154.71
Schwartz, M. Co., Rubber belt, filing saws, etc. . . . .	11.50
Smith, G. W. & Co., Repairs on fire escape . . . . .	94.04
Smith, L. C. & Bros. Typewriter Co., Repairs to typewriter . . . . .	7.63
Standard Electric Time Co., The, Repairs for clocks . . . . .	53.37
Sullivan, Dan T., Repairing numbering machine . . . . .	2.60
Trask, Allan P., Repairing clocks . . . . .	11.00
Underwood Typewriter Co., Repairing typewriter . . . . .	30.25
Union Iron Works, Repairs . . . . .	19.87
Vose, P. H. Co., Chair seat nails . . . . .	1.40
Wentworth, Ernest, Repairing and grinding lawn mower . . . . .	1.50
Wheelden, H. L. Co., Electrical repairs . . . . .	496.88
Worthington Pump & Machinery Co., Repairs . . . . .	60.44

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 \$5,614.43

**Maintenance and Repairs—Continued**

## Furniture:

Bradley, Milton Co., Chairs . . . . .	\$84.19	
Great Northern Chair Co., Chairs . .	78.00	
Hammett, J. L. Co., Desks and seats . . . . .	917.00	
Hodgkins & Fiske Co., Desks and chairs . . . . .	80.00	
Kenney Bros. & Wolkins, Chairs . . .	45.00	
Ryan & Buker, Desks . . . . .	228.60	
		\$1,432.79

## Typewriters:

Smith, L. C. & Bros. Typewriter Co. . . . .	\$311.00
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## Flag Pole:

Hammett, J. L. Co. . . . .	\$81.40
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## All Other:

Babb, Edward E. & Co., Kaustine . .	\$28.00
Casey, Francis T., Carting ashes . . .	92.00
Derby, G. B. Co., Trucking . . . . .	1.50
Dunham-Hanson Co., Clothes bask- ets, etc. . . . .	14.15
Dunning, R. B. & Co., Snow shovel .	5.88
Eastern Furniture Co., Burlap . . . .	39.50
Hanson, Margarete, Taking off and putting on storm windows, etc. . .	8.00
Haynes & Chalmers Co., Oil and brads . . . . .	5.98
Hayward, Chas. & Co., Paper tow- els, toilet paper . . . . .	98.98
Hillman, Chas. H., Boughs and banking . . . . .	6.00
Hodgkins & Fiske Co., Shades, chair glides . . . . .	14.00
Iverson, Wm. and Ferd Iverson, Work on trees . . . . .	4.83
Jones, F. S. & Co., Gas and lantern globe . . . . .	1.52
Kelley, Frank, Removing ashes . . .	20.00
Kenney Bros. & Wolkins, Inkwells .	36.00

**Maintenance and Repairs—Continued**

Lynch, M. & Co., Machine ink. . . . .	6.00	
Masury-Young Co., Spray oil. . . . .	106.49	
Maynard, Albert, Taking out ashes. . . . .	44.00	
McDonald, H. E., Oil. . . . .	1.15	
McKim, R. B. Co., Scoup. . . . .	2.35	
Morrison, A. D., Cleaning vaults, removing banking, etc. . . . .	151.75	
Quirk, Edward, Removing ashes . . . . .	8.00	
Rice & Miller Co., Cans, shovels, etc. . . . .	31.60	
Ropes, John, Labor at Union Sq. boiler house. . . . .	8.00	
Ryan & Buker, Blackboard cleaner . . . . .	3.96	
Schwartz, M. Co., Saws, hooks, etc. . . . .	6.31	
Snow & Nealley Co., Garden hose, oil, etc. . . . .	7.90	
Stevens, Frank E., Trucking. . . . .	3.00	
Sweet, Caldwell Co., Bottles, stop- pers. . . . .	.88	
West Disinfecting Co., Westowels . . . . .	124.00	
Wood & Bishop Co., Water cans, pails, etc. . . . .	22.95	
		\$904.68
Total Maintenance and Re- pairs. . . . .		\$18,339.85

**Manual Training:****Lumber:**

Morse & Co. . . . .	\$171.50	
Sullivan, L. M. Co. . . . .	312.05	
		\$483.55

**Tools:**

Bragg, N. H. & Sons. . . . .	\$2.14
Batavia Clamp Co. . . . .	24.56
Hall, Edwin O. . . . .	57.60
Haynes & Chalmers Co. . . . .	27.36
McKim, R. B. Co. . . . .	2.21
Morse & Co. . . . .	30.67
Penobscot Foundry Co. . . . .	8.45

## Manual Training—Continued

Rice & Miller Co.....	52.25	
Schwartz, M. Co.....	7.50	
Union Iron Works.....	3.30	
		\$216.04

## Repairs to Tools:

American Wood Working Machinery Co.....	\$8.89	
Bragg, N. H. & Sons.....	1.75	
Carter, A. J.....	11.65	
McKim, R. B. Co.....	2.39	
Schwartz, M. Co.....	5.28	
		\$29.96

## Miscellaneous Supplies:

Bragg, N. H. & Sons, Steel, hardware, etc.....	\$ 7.17	
Bruce Publishing Co., Books.....	5.84	
Casein Mfg. Co., The, Glue.....	3.14	
Dietzgen, Eugene Co., Pencils, paper.....	38.40	
Dunham-Hanson Co., Hasp.....	.75	
Hall, Edwin O., Ink and paper.....	162.99	
Haynes & Chalmers Co., Paint, oil, etc.....	59.69	
Kavanaugh, R. H., Paint.....	2.45	
Liggett, Louis K. Co., Vaseline, bandages, etc.....	6.37	
Makepeace, B. L. Inc., Ink.....	11.20	
Morse & Co., Glue.....	1.20	
Northern Paint Co., Paint, brushes, etc.....	9.06	
Post, Frederick, Drawing Inst.....	5.64	
Rice & Miller Co., Paint, screws, etc.....	41.05	
Schwartz, M. Co., Screws.....	.25	
Snow & Nealley Co., Cotton waste, etc.....	6.72	
Sullivan, Dan T., Tags.....	2.69	
Sweet, Caldwell, Vaseline, denatured alcohol.....	1.00	
Union Iron Works, Oil, crocus cloth.....	5.15	
		\$370.76

**Manual Training—Continued**

## Glue Heater:

Moore, Frank K. Co.....	\$21.00
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## All Other:

Babb, C. H. & Co., Lining table....	\$17.50
Brooks, Ervin R., Millwork.....	4.50
	<u>\$22.00</u>

Total Manual Training.....	\$1,143.31
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**Domestic Science:**

## Dry Goods:

Freese, A. L.....	\$53.76
Emerson, W. S. Co.....	85.27
	<u>\$139.03</u>

## Groceries:

Chapman, G. A.....	\$30.66
Fickett, Oscar A. Co.....	9.90
Fox, Elmer R.....	132.22
Frank Grocery Co.....	18.31
Gallagher Bros.....	12.60
Jones Sea Food Market.....	2.00
Lord Bros.....	24.11
McDonald, H. E.....	56.37
Merchants Produce Co.....	60.12
Morrill, C. W.....	16.74
Robinson, S. H. & Co.....	14.44
Swift & Co.....	15.30
Wescott, Geo. I. & Son.....	35.56
Wilde, E. W.....	10.94
Winchester, C. F.....	25.00
	<u>\$464.27</u>

## Ice:

Bangor Ice Co.....	\$22.75
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## Milk and Cream:

McCabe, LeRoy P.....	\$116.38
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**Domestic Science—Continued****Laundry:**

Empire Steam Laundry. . . . .	\$15.51
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**Miscellaneous Supplies:**

Freese, A. L., Patterns. . . . .	\$6.75
Nichols, E. C. Dry Goods Co., Pat- terns. . . . .	7.70
Singer Sewing Machine Co., Bob- bins and shuttle. . . . .	2.06
Vosc, P. H. Co., Dishes. . . . .	50.84
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	\$67.35

Total Domestic Science. . . . .	\$825.29
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**Night School:**

Salaries of Teachers. . . . .	\$720.00
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**Supplies:**

Bangor Ice Co., Ice. . . . .	\$1.00
Chapman, G. A., Groceries. . . . .	5.00
Empire Steam Laundry, Laundry .	1.21
Fox, Elmer R., Groceries. . . . .	16.05
Gallagher Bros., Groceries. . . . .	6.10
Lord Bros., Groceries. . . . .	12.50
McCabe, Leroy P., Milk and cream.	18.40
Nichols, E. C. Dry Goods Co., Pat- terns. . . . .	2.20
Palmer, The Co., Books. . . . .	4.92
Robinson, S. H. & Son, Groceries. . .	4.50
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	\$71.88

Total Night School Sup- plies. . . . .	\$71.88
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**Incidental:****Trips Out of City:**

Proctor, Clarence W. . . . .	\$13.00
Robinson, Mary C. . . . .	13.00
	<hr/>
	\$26.00

**Incidental—Continued**

## Transportation:

Ellis, E. T. . . . .	60.00	
Kane, Michael . . . . .	72.00	
Morrill, True C. . . . .	356.50	
	<hr/>	\$488.50

## Telephone:

New England Tel. & Tel. Co. . . . .		\$230.10
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## Insurance:

Baker & Hodge Co. . . . .	\$108.00	
Black, A. H. . . . .	492.00	
Blake, Barrows & Brown, Inc. . . . .	108.00	
Bright, J. M. . . . .	108.00	
Byrnes, Patrick J. . . . .	116.67	
Curran, Wm. F. Co. . . . .	108.00	
Dyer, Ralph . . . . .	36.00	
Freeland, Geo. B. . . . .	118.50	
Gallagher, Hugh T. . . . .	108.00	
Littlefield, W. A. & Son . . . . .	246.00	
Lord, Henry & Co. . . . .	185.60	
Palmer, W. W. . . . .	162.00	
Pearl & Dennett Co. . . . .	118.92	
Singleton, J. F. Co. . . . .	108.00	
Somers, L. W. Co. . . . .	86.40	
Tyler, L. C. & Sons Co. . . . .	110.16	
Warren, Wm. M. . . . .	164.00	
	<hr/>	\$2,484.25

## School Census:

Pay Roll . . . . .		\$344.80
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## Trucking and Freight:

Bradbury, C. E., Trucking and freight . . . . .	\$249.59
Derby, G. B. Co., Trucking . . . . .	85.86
Grant, F. H. Trucking . . . . .	6.00
Great Northern Chair Co., Freight . . . . .	5.09
Maine Central R. R. Co., Freight . . . . .	36.70
Maynard, Albert, Trucking . . . . .	12.80
Morrill, True C., Trucking . . . . .	41.50
Morrison, A. D., Trucking . . . . .	4.50

**Incidental—Continued**

Peavey, F. L. Transfer Co., Trucking . . . . .	1.00	
Stevens, Frank, Trucking . . . . .	34.50	
White, S. A., Trucking . . . . .	246.75	
		\$724.29

**Supplies:**

Anderson, Mrs. W. H., Cards, charts . . . . .	\$1.60	
Andrews Music House Co., Music . . . . .	2.80	
Bangor Ice Co., Ice . . . . .	4.25	
Burr, T. W. Ptg. & Adv. Co., Envelopes . . . . .	1.50	
Dunham-Hanson Co., Paper bags . . . . .	.32	
Earle, Frank W., Stamps, tags . . . . .	2.20	
Freese, A. L., Ribbon for diplomas . . . . .	92.79	
Gillan, S. Y. & Co., Class records . . . . .	15.59	
Maine Electric Light & Power Co., Grill . . . . .	12.00	
Portland Directory Co., Directories, Maine Registers . . . . .	17.00	
Royal Typewriter Co., Coupon book . . . . .	9.00	
Smith, L. C. & Bros. Typewriter Co., Coupon books . . . . .	18.00	
Underwood Typewriter Co., Typewriter ribbons . . . . .	11.50	
West Disinfecting Co., Westowels, liquid soap . . . . .	167.00	
		\$355.55

**Duplicator, Typewriters:**

Dalton Adding Machine Co., Part payment on adding machine . . . . .	25.00	
Remington Typewriter Co., Typewriters . . . . .	320.00	
Royal Typewriter Co., Typewriters . . . . .	315.50	
Wensell & Co., Duplicator . . . . .	50.00	
		\$710.50

**Printing:**

Bacon, John H. Ptg. Co. . . . .	\$125.30
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## Incidental—Continued

Bangor Co-Operative Ptg. Co.....	106.19	
Burr, T. W. Ptg. & Adv. Co.....	134.10	
Glass, Chas. H. Co.....	41.25	
Howard & Brown.....	62.06	
Williams, C. F. & Son.....	85.94	
		\$554.84

## Desk:

Hodgkins & Fiske Co.....	\$70.00
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## All Other:

Anderson, Mrs. W. H., Welding scales.....	\$2.00
Andrews Music House Co., Tuning.....	7.50
Bangor Railway & Electric Co., Lighting auditorium — graduation.....	14.91
Buxton, Hope, Trip to Waterville—speaking contest.....	9.12
Chalmers Studio, Photos for catalog.....	2.00
Curran, Edward, Trip to Waterville—speaking contest.....	4.32
Earle, Frank W., Repairing numbering machine.....	8.00
Emery, Mrs. Sarah, Numbering tickets.....	2.00
Goldthwait, John, Taking tickets ..	3.00
Gray, Edward, Building stage for Junior Exhibition.....	15.00
Great Northern Paper Co., Blueprinting.....	2.13
Hodgkins & Fiske Co., Loan of chairs.....	2.70
Howard-Wesson Co., Photos.....	103.24
Smith, L. C. & Bros. Typewriter Co., Repairing typewriters.....	2.50
Sodenburg, Arnott, Trip to Waterville—speaking contest.....	4.32
Underwood Typewriter Co., Repairing typewriter.....	2.00

**Incidental—Continued**

Williams, Pearle, Negatives . . . . .	12.75	
	<hr/>	\$197.49
Total Incidental . . . . .		\$6,186.32

**Conveyance:**

Hazelton, Leslie . . . . .	\$110.00	
Smith, Mrs. Frank . . . . .	360.00	
	<hr/>	
Total Conveyance . . . . .		\$470.00

**Water:****Water:**

Cole, W. H. & Son . . . . .	\$79.20	
Leathers, F. M. . . . .	6.55	
Scott, Geo. W. . . . .	5.38	
	<hr/>	
Total Water . . . . .		\$91.13

**Open Air School:****Open Air School:**

Crowell, C. Parker, Plans . . . . .	\$80.00	
Morse, F. S., Repairs . . . . .	1,920.00	
	<hr/>	
Total Open Air School . . . . .		\$2,000.00

**LIBRARIES****Libraries:**

Appropriation by City . . . . .	\$12,841.48
Granted by State . . . . .	500.00

## RECREATION

## Parks and Gardens:

## Maintenance and Operation:

Salaries and Wages . . . . .	\$2,924.63
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## Supplies:

Dunning, R. B. & Co., Agr. lime . .	\$6.50	
Eastern Cement Co., Cement . . . . .	21.04	
		<u>\$27.54</u>

## Repairs:

McNeil, R. D., Repairing wheels . . .	\$15.25	
Ryan, Frank, Repairing harness . . .	6.65	
Utterback-Gleason Co., Repairing harness . . . . .	7.27	
Carter, A. J., Sharpening lawn mowers, filing saws . . . . .	8.35	
Dunning, R. B. & Co., Repairs for mowers . . . . .	5.85	
Heal, L. G., Repairing wagon . . . . .	11.10	
Kendall-Winch Co., Repairing and sharpening lawn mowers . . . . .	9.80	
		<u>\$64.27</u>

## Equipment:

Dunning, R. B. & Co., Lawn mowers, forks, etc. . . . .	\$203.65	
Haynes & Chalmers Co., Axes, files, etc. . . . .	8.83	
Snow & Nealley Co., Cod Lines . . .	2.38	
Utterback-Gleason Co., Inc., Collar pads, curry comb, brush, etc. .	2.45	
		<u>\$217.31</u>

## Hay, Grain and Straw:

Bangor Hay Co., Hay and straw . . .	\$57.24	
Hopkins, A. R. Co., Grain . . . . .	60.85	
Lawson-Spinney Co., Hay, straw . .	44.28	
		<u>\$162.37</u>

**Parks and Gardens—Continued****Horse Shoeing:**

Grant, Asa T.....	\$19.00
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**Back Stop Ball Ground:**

Morse, F. S.....	\$140.00
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**Shrubs:**

Allen, Mrs. Thomas.....	\$70.65
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**All Other:**

Conners Printing Co., Signs for parks.....	\$2.50
Dunning, R. B. & Co., Axle grease, lime sulphur.....	2.30
Haynes & Chalmers Co., Mobiloil .	8.42
Utterback-Gleason Co., Inc. Oil. . . .	1.00

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	\$14.22
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Credit: Junk.....	4.20
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	\$10.02
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Total Parks and Gardens. . . .	\$3,635.79
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**Little City Park:****Teams:**

Peavey, F. L. Transfer Co.....	\$173.25
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**Removing Limbs from Trees:**

Salaries and Wages.....	\$199.72
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**Playgrounds:**

Salaries.....	\$700.20
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**Equipment:**

Brown & White Co., Raffia.....	\$2.95
Bean, O. Crosby, Checker boards .	1.80
Crosby, S. L. Co., Balls.....	23.40
Cutter, L. W., Setting up equipment	126.63
Haynes & Chalmers Co., Croquet sets, chains, etc.....	18.53

**Playgrounds—Continued**

Nichols, E. C. Dry Goods Co., Tape needles.....	1.18	
Skinner, Otis Optical Co., Records	4.35	
	<hr/>	\$178.84

**All Other:**

Atkins Bros & Co., Glass and labor .	\$4.00	
Babb, C. H. & Co., Repairing slide .	8.40	
Dillingham's, Cardboard punch....	1.10	
Lynch, M. & Co., Padlocks and repairs.....	8.25	
O'Connell, J. F., Trucking.....	3.00	
Ryan, Frank, Repairing balls.....	2.75	
Thompson, L. H., Printing cards...	5.75	
Trask, Allan P., Medal.....	3.85	
	<hr/>	\$37.10

Total Playgrounds.....		\$916.14
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**Celebrations and Entertainments:****Band Concerts:**

Bangor Band.....	\$600.00
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**All Other:****Concerts July 4th:**

Bangor Band.....	\$150.00
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**UNCLASSIFIED****School Nurses:**

Salaries.....	\$968.88
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**Damages to Persons and Property:****Damage to Property:**

Hainer, Annie E.....	\$81.29	
Steinert's.....	10.00	
	<hr/>	\$91.99

**Damages to Persons and Property—Continued**

## Settlement of Law Suit:

Robinson, Eugene W.....	\$119.81	
	<hr/>	
Total Damages to Persons and Property.....		\$211.10

**Bangor District Nursing Association:**

Paid Association .....		\$416.67
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**Memorial Day:**

## Memorial Day:

McKinley, Wm. Camp.....	\$150.00	
Quartermaster B. H. Beal Post, G A. R.....	400.00	
Williams, James W. Post.....	100.00	
	<hr/>	
Total Memorial Day.....		\$650.00

**Contingent—Payments not Included in Other Classification:**

Salary of Harbor Master.....	\$333.33	
Salary of Superintendent of Clocks .	\$125.00	

**Pensions:**

Barker, Isaac.....	\$168.33	
Bell, Michael.....	250.00	
Blake, Elisha S.....	250.00	
Curran, Nicholas.....	250.00	
Dorsey, Michael.....	250.00	
Ferguson, Patrick.....	250.00	
McNamara, John.....	168.33	
Riley, Mrs. Elizabeth.....	250.00	
Shine, John.....	250.00	
Toole, Michael.....	250.00	
Woodbury, Chas. A.....	250.00	
	<hr/>	
		\$2,586.66

## Contingent—Continued

## Mothers' Aid:

American Railway Express Co., Ex- press. . . . .	\$ .80	
Bangor Post Office, Stamps. . . . .	2.80	
Burr, T. W. Ptg. & Adv. Co., Blanks. . . . .	8.65	
Doering, Jennie A., Clerk. . . . .	210.00	
Sullivan, Dan T., Book fillers. . . . .	.75	
	<hr/>	\$223.00

## Clock Repairs:

Bangor Railway & Electric Co. . . . .	\$ .10	
Burpee, C. Herbert, Cleaning and repairing clocks. . . . .	76.37	
Morse, F. S., Repairs on Universa- list Church clock. . . . .	78.36	
	<hr/>	\$154.83

## Insurance Armory and Court Street Building:

Baker & Hodge Co., Armory, Court St. Bldg. . . . .	\$792.12	
Byrnes, P. J., Court St. Bldg. . . . .	88.40	
Freeland, Geo. B., Armory. . . . .	52.80	
McClure, J. W. & Son, Court St. Bldg. . . . .	465.00	
Pearl & Dennett Co., Court St. Bldg. . . . .	21.70	
Tyler, L. C. & Sons Co. Inc., Arm- ory. . . . .	75.00	
	<hr/>	\$1,495.02

## City Council Orders:

Bangor Yacht Club. . . . .	\$100.00
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## Annual Reports:

Burr, T. W. Ptg. & Adv. Co. . . . .	\$998.30
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## Water Furnished Charitable Institutions:

Water Department. . . . .	\$2,357.60
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**Contingent—Continued**

## All Other:

American Railway Express Co., Express . . . . .	\$ .68	
Bangor Publishing Co., Adv. an- nual report printing . . . . .	4.00	
Bass, J. P. Pub. Co., Adv. annual report printing . . . . .	1.96	
Dover Stamping & Mfg. Co., Test- ing measure . . . . .	15.00	
Eaton, Geo. F., Expense to Augusta, account of Orono sewerage . . . . .	6.82	
Loder, A. J., Flowers—Gilman fun- eral . . . . .	25.00	
McNeil, H. D., Expense to Augusta account of Orono sewerage . . . . .	6.82	
Monroe Calculating Machine Co., Proportional cost of calculator . . .	75.00	
Ryder & Simpson, Opinion re legality temporary loan . . . . .	25.00	
Wood & Bishop Co., Tunnel . . . . .	.60	
	<hr/>	\$160.88
Total Contingent . . . . .		\$8,534.62

**PUBLIC SERVICE ENTERPRISES****Electric Department:**

## Maintenance and Operation:

Salaries and Wages . . . . .	\$18,157.14
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## Fire Alarm:

American Railway Express Co., Express . . . . .	\$4.47
Atlantic Express Co., Express . . . . .	.50
Bangor Battery & Service Co., Acid, hydrometer . . . . .	2.69
Derby, G. B. Co., Trucking . . . . .	1.75
Dole Co., The, Bell, conduit . . . . .	2.85
Dunning, R. B. & Co., Hardware . . .	2.71
Foster-McDonald Co., Balls . . . . .	32.55



## Electric Department—Continued

Gamewell Fire Alarm Telegraph Co., Paint, ink, etc. . . . .	43.82	
Haynes & Chalmers Co., Paint brushes, etc. . . . .	7.60	
Maine Central R. R. Co., Freight . .	2.81	
Northern Paint Co., Paint. . . . .	8.98	
Pettingell-Andrews Co., Transformer, cable. . . . .	76.55	
Sweet, Caldwell Co., Rubber tubing. . . . .	1.53	
Western Electric Co., Combination protector and fuses. . . . .	21.76	
Westinghouse Electric & Mfg. Co., Connectors. . . . .	39.71	
	<hr/>	
	\$250.28	
Credit: Fire Alarm box. . . . .	65.74	
	<hr/>	\$184.54

## Police Signals:

Derby, G. B. Co., Trucking. . . . .	\$1.00	
Eastern Steamship Lines, Inc., Freight. . . . .	1.75	
Gamewell Fire Alarm Telegraph Co., Register paper. . . . .	128.89	
Lewis Electrical Supply Co., Lense for flashlight. . . . .	.27	
Maine Central R. R. Co., Freight . .	1.58	
Pettingill-Andrews Co., Batteries, sal ammoniac, zincs. . . . .	34.30	
Dole Co., The, Batts. . . . .	6.00	
	<hr/>	
	\$173.79	
Credit: . . . . .	124.63	
	<hr/>	\$49.17

## Team Equipment:

Charity Dept., Hay. . . . .	\$33.31	
Grant, Asa T., Shoeing. . . . .	9.50	
Hopkins, A. R. Co., Grain. . . . .	18.80	
Moor, Geo. L. & Son, Straw. . . . .	1.61	
	<hr/>	\$63.22

## Electrical Department—Continued

## Inside Wiring:

American Railway Express Co., Express. . . . .	\$6.53
Atlantic Express Co., Express. . . . .	3.95
Cutter, Leslie W., Repairs. . . . .	27.87
Eastern Steamship Lines, Inc. . . . .	1.73
Derby, G. B. Co., Trucking. . . . .	2.50
Dole Co., The, Switch, conduit, etc. . . . .	28.02
Dunning, R. B. & Co., Nipples, hardware. . . . .	.68
Foster-McDonald Co., Electrical supplies. . . . .	285.10
General Electric Co., Repairs for motor. . . . .	1.40
Haynes & Chalmers Co., Screws, wire. . . . .	1.11
Lewis Electrical Supply Co., Electrical Supplies. . . . .	500.17
Maine Central R. R. Co., Freight . . . . .	7.26
Maine Plumbing Co., Heating repairs. . . . .	216.77
McKim, R. B. Co., Dickbelt. . . . .	7.72
New England Tel. & Tel. Co. . . . .	3.30
Pettingell-Andrews Co., Electrical supplies. . . . .	322.81
Schwartz, M. Co., Screws. . . . .	.15
Simplex Electric Heating Co., Repairing heaters. . . . .	6.33
Standard Thermometer Co., Sema-phores. . . . .	23.63
Westinghouse Electric & Mfg. Co., Heater and Contract fingers. . . . .	47.04
Wetmore-Savage Co., Electrical supplies. . . . .	96.98
Wheelden, H. L. Co., Electrical supplies. . . . .	49.02
	<hr/>
	\$1,640.07
Credit. . . . .	744.69
	<hr/>

\$895.33

## Electrical Department—Continued

## Line Maintenance:

American Railway Express Co., Express . . . . .	\$23.99
Atlantic Express Co., Express . . . . .	6.16
Bragg, N. H. & Sons, Bit brace, wedges, etc. . . . .	10.30
Derby, G. B. Co., Trucking . . . . .	38.00
Dole Co., The, Splicing comp. . . . .	.24
Dunham-Hanson Co., Axe, handle, etc. . . . .	2.45
Eastern Steamship Lines, Inc., Freight . . . . .	13.90
Foster-McDonald Co., Pins, insula- tors, etc. . . . .	156.73
Goode & Driscoll, Lunches . . . . .	1.60
Ham, E. W. Electric Co., Tape . . . . .	25.00
Haynes & Chalmers Co., Hardware, tools . . . . .	17.45
Lewis Electrical Supply Co., Wire, fixtures, etc. . . . .	378.00
Line Material Co., Swivel eyes, arms . . . . .	25.38
Maine Central R. R. Co., Freight . . . . .	78.01
Mitchell, R. H., Bolts . . . . .	19.00
New England Tel. & Tel. Co. . . . .	50.29
Pettingill-Andrews Co., wire, fix- tures, etc. . . . .	552.38
Pioneer Mfg. Co., The, Paint . . . . .	22.50
Queen City Granite Co., Cutting holes for poles . . . . .	4.38
Schwartz, M. Co., Screws . . . . .	4.90
Snow & Nealley Co., Wood blocks . . . . .	8.59
Stuart-Howland Co., Sockets . . . . .	31.25
Terrill, D. D., Filing saws . . . . .	1.35
Wahn, Geo. H. Co., Sockets . . . . .	23.44
Western Electric Co., Wire, bolts, etc. . . . .	608.18
Westinghouse Electric & Mfg. Co., Tape, solder . . . . .	32.95
Wetmore-Savage Co., Fixtures, wire, etc. . . . .	1,073.29
	<hr/>
	\$3,209.71
Credit: . . . . .	41.30
	<hr/>
	\$3,168.41

## Electrical Department—Continued

## Power Station:

Bangor Railway & Electric Co., Electricity.....	\$76.20
Boyd, J. Herbert, Insurance.....	56.50
Bragg, N. H. & Sons, Hardware, tools.....	24.39
Bright, J. M., Insurance.....	19.80
Brown Bros., Wipers.....	18.34
Citizens Ice Co., Ice.....	89.40
Derby, G. B. Co., Trucking.....	14.00
Dunham-Hanson Co., Paint, tacks .	256.66
Dunning, R. B. & Co., Brooms, hardware.....	17.03
Eastern Steamship Lines, Inc., Freight.....	11.55
Finn, John B., Roof repairs.....	17.13
Fitz Bros. Co., Welding.....	33.50
Gallagher, Hugh T., Insurance.....	16.20
Garlock Packing Co., Packing, leather cups.....	13.18
Gorham, W. H. Co., Painting re- pairs.....	570.35
Haynes & Chalmers Co., Hardware, paint, etc.....	14.95
Johnson & Crymble, Repairs.....	58.92
Lewis Electrical Supply Co., Wire . .	18.75
Lombard-Governor Co., Oil, strain- ers, cups.....	50.72
Lord, Henry & Co., Insurance.....	13.50
Lynch, M. & Co., Padlocks.....	10.50
Maine Central R. R. Co.....	19.39
Maine Plumbing Co., Plumbing re- pairs.....	64.99
McPherson & Barrows, Mason re- pairs.....	61.40
New England Tel. & Tel. Co.....	77.35
Palmer, W. W., Insurance.....	18.00
Penobscot Foundry Co., Castings . .	89.76
Rice & Miller Co., Stamping out- fit.....	3.43
Robinson, Wm. C. & Son Co., Oil .	118.38
Schwartz, M. Co., Waste, saw blades, etc.....	66.01

## Electrical Department—Continued

Smith, G. W. & Co., Work on water wheel steps . . . . .	180.68	
Snow & Nealley Co., Wire, thim- bles, clips . . . . .	18.42	
Somers, L. W. Co., Insurance . . . . .	104.95	
Standard Oil Co., of N. Y., K. oil, gas . . . . .	5.40	
Stewart, Chas. M., Insurance . . . . .	9.00	
Thompson Mfg. Co., Cogs and keys	194.04	
Union Iron Works, Repairs . . . . .	17.30	
United States Graphite Co., Brushes . . . . .	9.14	
Vacuum Oil Co., Oil . . . . .	123.09	
Wescott, Geo. I. & Son, Gold Dust .	4.05	
		\$2,586.35
Credit: Cost of lighting Bangor and Brewer Bridge . . . . .	250.00	
		\$2,336.35

## Sub Station:

Baker & Hodge Co., Insurance . . . . .	\$7.00
Bangor Gas Light Co., Gas . . . . .	20.16
Boyd, J. Herbert, Insurance . . . . .	25.12
Bright, J. M., Insurance . . . . .	5.60
Columbia Towel Supply Co., Tow- els . . . . .	11.50
Derby, G. B. Co., Trucking . . . . .	1.50
Dole Co., The, Wire . . . . .	2.13
Dunham-Hanson Co., Mule pails .	2.20
Dunning, R. B. & Co., Mops, brooms . . . . .	4.80
Haynes & Chalmers Co., Lanterns, shellac . . . . .	10.53
Kirstein, Louis & Sons, Insurance . .	12.56
Lewis Electrical Supply Co., Water heater . . . . .	43.62
Lynch, M. & Co., Repairing cylin- der and keys . . . . .	1.50
Maine Plumbing Co., Charging heater, piping . . . . .	57.56
New England Tel. & Tel. Co. . . . .	15.70
Palmer, W. W., Insurance . . . . .	7.00
Pearl & Dennett Co., Insurance . . . .	7.00

**Electrical Department—Continued**

Pettingill-Andrews Co., Vacuum cleaner.....	39.20	
Schwartz, M. Co., Saw blades, files, etc.....	2.59	
Somers, L. W. Co., Insurance.....	14.00	
Wescott, Geo. I. & Son, Soap, toilet paper, etc.....	17.83	
	<hr/>	\$309.10

**Fuel:**

Bacon & Robinson Coal Co., Coal .	\$193.53	
Stickney & Babcock Coal Co., Coal.	37.18	
Water Department, Coal.....	270.18	
	<hr/>	\$500.89

**Lamps Incandescent—Street Series:**

Dole Co., The.....	\$341.23	
Union Iron Works.....	747.96	
	<hr/>	\$1,089.19

**Lamps Multiple in Buildings:**

Dole Co., The.....	\$657.78	
Union Iron Works.....	326.47	
Wheelden, H. L. Co.....	43.92	
	<hr/>	\$1,028.17
Credit.....	488.67	
	<hr/>	\$539.50

**Arc Lights:**

American Railway Express Co., Express.....	\$20.20
Atlantic Express Co., Express.....	.50
Derby, G. B. Co., Trucking.....	1.50
Dunham-Hanson Co., Paint, brush.	.95
Dunning, R. B. & Co., Brushes, pipe.....	3.97
Foster-McDonald Co., Cutouts....	79.20
Gillinder & Sons Inc., Globes.....	92.00
Lewis Electrical Supply Co., Rings .	31.32
Maine Central R. R. Co.....	8.46

## Electrical Department—Highway

Pettingell-Andrews Co., Parts for arc lights . . . . .	486.27	
		<u>\$724.37</u>
Credit: Carbons . . . . .	50.00	
		<u>\$674.37</u>

## Miscellaneous:

American Railway Express Co., Express . . . . .	\$1.16	
Burr, T. W. Ptg. & Adv. Co., Blanks, env. . . . .	20.90	
Cutter, Leslie W., Letter file cabi- net . . . . .	7.53	
Eastern Steamship Lines, Inc., Freight . . . . .	2.49	
Electrical World, Subscription . . . .	5.00	
Hall, Edwin O., Pencils . . . . .	1.50	
Lewis Electrical Co., Batteries, bulbs . . . . .	74.28	
Lowell, Printing Co., Letterheads business cards . . . . .	14.50	
Maine Central R. R. Co., Freight . .	2.86	
Pettingell-Andrews Co., Batts . . . .	13.75	
Smith, L. C. & Bros. Typewriter Co., Typewriter . . . . .	95.25	
Sullivan, Dan T., Typewriter rib- bon, files . . . . .	10.69	
Supply Dept., Stamped envelopes, etc . . . . .	11.44	
Terrill, D. D., Filing saws . . . . .	3.25	
Western Union Telegraph Co., Clock rent . . . . .	11.25	
Wetmore-Savage Co., Batts . . . . .	15.79	
		<u>\$391.64</u>
Credit . . . . .	73.66	
		<u>\$317.98</u>

## Auto Maintenance:

Ayer, John D., Auto repairs . . . . .	\$3.00
Bangor Motor Co., Lamps . . . . .	1.10
Bangor Vulcanizing Co., Auto re- pairs, gas . . . . .	122.30

## Electrical Department—Continued

Boulter, J. J. & Son, Welding, soldering . . . . .	2.75	
Bragg, N. H. & Sons, Chains, etc. . .	18.76	
Byrnes, P. J., Insurance . . . . .	191.23	
Crosby, S. L. Co., Ford truck, repairs . . . . .	883.55	
Dunham-Hanson Co., Grease . . . . .	1.16	
Emergency Vulcanizing Co., Auto repairs . . . . .	132.52	
Fitz Bros. Co., Welding . . . . .	.75	
Haynes & Chalmers Co., Brushes, sand paper . . . . .	1.22	
Rice & Miller Co., Repair parts . . .	30.99	
Ring, Clarence, Auto repairs . . . .	122.41	
Smith, R. J., Auto repairs . . . . .	75.25	
Standard Oil Co. of N. Y., Gas and oil . . . . .	355.25	
State of Maine, Licenses . . . . .	6.00	
Strout's Garage, Auto repairs . . . .	289.48	
Taylor, J. A. . . . .	72.06	
		<hr/>
		\$2,309.78

## Underground Construction:

Bangor Railway & Electric Co., Conduit . . . . .	\$809.60
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## Flash Boards:

Haynes & Chalmers Co., Nails . . . .	\$13.96	
Morse & Co., Lumber . . . . .	117.09	
Pay Roll . . . . .	128.74	
Snow & Nealley Co., Picks, pickeroons . . . . .	3.90	
		<hr/>
		\$263.69

## Compensation Insurance:

Byrnes, Patrick J. . . . .	\$646.05
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## Exchange Street Lights:

Acme Mfg. Co., Cement accelerator . . . . .	\$13.00
Crossman, W. B., Wood . . . . .	8.00



**Electrical Department—Continued**

Derby, G. B. Co., Trucking . . . . .	41.06	
Dunning, R. B. & Co., Oil . . . . .	1.25	
Eastern Cement Co., Cement . . . . .	50.40	
Foster-McDonald Co., Cable . . . . .	73.14	
Haynes & Chalmers Co., Tarred paper . . . . .	4.10	
Lewis Electrical Supply Co., Poles, globes, etc. . . . .	2,747.40	
Maine Central R. R. Co., Freight . .	82.42	
Morse & Co., Lumber . . . . .	17.64	
Pay Roll . . . . .	259.47	
Queen City Granite Co., Cutting holes for poles . . . . .	33.76	
		\$3,331.64

Total Electric Department . .

\$35,646.00

**Water Department:**

## Maintenance and Construction:

## Expense:

Addressograph Co., Sections, cards, etc. . . . .	\$23.60
Anchor Packing Co., The, Valves . .	76.88
Arnold, J. M. Shoe Co., Rubber boots . . . . .	17.95
Atkins Bros. & Co., Glazing re- pairs . . . . .	15.06
Baker & Hodge Co., Insurance . . . .	66.86
Baker-Vawter Co., Card file, guides, etc. . . . .	26.88
Bangor Baking Co., Charcoal . . . . .	25.00
Bacon & Robinson Co., Coal . . . . .	1,246.32
Bangor Cast Stone Products Co., Gravel, stone . . . . .	200.90
Bangor Cleaning Co., Cleaning office—Court St. . . . .	5.60
Bangor Ice Co., Ice . . . . .	14.10
Bangor Motor Co., Auto repairs . .	759.12
Bangor Publishing Co., Advertising	115.01
Bangor Railway & Electric Co., Scrap rail . . . . .	23.68
Barrett Co., The, Coal tar . . . . .	5.00

## Water Department—Continued

Bass, J. P. Pub. Co., Advertising . . .	70.95
Berry & Smith, Duck and labor . . . .	497.92
Blake, Barrows & Brown, Inc., Bond—Sinking . . . . .	25.00
Boyd, J. Herbert, Insurance . . . . .	34.50
Bradbury, Chas., Sand . . . . .	42.00
Bragg, N. H. & Sons, Hardware, tools . . . . .	258.30
Brewer, City of, Tax . . . . .	40.08
Brooks Brick Co., Brick . . . . .	481.20
Brown, Walter I., Reimbursement for sundry bills paid . . . . .	5,128.34
Burr, T. W. Ptg. & Adv. Co., Re- ceipts, bills, blanks, etc. . . . .	293.85
Burroughs Adding Machine Co., Care of machine . . . . .	14.30
Byrnes, P. J., Insurance . . . . .	66.88
Byther & Curtis, Repairs . . . . .	46.92
Caird, James M., Services of self and assistant . . . . .	2,729.59
Carter, A. J., Filing saws . . . . .	2.10
Carter, Ralph E. & Co., Welding . . .	1.00
Cassidy, T. F. & Son, Pick poles . . .	4.50
Chandler & Co., Casters in chairs . .	3.25
Chapin, Arthur Co., Matches, toilet paper . . . . .	21.76
Charlton, Wm. J., Care of stand- pipe . . . . .	24.00
Citizens Ice Co., Ice . . . . .	25.00
Clifford, Fred H., Report of Water board . . . . .	4.00
Columbia Towel Supply Co., Tow- els . . . . .	7.35
Curran, Wm. F. Co., Insurance . . . .	122.40
Cutter, Leslie W., Repairs . . . . .	13.15
Dalton Adding Machine Sales Co., Adding machine . . . . .	88.20
Dillingham's, Office supplies . . . . .	21.35
Dole Co., The, Lamps, battery . . . .	63.36
Dubois, H. W. & Co., Carbon, pen- cils, clips, etc. . . . .	8.35
Dunham-Hanson Co., Paint, lan- tern globes, etc. . . . .	802.73

## Water Department—Continued

Dunning, R. B. & Co., Material for repairs . . . . .	393.52
Dyer & Rounds, Repairs . . . . .	54.44
Eagle Oil & Supply Co., Boiler metal treatment . . . . .	65.83
East Side Garage, Auto repairs . . .	22.96
Eastern Cement Co., Cement . . . . .	128.03
Eastern Fuel Co., Wood . . . . .	34.00
Ebbeson, Arvid L., Auto repairs . .	6.30
Eddy Valve Co., Valves, boxes, etc..	341.91
Electrical Dept., Lamps and repairs . . . . .	88.57
Emerson, W. S. Co., Batts and sheeting . . . . .	12.83
Eveready Mfg. Co., Tape . . . . .	4.16
Fairbanks Bros., Repairs to tank . . .	6.42
Finn, John B., Roof repairs . . . . .	45.60
First National Bank, Box rent . . . . .	15.00
Freeland, Geo. B., Insurance . . . . .	61.20
Furbush Printing Co., Bills . . . . .	34.25
Gallagher, Hugh T., Insurance . . . . .	91.80
Garlock Packing Co., Coil . . . . .	61.91
Gorham, The W. H. Co., Painting repairs . . . . .	3,789.03
Graffam, George M., Audit . . . . .	237.50
Haynes & Chalmers Co., Material for repairs . . . . .	317.79
Hersey Mfg. Co., Material for repairs . . . . .	39.10
Hodgkins & Fiske Co., Cork carpet	7.50
Kirstein, Louis & Sons, Insurance . .	919.65
Lawson-Spinney Co., Straw . . . . .	6.15
Lead Lined Iron Pipe Co., Pipe and couplings . . . . .	184.67
Lombard Governor Co., Governor head, oil, etc. . . . .	291.33
Lord, Henry & Co., Insurance . . . . .	46.00
Marble-Nye Co., Alkali . . . . .	1,115.98
Mason, W. S., Repairing dump cart . . . . .	16.50
McClure, J. W. & Son, Insurance . .	6.86
McKenney, G. & Sons, Filing saws .	2.75
McPherson & Barrows, Mason repairs . . . . .	272.91

## Water Department—Continued

Morse & Co., Lumber, netting . . . .	304.24
Mueller, H. Mfg. Co., Meter test record books . . . . .	1.06
Murray, Chas. Gasoline, kerosene oil . . . . .	180.08
National Lead Co., Pipe, pig lead .	231.18
National Meter Co., Repairs for meter . . . . .	1,038.12
New England Tel. & Tel. Co. . . . .	240.25
New York Continental Jewell Fil- tration Co., Strainers, tanks . . . .	1,021.50
Noyes & Nutter Mfg. Co., Iron, pipe, etc. . . . .	15.16
Orient Spray Co., Orient spray . . . .	10.50
Palmer, W. W., Insurance . . . . .	158.67
Pay Roll . . . . .	30,560.84
Pay Roll, Supt., Clerk . . . . .	4,208.30
Pennsylvania Salt Mfg. Co., Sul- phate alumina, chlorine . . . . .	9,052.90
Penobscot Foundry Co., Service box tops, caps, castings . . . . .	1,352.36
Pol, Bernhard, Repairing clock . . . .	2.00
Reid, Geo. W., Carpenter repairs . . .	341.75
Rice & Miller Co., Paper . . . . .	4.12
Richards & Co., Pipe layer . . . . .	100.00
Royal Typewriter Co., Typewriter .	45.00
Ryan, Frank, Repairing harness . . .	7.85
Schwartz, M. Co., Material for re- pairs . . . . .	159.60
Sinclair, M. A., Board of Horse and use of auto . . . . .	416.70
Singleton, J. F. Co., Insurance . . . .	114.35
Smith & Leighton, Shoeing . . . . .	6.25
Smith, Maurice C. Co., Number- ing machine, pads, ink . . . . .	11.71
Smith, S. Morgan Co., Tools . . . . .	14.85
Smith & West, Dry batteries . . . . .	10.17
Smith & Wiley, Shoeing . . . . .	5.25
Snow & Nealley Co., Rope, oil, grease . . . . .	53.52
Standard Oil Co. of N. Y., Kero- sene oil . . . . .	16.48
Stickney & Babcock Coal Co., Coal.	77.42
Sullivan, Dan T., Office supplies . . .	54.94

## Water Department—Continued

Sullivan, Thomas E., Custodian of Fishway. . . . .	91.67	
Supply Dept., Vouchers. . . . .	8.76	
Sweet, Caldwell Co., Acid, alcohol, etc. . . . .	19.38	
Thomson Meter Co., Meter repairs	147.60	
Thoms, H. B., Wagon repairs. . . . .	26.00	
Tibbetts, D. G., Carpenter repairs. .	58.32	
Towle, J. N. & Co., Salt. . . . .	1.92	
Union Iron Works, Material for repairs. . . . .	220.93	
Union Water Meter Co., Meter repairs. . . . .	627.84	
Vacuum Oil Co., Oil. . . . .	390.54	
Waldo Bros. & Bond Co., Repairs for engine. . . . .	63.49	
Wallace & Tiernan Co., Inc., Orifice and scale, valves, etc. . . . .	41.57	
Walworth Mfg. Co., Cocks, fittings, etc. . . . .	496.82	
Webster, F. S. Co., Carbon. . . . .	1.92	
Western Union Telegraph Co., Clock rent. . . . .	11.25	
Wetmore-Savage Co., Drill. . . . .	170.00	
Wheelden, H. L. Co., Electrical supplies. . . . .	20.40	
Williams, Pearle, Negative of pump	5.00	
Wood & Bishop Co., Solder. . . . .	7.50	
Woodman, C. Co., Lumber. . . . .	57.51	
Woodman, J. F. & Co., Coal. . . . .	999.03	
		<hr/>
	\$75,571.31	
Credit. . . . .	282.18	
		<hr/>
		\$75,289.13
Total Water Department . . .		\$75,289.13

## CEMETERIES

## Cemeteries:

## Maintenance—Labor and Teaming:

## Maple Grove:

Bryant, W. H.....	\$76.50	
Dunning, R. B. & Co., Scythe and snatch.....	3.25	
Wentworth, A.....	30.00	
	<hr/>	\$109.75

## Pine Grove:

Allen, E. H.....	\$95.25	
Dunning, R. B. & Co., Sprinkler....	2.00	
Rice & Miller Co., Fence.....	57.00	
	<hr/>	\$154.25

## Oak Grove:

Dunning, R. B. & Co., Lawn mower	\$26.00	
Eveleth, Ralph E. ....	142.00	
	<hr/>	\$168.00

## Mount Hope Public Grounds:

Hathorn, R. E.....	\$231.92	
	<hr/>	

Total Maintenance—Labor and Teaming.....		\$663.92
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## Superintendent of Burials:

## Mount Hope:

Salary.....	\$250.00	
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## Mount Pleasant:

Salary.....	\$166.67	
	<hr/>	

Total Superintendents of Burials.....		\$416.67
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## INTEREST

## Interest:

## On Temporary Loans:

## Interest:

Eastern Trust & Banking Co.....	\$6,778.29
First National Bank.....	2,572.80

Total Interest on Temporary Loans.....	
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	<u>          </u>	\$9,351.09
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## On municipal Bonds:

\$50,000.00 Interest Due 2d May and November:

Merchants National Bank, Boston .	\$400.00
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\$100,000.00 Interest Due 1st May and November:

Merchants National Bank, Boston .	\$2,740.00
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\$125,000.00 Interest Due 1st February and August:

Merchants National Bank, Boston .	\$2,500.00
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\$250,000.00 Interest Due 1st February and August:

Merchants National Bank, Boston .	\$4,980.00
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\$195,000.00 Interest Due 1st January and July:

Merchants National Bank, Boston .	\$3,400.00
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\$90,000.00 Interest Due 1st June and December:

Merchants National Bank, Boston .	\$3,510.00
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Total Interest on Municipal Bonds.....	
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	<u>          </u>	\$17,530.00
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## On Trust Funds Used with Arrears:

## Bangor Fuel Society:

Bangor Fuel Society.....	\$200.00
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**Interest—Continued****Bangor Mechanic Assn.:**

Bangor Mechanic Assn.....	\$720.00
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**Bangor Children's Home:**

Bangor Children's Home.....	\$2,400.00
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**Firemen's Relief Fund:**

Crowell, Fred.....	\$34.50	
Firemen's Relief fund.....	335.48	
Glynn, M. J. Sec.....	50.00	
	<hr/>	\$419.98

**Fogg Fund:**

Nichols, E. C., Dry Goods Co., Clothing.....	\$6.98	
Townsend, Geo. E., Groceries ....	11.64	
Yates, A. O. Shoe Co., Rubbers ....	.79	
	<hr/>	\$19.41
Credit: Paid from Trust Fund Cash.....	19.41	

**French Medal Fund:**

French Medal Fund.....	\$68.87	
Hutchings, I. M., Medals.....	222.57	
	<hr/>	\$291.44

**Holton Medal Fund:**

Babb, Edward E. & Co., Books ....	\$11.78	
Dillingham's, Subscription to maga- zine, binding Oracle, erasers.....	7.25	
Holton Medal Fund.....	41.48	
Library Bureau, Card pockets, due slips.....	3.18	
Lippincott, J. P. Co., Books.....	21.47	
Macmillan Co., The, Books.....	6.33	
Scribner's, Chas. Sons, Books.....	3.20	
Tablet & Ticket Co., Figures.....	5.31	
	<hr/>	\$100.00



**Interest—Continued**

## Home for Aged Women:

Home for Aged Women . . . . .	\$1,500.00
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## Hersey Fund:

Bangor Public Library . . . . .	\$4,000.00
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## Stetson Fund:

Adams, W. E. Shoe Co., Shoes, rubbers . . . . .	\$11.00
Anderson, Peter A., Groceries . . . . .	10.05
Bangor Shoe Store, Shoes, rubbers . . . . .	9.09
Besse System Co., Clothing, shoes . . . . .	8.01
Buckley Drug Co., Medicine, etc. . . . .	11.83
Chapman, G. A., Groceries . . . . .	5.00
Connors, John Shoe Co., Shoes . . . . .	54.00
Connor Coal & Wood Co., Coal . . . . .	8.45
Crossman, W. B., Wood . . . . .	20.00
Earle, Arthur J. Shoe Co., Shoes . . . . .	5.23
Ellingwood, Fred . . . . .	5.00
Finnegan & Monaghan Clothing Co., Clothing . . . . .	3.00
Fleming, John F., Groceries . . . . .	14.00
Freese, A. L., Clothing . . . . .	3.27
Gallagher Bros., Groceries . . . . .	16.56
Gilman, H. P. . . . .	1.75
Goodale, H. P., Groceries . . . . .	7.00
Gould, L. B. Co., Shoes . . . . .	1.98
Hale, C. B. & Co., Clothing . . . . .	4.70
Hammond Street Cash Market, Groceries . . . . .	20.09
Johnson, Mrs. Jennie, Distribution . . . . .	232.88
Kane, A. H., Groceries . . . . .	23.27
Lewis, H. R. & Co., Wash Boiler . . . . .	2.95
Liggett, Louis K. Co., Rubber sheeting, prescription . . . . .	4.44
Morrison's, Shoes . . . . .	3.39
New England Tel. & Tel. Co. . . . .	7.55
Nichols, E. C. Dry Goods Co., Clothing, rubbers . . . . .	29.18
Outlet Corp., The, Dry Goods . . . . .	5.42
Pearson, C. D., Groceries . . . . .	11.53
Perry, Frances, Groceries . . . . .	.20

## Interest—Continued

Rines Co., The, Clothing. . . . .	5.00	
Sawyer Boot & Shoe Co., Shoes . . . .	7.35	
Staples & Griffin, Groceries. . . . .	5.00	
Sweet, Caldwell Co., Prescription . .	1.04	
Townsend, Geo. Groceries. . . . .	20.70	
Viner, Harry, Shoes. . . . .	6.00	
Wood & Ewer Co., Dress. . . . .	1.98	
Yates, A. O. Shoe Co., Shoes. . . . .	12.11	
	<hr/>	\$600.00

## Wakefield Fund:

Wakefield Fund. . . . .	\$450.00
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## Hiram Oliver Fund:

Buckley Drug Co., Medicine. . . . .	\$12.25	
Chapman, G. A., Groceries. . . . .	10.00	
Crossman, W. B.; Wood. . . . .	16.00	
Dunham-Hanson Co., Kerosene can. . . . .	.50	
Frawley's Pharmacy, Medicine . . .	1.04	
Johnson, Mrs. Jennie M., Distribu- tion. . . . .	13.00	
Jordan, R. C., Groceries. . . . .	7.22	
Kane, A. H., Groceries. . . . .	5.00	
Maine Central R. R. Co., Freight on toys. . . . .	.92	
Nichols, E. C. Dry Goods Co., Clothing. . . . .	9.02	
Perry, Frances, Groceries. . . . .	5.13	
Sam's Sample Shoe Shop, Shoes. . . .	11.17	
Yates, A. O. Shoe Co., Shoes. . . . .	8.75	
	<hr/>	\$100.00

Total Interest on Trust Funds. . . . .	\$10,781.42
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## On Water Bonds:

\$500,000.00 Interest Due 1st January and July:

Merchants National Bank, Boston .	\$9,970.00
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### MUNICIPAL INDEBTEDNESS

#### Municipal Serial Bond Requirements:

\$50,000.00 Loan Due 2d November:		
Merchants National Bank, Boston .		\$5,000.00
\$100,000.00 Loan Due 2d November:		
Merchants National Bank, Boston .		\$5,000.00
\$90,000.00 School Bonds Due 1st December:		
Merchants National Bank, Boston .		\$5,000.00
		<hr/>
Total Municipal Serial Bond Requirements . . . . .		\$15,000.00

### SINKING FUNDS

#### Sinking Funds:

Water Loan Annual Appropriation:		
Donovan, T. G., Treasurer . . . . .		\$12,000.00
		<hr/>
Total Revenue Expenditures		\$802,184.80

### NON-REVENUE EXPENDITURES

#### HEALTH AND SANITATION

#### Sanitation:

##### Sewer Construction:

Salaries and Wages . . . . .	\$5,398.38
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##### Material:

Bangor Cast Stone Products Co., Sand . . . . .	\$25.80
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## Health and Sanitation—Continued

Brooks Brick Co., Brick . . . . .	132.00	
Conant, C. M. Co., Culvert . . . . .	22.94	
Haynes & Chalmers Co., Dynamite . . . . .	18.13	
Penobscot Foundry Co., Castings . . . . .	18.40	
Union Iron Works, Manhole . . . . .	64.00	
	<hr/>	\$281.27
Land:		
Hainer, Annie E. and Wm. H. . . . .		\$200.00
Sewer Pipe:		
Babb, C. H. & Co. . . . .	\$304.99	
Maine Central R. R. Co. . . . .	107.36	
Sewer Dept. . . . .	1,200.00	
	<hr/>	\$1,612.35
Repairs:		
Shannon, M., Sharpening picks . . . . .		\$6.60
		<hr/>
Total Sewer Construction . . . . .		\$7,498.60
Catch Basin Construction:		
Salaries and Wages . . . . .		\$330.90
Material:		
Bangor Cast Stone Products Co., Sand . . . . .	\$12.90	
Brooks Brick Co., Brick . . . . .	194.62	
Farrington, D. C., Sand . . . . .	2.50	
Penobscot Foundry Co., Castings . . . . .	73.60	
Sewer Dept., Sewer pipe . . . . .	300.00	
Union Iron Works, Cesspool . . . . .	46.75	
	<hr/>	\$630.37
		<hr/>
Total Catch Basin Construction . . . . .		\$961.27

## HIGHWAYS AND BRIDGES

## Highways:

## Gravelling Thirteenth Street:

## Gravelling:

Highway Department.....	\$2,000.00
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## Construction Central Street:

Salaries and Wages.....	\$924.19
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## Material:

Bangor Cast Stone Produce Co., Sand and gravel.....	\$90.45
Blaisdell, T. M. & Son, Curbing....	36.00
Eastern Cement Co., Cement.....	475.75
Highway Dept., Cement, gravel, rock.....	487.45
Morse & Co., Lumber.....	81.18

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	\$1,170.83
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Credit.....	816.10
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	\$354.73
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## All Other:

Moulton, Frank, Expenses to Franklin, to bring up granite curbing.....	\$2.10
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Total Construction Central Street.....	\$1,281.02
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## Construction Hammond St.:

Salaries and Wages.....	\$58.47
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## Material:

Bangor Cast Stone Products Co., Sand, gravel.....	\$72.78
Bangor Railway & Electric Co., Hauling gravel.....	19.80

## Highways—Continued

Barrett Co., The, Pitch, coal tar ..	2.13	
Eastern Cement Co., Cement.....	133.50	
	<hr/>	\$228.21

## Cutting Curb:

Queen City Granite Co.....		7.50
		<hr/>

Total Construction Ham-  
mond Street.....

\$294.18

## Construction Harlow Street Sidewalks:

## Sidewalks:

Casey, Francis T.....	\$3,187.02	
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## Drilling Curb:

Queen City Granite Co.....	\$2.50	
	<hr/>	

Total Construction Harlow  
Street Sidewalks.....

\$3,189.52

## Reconstruction Sidewalks and Curbing:

## Reconstruction Sidewalks:

Casey, Francis T.....		\$3,454.08
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## Construction Sidewalks and Curbing:

## Construction Sidewalks:

Bangor Opera House Assn.....	\$84.61	
Casey, Francis T.....	1,391.14	
Murray, Thomas.....	939.75	
Wescott, Geo. W. et als.....	25.00	
	<hr/>	

Total Construction Side-  
walks and Curbing.....

\$2,440.50

## Construction Main Street:

Salaries and Wages.....	\$1,129.98	
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**Highways—Continued****Material:**

Bangor Cast Stone Products Co., Sand, gravel.....	\$539.39	
Bangor Railway & Electric Co., Hauling gravel.....	217.75	
Eastern Cement Co., Cement.....	1,384.84	
	<hr/>	\$2,141.98

**Re-Cutting Paving Blocks:**

Toon, Geo.....	\$1,244.82
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**All Other:**

Queen City Granite Co., Cutting at Caldwell Sweet's corner.....	\$6.88	
	<hr/>	
Total Construction Main Street.....		\$4,523.66

**Construction State Roads:****State Aid Highways:**

State of Maine.....	\$1,903.15
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**Sprinkling:****Equipment:**

Dyar Supply Co., Sprinkler Cart...	\$645.00	
Maine Central R. R. Co., Freight on cart.....	65.20	
	<hr/>	
	\$710.20	
Credit: Second Hand Sprink....	250.00	
	<hr/>	
Total Equipment.....		\$460.20
		<hr/>
Total Non-Revenue Ex- penditures.....		\$28,006.18

## ESTIMATED REVENUE

## TAXES:

## Railroad and Telegraph Tax:

State of Maine.....	\$35,230.79
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## LICENSES AND PERMITS:

## Sundry Licenses:

Theatres.....	\$130.00
Employment.....	150.00
Peddlers.....	120.00
Billiards and Pool.....	120.00
Gasoline.....	49.00
Plumbers.....	32.50
Auctioneers.....	12.00
Circuses.....	35.00
Fireworks.....	20.00
Gunpowder.....	10.00
Meat Carts.....	350.00
Shooting Galleries.....	20.00
Dogs.....	10.00
	<hr/>
Total Sundry Licenses.....	\$1,058.50

## GRANTS AND GIFTS:

## Grants from State:

## Schools:

Support of Public Schools.....	\$39,536.91
Aid to Industrial Schools.....	3,080.92
Aid to Free High School.....	500.00
School and Mill Tax.....	16,535.18
Vocational.....	966.66
	<hr/>
Total Schools.....	\$60,619.67
Armory.....	700.00
Libraries.....	500.00



**SPECIAL ASSESSMENTS:**

Street Sprinkling . . . . .	\$11,379.14
Sewers . . . . .	1,623.28
Sidewalks and Curbing . . . . .	898.70

**PRIVILEGES:****Public Service—Wires and Franchise:**

Bangor Railway & Electric Co.— Street Franchise . . . . .	\$2,800.00
Bangor Railway & Electric Co.— Bangor & Brewer Bridge Fran- chise . . . . .	1,600.00
	<hr/>
Total Public Service—Wires and Franchise . . . . .	\$4,400.00

**GENERAL GOVERNMENT****City Hall and Court Street Building:**

Rent of Hall . . . . .	\$2,264.00
Rent of Offices . . . . .	650.81
Rent of Municipal Court Room . . . . .	1,000.00
Rent of part of Court Street Build- ing . . . . .	250.00
Rent of Land—Post Office Site and Abbott Square . . . . .	40.00
Rent of Almshouse Field . . . . .	130.00
	<hr/>
Total City Hall and Court Street Building . . . . .	\$4,334.81

**PROTECTION OF PERSONS AND PROPERTY****Police Department—Court Fees:**

Municipal Court Fees . . . . .	\$7,185.63
Supreme Court Fees . . . . .	1,693.10
	<hr/>
	\$8,878.73

## General Government—Continued

## Police Department—Sundry Receipts:

Buttons.....	\$7.56
Received for Rides in Patrol.....	12.50
Cracker barrels.....	3.40
All Other.....	3.00

Total Police Department— Sundry Receipts.....	\$26.46
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## HEALTH AND SANITATION

## Sewers—Sundry:

Entrance Fees.....	\$15.00
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## HIGHWAYS AND BRIDGES

## Highways:

Sprinkler.....	\$275.00
Old Auto.....	2.50

Total Highways.....	\$277.50
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## Bridges:

City of Brewer—Bangor & Brewer Bridge.....	\$965.02
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## CHARITIES

## Almshouse—Sale of Products:

Hay.....	\$1,613.72
Pigs.....	80.00
Calves.....	10.00

Total Almshouse—Sale of Products.....	\$1,703.72
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**Charities—Continued**

## Reimbursements from Individuals, Cities, Towns and State:

Individuals . . . . .	\$1,145.84	
Cities and Towns . . . . .	2,938.08	
State . . . . .	6,182.92	
		<hr/>
Total Reimbursements . . . . .		\$10,266.84

**SOLDIERS' BENEFITS**

State Pensions . . . . .	\$5,058.00
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**EDUCATION**

## Tuition and Sale of Heat:

Tuition . . . . .	\$6,208.70	
Sale of Heat . . . . .	2,009.58	
		<hr/>
		\$8,218.28

**PUBLIC SERVICE ENTERPRISES:**

## Water Department:

Water . . . . .	\$86,500.00	
Water Furnished Charitable In- stitutions . . . . .	2,357.60	
		<hr/>
Total Water Department . . .		\$88,857.60

**CEMETERIES**

## Sale of Lots:

Mount Hope . . . . .	\$168.00	
Pine Grove . . . . .	40.00	
Oak Grove . . . . .	30.00	
		<hr/>
Total Sale of Lots . . . . .		\$238.00

## INTEREST

On Bank Deposits .....	\$1,830.59	
On Taxes .....	1,237.80	
On Tax Titles .....	186.65	
	<hr/>	
Total Interest .....		3,255.04

## OTHER REVENUE

## Unclassified:

Telephone .....	\$144.07	
Weighing Machine .....	6.80	
Sheep Killed by Dogs .....	438.00	
Hay from Lincoln Street Lot .....	3.00	
	<hr/>	
Total Unclassified .....		\$591.87

## Supplementary Taxes:

Taxes .....	\$344.73	
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TOTAL ESTIMATED REVENUE		<hr/>	\$249,441.68
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## TAXES

## State and County Taxes:

State Tax .....	\$152,679.17	
County Tax .....	40,232.31	

TOTAL TAXES .....		<hr/>	\$192,911.48
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## RESERVES

## Reserve for Municipal Coupons:

February 28, 1921, Balance .....	\$720.00	
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## Expenditures:

Merchants National Bank, Boston .	\$700.00	
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Balance Unexpended .....		<hr/>	\$20.00
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**Reserve for Water Coupons:**

February 28, 1921, Balance . . . . .	\$540.00
Expenditures:	
Merchants National Bank, Boston . . . . .	520.00
	<hr/>
Balance Unexpended . . . . .	\$20.00

**Reserve for New School House—Balance Left from Bond Account:**

February 28, 1921, Balance . . . . .	\$5,988.05
April 30, 1921 Interest . . . . .	3.20
May 31, 1921, Interest . . . . .	.16
June 30, 1921, Interest . . . . .	.17
July 31, 1921, Interest . . . . .	.16
	<hr/>
	\$5,991.74

**Expenditures:**

Brooks, Ervin R. . . . .	\$159.92
Crowell, C. Parker & Walter S. Lancaster . . . . .	99.08
Dahlstrom Metallic Door Co. . . . .	340.08
Dole Co., The . . . . .	91.28
Transferred to Surplus of General Revenue Assets Over Liabilities . . . . .	5,297.69
	<hr/>
	\$5,988.05
	<hr/>
Balance Unexpended . . . . .	\$3.69

## Report of Health Officer

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*To His Honor the Mayor and Gentlemen of the City Government:*

The past ten months of health work in Bangor have been productive of much good to the city. We have had much closer co-operation from the citizens in general, and all have tried to do their part to make our city better and healthier. There is still room for improvement and with the facilities we have at our command, there is no doubt but the next year will show the same progress that has characterized the past year.

The program that we mapped out in 1921 has been carried out, and many of our recommendations accepted. This year we need to extend our work, and perfect the things that are proving unsatisfactory, in order that we may make our city a model one.

### MILK

This year, for the first time in our history, an inspection was made and all cattle given the tuberculin test. We were able to have this done by our active co-operation with the State and Federal departments, and without cost to the owner. There were about 2.7% of the cows that reacted to the test and were ordered destroyed. This year, through the same agencies, the cattle will all be tested again and the physically unfit destroyed, so that our people may be assured of a supply of milk that will not endanger their health. The milkmen without exception, worked with the spirit of the law, and became more interested in the production of good milk.

Fully realizing that the unusually dry summer put an extra burden on the milkmen, many of them having to haul water and find new pastures for their herds, I have tried to make things as easy as possible for them, and still insure the citizens of a good supply. We have tried to have as many examinations of milk made as time would allow, and then make our recommendations to the producer. When a supply proved to fall below the standard, we concentrated our efforts on it and immediately tried to improve it. This happened in a few cases, and proved effectual. In one or two instances, we examined the supply of one man every day for five or six weeks till we got his product running in a way that conformed to our standards. In doing this our attitude was one of cooperation instead of antagonization and by so doing we got better results.

Supplying the City of Bangor are 55 dealers, and they are distributed in a ten mile radius from the city. These dealers have approximately about 630 cows, and distribute to Bangor about an average of 3436 quarts per day. Added to this we have many of the neighborhood cows who supply the milk in their respective districts.

The work of examination of the milk we determined the total solids, fat content, bacteria count and tested the milk for B-coli. The first of our tests showed many supplies far below the standard, and our work then was to see milk men personally and try and better the supply.

The dairies, as many of them as we could visit, were inspected, and as many changes were discussed with the producer. We were always cognizant of the fact that this inspection and examination of the milk supply was a new thing for the milk men, and we tried to make things as pleasant as possible for them, and not inflict any hardships on the producer. Our plan was to work slowly, and eventually attain our end.

We have greatly improved the supply and with the co-operation this year, there is no doubt but what it will continue to improve. Our plans this year, and with the additional help that we have in the office will give us more time on the milk, and will enable us to make many more examinations of the same.

## MEAT

We have made inspections this year of the meat markets and the meat carts that have their stand in Pickering Square. The markets and the carts have been as a rule kept in good condition and we have had to make very few suggestions to them.

This year all the carts in the square have been licensed, and this gives us a much closer supervision over them.

The summary of work done and recommendations made:

Refrigerators ordered cleaned . . . . .	2
Refrigerators ordered to be connected with sewer . . . . .	1
Cooked meats exposed to dust . . . . .	3

## ABBATOIRS

The condition of the abbatoirs in the city has been very good. The recommendations made the previous year have been followed out. This year, we anticipate no trouble with them as they all try to help out the work rather than hinder it.

The summary of work done:

Visits made . . . . .	80
Beef condemned . . . . .	2640 lbs.
Pork condemned . . . . .	1050 lbs.
Veal condemned . . . . .	138 lbs.

## STORES

We have inspected a great many stores this year and found them to be in good condition. In many of them our recommendations were accepted cheerfully and the proprietors cooperated with us to better the existing conditions.

## ICE CREAM FACTORIES

The ice cream factories have come in for regular inspections from this department, and they have been found to be run in conformity with the rules laid down by the health department.



## SEWERS

There have been put in this year 1875 feet of new sewers. Included in this are the sewers that we recommended last year, and many new ones to take care of new development. The sewer that formerly went over the bank at Everett Street has been entered into the new Nelson street sewer and this does away with an unsightly and unhealthy place. This year I would like to see that the residents on Seventeenth street get the privileges of a sewer as it is badly needed there. The Sewer Board have at all times been interested in these projects and have co-operated with us.

## WATER

The residents of Hersey Avenue, Woodbury, McLaughlin and Bryant streets have this year had the water mains extended, and these streets now are all connected with the sewer.

## DUMPS

Our dumps have been well looked after. The one at Sidney street we restricted the privilege to the dumping on non-decaying material, in order that we might have a presentable place when we finally closed it. This will be done this spring, as it now encroaches on private land. We will have to have a new dump for the West Side.

The Broadway dump, which now takes care of most of the city's refuse, should have an incinerator to burn the paper material that goes there. The residents in that vicinity have at all times been bothered with papers and the like that blow from the dump, and the installing of an incinerator would be of great benefit.

Four private dumps were closed by action of the department this year as they had become unhealthful and unsightly.

### COMFORT STATION

This station that is located in City Hall has proven a nuisance and should be done away with. In its place a new up to date station should be established. If this were done, it could be kept in a much better condition and would not prove the eye sore that it now is. This could be done by the establishing of up-to-date plumbing and tile floors and walls, which could easily be kept clean and sanitary.

### PLUMBING

The report of the plumbing inspector, which is attached to this report shows the work that has been done in that department. This office which is one of the most necessary ones that we have proves most valuable to the cause of health. Every day we are finding more and more unsanitary and out of date plumbing, which we have remedied and it insures people of clean living conditions. One prosecution was obtained before the Municipal Court for violating the provisions of this ordinance. Once again, we ask the citizens to let us know if they have any doubt in their plumbing arrangements, and we will be only too glad to have them inspected by our inspector.

### HOUSING CONDITIONS

I think that these conditions have improved this year. We have had occasion to vacate four houses this year, until they could be put in proper condition for habitation. We intend this year to keep up this work and see to it that our people have proper conditions in which to bring up their families.

### GARBAGE

The City Government in the past year passed the Garbage Ordinance, and it was put in operation on the first of October. We realized from the start that it was badly needed, as this condition was one of the most necessary things for the city to take

hold of and dispose of the garbage. We had considerable difficulty in working out a scheme that would prove satisfactory to the citizens, and after three months of constantly changing the workings of the collection, we feel confident that the new bids for the year will allow us to collect the garbage from all the points in the city at least twice a week. This will be inaugurated immediately upon the signing of the bids.

### RESTAURANTS

Our restaurants have been kept in a good sanitary condition this year and we have had no trouble of a serious nature with them. They all seemed glad to have the health department work in co-operation with them, and our suggestions have all been followed out. The summary of work on restaurants:

Food unprotected.....	4
Refrigerator unsanitary.....	1
Better disposal of refuse.....	1

### CONDEMNED FOODS

We have this year ordered destroyed the following:

Canned Loganberries.....	40 cases
Canned Corned Beef.....	3 cases

### TUBERCULOSIS

This disease, still the enemy of all mankind, and claiming as its victim, the rich and the poor, shows a slight increase in the city, though the death rate shows a decrease. This is due to the cases of tuberculosis coming to treatment earlier, and to the efficient manner in which it is handled. It is the early diagnosis, and the strict adherence to treatment, and the isolation of the more advanced cases that will enable us to combat this terrible scourge.

I cannot say too much in praise of Miss Louise Hopkins, the Association's nurse and to Dr. Carl R. O'Brien, to whom must be given credit for their untiring efforts in helping out many of

the sufferers from this scourge. They have been unsparing in doing all in their power to help our city.

They maintain a free clinic every Saturday morning at the Public Health Station on York street, where needed persons may have examinations free of charge. Miss Hopkins follows the cases along in the homes, where she gives the people instructions on how to take care of themselves. This home work is most important as it helps very much in the stopping of the spread of the disease.

The Sanitarium where 30 beds are available is run in a very efficient manner under the supervision of Mrs. Deering. This institution deserves the public support, as the work that they are doing is invaluable to the city.

The cases in Bangor are as follows:

Ward 1.....	24
Ward 2.....	13
Ward 3.....	16
Ward 4.....	9
Ward 5.....	16
Ward 6.....	8
Ward 7.....	18

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### SCHOOL NURSES

The school nurses this year were taken over by the city. The work done by them has been of great value to the city. Their work of inspection of the children and the follow up work in the homes is proving to us that the health of the children is improving. No task is too small for them to undertake, and from the standpoint of health, many cases are taken in time to stop any serious spread of disease. With the addition of the dental clinic that is to be established in the City Hall will insure the needy children of the proper dental attention which is very important in regard to their health. I cannot say too much in praise of these nurses. Their work must continue.

The summary of their work for three months ending Dec. 31, 1921:

Individual inspection of children . . . . .	3541
Room Inspection . . . . .	2092
Excluded . . . . .	150
Home visits . . . . .	341
Miscellaneous visits . . . . .	269
Weighed and measured . . . . .	3152
Children underweight . . . . .	1344
Children 10% or more underweight . . . . .	230
Tonsils removed . . . . .	44
Glasses fitted . . . . .	73
Children having milk lunches . . . . .	1000

#### OPEN AIR SCHOOL

This year the open air school was started and the good work that is going on in this department is very apparent. There are 23 children now in this school, and they have their study periods, rest periods and periods for lunches. Many children will benefit from this school and the under-nourished child will gain rapidly. This innovation in the Bangor school system is one that was badly needed.

To all who have been interested in this school and have given both time and money to it, the city owes a debt of gratitude. The school must go on and enlarge, till quarters are available for all who seek admittance.

#### DISTRICT NURSE

The work of this department is increasing all the time. It is their good work in caring for so many acute and chronic cases among our citizens that helps in a great measure to further the good work of health. During the year, the district nurse made 2690 calls. When it is taken into consideration that many of these calls are late at night, it shows the interest that is taken in the work. Miss Bicknell has proved very valuable to the Health Department, both by her good work and valuable suggestions.

### BOY SCOUTS

We are indebted to Chief Arthur D. Marston and his Boy Scouts for their work in helping the health movement. They posted for us over one hundred signs calling attention to the law in regard to spitting. The Scouts also called our attention to many violations of the food regulations, and aided much in keeping us informed as to the condition of many places.

### KENDUSKEAG STREAM

There is a City Ordinance about dumping into this stream. The continual dumping of boxes and paper by certain people constitutes an unsightly condition. Through the Chamber of Commerce we have asked that this practice be stopped, and many have ceased to use this as a dumping ground. Again we call attention to this practice and ask that this habit be stopped. It gives our city anything but a good name, to see this mass of dump floating up and down with the tide.

### FIRST AID WORK

We conducted a First Aid Station during the Eastern Maine State Fair, and treated many cases. There was also conducted a First Aid Station during the Shriner's Day here. On all days in Bangor when there is a celebration, at which time the city is crowded with visitors, we work in conjunction with the Police Department, in being ready for any emergency that may arise. The summary of Emergency cases:

Treated at office.....	19
Treated at Bass Park.....	12

### NUISANCES

This year we have viewed 89 complaints for nuisance. Of these 52 were corrected and 37 were found without merit.

VENERAL DISEASES

This menace to public health is one that is hard to cope with. When one takes into consideration the widespread distribution, and the many phases which enter into the enforcement of it, it becomes very plain then that this is not one for enforcement for one year but for a life time. We have had at all times the active co-operation of the Chief of Police and the Sheriff's Department, and their aid has been invaluable. To Chief of Police Knaide and his department is due the thanks for his effective work in cleaning the city, and to Sheriff Fernandez and his deputies, whose good work stopped many places in the nearby resorts.

The summary:

Wasserman reactions . . . . .	37
Smears examined . . . . .	69

DISEASES

During the summer we had many cases of typhoid fever, coming to Bangor from camps and nearby towns. Bangor had 11 cases of this disease, that arose in Bangor families. There were three deaths from it in Bangor.

We had one case on Anterior Poliomyelitis reported that was brought to Bangor from Enfield. This case died here and we used all precautions and had no spread from it.

We had 22 cases of Diptheria reported and no deaths. There were 14 more cases that were caused from out of town sources.

The following have been reported:

Chickenpox . . . . .	16 . . . . .	0
Diptheria . . . . .	22 . . . . .	0
Erysipeleas . . . . .	5 . . . . .	0
Measles . . . . .	9 . . . . .	0
Meningitis . . . . .	6 . . . . .	2
Pneumonia . . . . .	55 . . . . .	32
Scarlet Fever . . . . .	15 . . . . .	1
Septic Sore Throat . . . . .	2 . . . . .	0

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CITY OF BANGOR

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Typhoid Fever.....	11.....	3
Tuberculosis.....	104.....	17
Whooping Cough.....	14.....	0

BIRTHS

The total number of births, 553

Harry D. McNeil, M. D.,

Health Officer.



## Report of Plumbing Inspector

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*To the Health Officer:—*

There have been 405 permits given out during the ten months ending December 31, 1921, for the following work:

### WARD I

New Toilets.....	16
Bath Tubs.....	8
Lavatories.....	10
Sinks.....	13
Wash Trays.....	8
Soda Fountains.....	3
Old Sink Traps renewed.....	15
Old Tiled Drains replaced with iron pipes.....	6
Old Soil Pipes extended through roof.....	4
Sewers connected with City sewer.....	5

### WARD II

New Toilets.....	19
Bath Tubs.....	12
Lavatories.....	19
Sinks.....	12
Wash Trays.....	3
Soda Fountains.....	3
Refrigerators.....	3
Sewers connected with City sewer.....	3
Sink Traps changed.....	8
Soil Stack extended through roof.....	3
Old Hopper Closet changed to tank.....	8

### WARD III

New Toilets.....	30
Bath Tubs.....	15

Lavatories.....	13
Sinks.....	14
Wash Trays.....	6
Sewers connected with City sewer.....	21
Refrigerator waste connected with sewer.....	6
Old Sink Traps changed.....	12
Old Tile Drain Pipe connected with soil pipe.....	4
Old Hopper Closets changed to tanks.....	6
Old Soil Stacks extended through roof.....	6

## WARD IV

New Toilets.....	29
Bath Tubs.....	22
Lavatories.....	22
Sinks.....	17
Refrigerators.....	3
Wash Trays.....	8
Sewers connected with City sewers.....	16
Old Hopper Closets changed to tanks.....	4
Old Sink Traps changed.....	14
Tile Drains changed to soil pipes.....	6
Soil Stacks extended through roof.....	6

## WARD V

New Toilets.....	29
Bath Tubs.....	20
Lavatories.....	12
Sinks.....	12
Refrigerators.....	6
Wash Trays.....	7
Sewers connected with City sewers.....	10
Old Hopper Closets changed to tanks.....	4
Old Tile Drain changed to iron pipe.....	6
Old Soil Pipe Stacks extended through roof.....	8
Old Sink Traps changed to cast iron pipes.....	14

## WARD VI

New Toilets.....	23
Bath Tubs.....	16
Lavatories.....	17

Sinks.....	22
Refrigerators.....	7
Wash Trays.....	10
Sewers connected with City sewer.....	16
Old Sink Traps renewed.....	18
Old Hopper Closets changed to tanks.....	3
Old Soil Stacks extended through roof.....	4
Old Tile Drain changed to cast iron pipes.....	4

## WARD VII

New Toilets.....	22
Bath Tubs.....	19
Lavatories.....	16
Sinks.....	12
Refrigerators.....	6
Wash Trays.....	9
Sewers connected with City sewer.....	14
Old Sink Traps changed.....	10
Old Hopper Closets changed to tanks.....	6
Old Soil Stacks extended through roof.....	4
Old Tile Drain changed to iron soil pipes.....	6

## NEW SEWERS

	Ft.
Norway Road.....	788
Fourth Street.....	187
Mt. Hope Avenue.....	135
Parkview Avenue.....	407
Drummond and Nelson Streets.....	1000
Hammond and Webster Ave.....	890
Kineo Street.....	300
Katahdin Street.....	400
Plaisted Street.....	483
Stone Street.....	460
Center Street.....	25

During the past year I have made 1,869 inspections, on both old and new work and complaints.

Respectfully submitted,

David W. Mackie,

Plumbing Inspector.

## Report of the Harbor Master

---

*To the Mayor and City Council of the City of Bangor:*

Gentlemen:

The Harbor Master submits his report for the year 1921. The ice left the river Tuesday, March 15th, and the port closed to navigation, Thursday, December 22nd, 1921.

Open to navigation 282 days.

During this time 447 vessels arrived, 288 steamers, 37 schooners, 78 barges, 16 motor schooners, 11 motor barges, 2 steam yachts, 5 gasolene yachts, 2 U. S. Eagle boats, 3 U. S. Lighthouse tenders, 1 U. S. Submarine chaser and 4 U. S. Cutters, with a gross tonnage of 522,909 tons.

During the year merchandise arrived by vessel as follows:

91,728 tons bituminous coal  
86,412 tons anthracite coal  
167,133 barrels gasolene  
71,500 barrels kerosene  
4,700 barrels cement  
1,015 tons fertilizer  
6,450 bushels salt  
90 tons torpedo gravel  
100 tons roofing gravel  
40,000 feet lumber  
38 cords spool wood  
16 cases codfish

December 1st, there were nine barges loaded with about 14,000 tons of anthracite coal on the way to Bangor, we needed the coal, and on request of the Chamber of Commerce, the United States Cutter Ossipee was sent here to assist in keeping the river open. The Ossipee arrived December 5th and stayed till the barges arrived, discharged and towed out of the river.

Respectfully submitted,

Edwin Lord,

Harbor Master

## Report of City Electrician

---

*To His Honor, the Mayor and City Council of Bangor:*

Gentlemen:

The City Electrician herewith submits his report for the period from March 1, 1921, through December 31, 1921.

The cost of expenditures for the different branches of this department are as follows:

Salaries . . . . .	\$18,157.14
Fire Alarm . . . . .	184.54
Police Signal . . . . .	50.81
Team Equipment . . . . .	63.22
Inside Wire . . . . .	275.83
Line Maintenance . . . . .	3,092.45
Power Station . . . . .	2,369.40
Sub-Station . . . . .	265.48
Coal and Wood . . . . .	400.89
Street Lamps . . . . .	1,089.19
Lamps in Buildings . . . . .	520.18
Arc Lamps . . . . .	724.37
Miscellaneous . . . . .	309.38
Auto Maintenance . . . . .	2,309.78
Flash Boards . . . . .	263.69
Insurance . . . . .	646.05
Under Ground . . . . .	809.60
Total . . . . .	\$31,532.00

### SUMMARY OF PERMANENT WORK DONE IN 1921

Extending Street Lights on Odlin Road . . . . .	\$231.27
Extending Street Lights, Fuller and Cram Roads . . . . .	895.50
Exchange Street—New Lighting System . . . . .	2,998.03
Repair work on Lines (at time of B. R. & E. work) . . . . .	1,500.00
Needed Repairs on Equipment at Waterworks . . . . .	1,530.08
Total . . . . .	\$7,154.88

## MATERIALS USED ON STREET LIGHT EXTENSIONS

## ODLIN ROAD

7 Fixtures, at \$11.68.....	\$81.76
605 lbs. No. 6 W. P. Wire, at 19 cents.....	114.95
24 Two Pin Arms, at 62 cents.....	14.88
48 Porcelain Insulators, at 22 cents.....	10.56
24 Pr. Braces, at 26 cents.....	6.24
24 Thru Bolts, at 12 cents.....	2.88
Total.....	<u>\$231.27</u>

## FULLER ROAD AND CRAM ROAD

14 Fixtures, at \$11.68.....	\$163.52
1451 lbs. W. P. Wire, at 19 cents.....	275.69
44 Two Pin Arms, at 62 cents.....	27.28
88 Porcelain Insulators, at 22 cents.....	19.36
44 Pr. Braces, at 26 cents.....	11.44
44 Thru Bolts, at 12 cents.....	5.28
Total.....	<u>\$502.57</u>

## SUMMARY

Odlin Road.....	\$231.27
Fuller and Cram Roads.....	502.57
21 60 C. P. 6. 6. Amp. Series Lamps, at 73 cents.....	15.33
Other Fixtures Installed, 20 at \$11.68.....	233.60
Labor.....	144.00
Total cost of extensions.....	<u>\$1,126.77</u>

## STREET LIGHTS INSTALLED IN 1921

Odlin Road.....	8
Cram Road.....	4
Fuller Road.....	10
Elizabeth Avenue.....	1
Russell Street.....	1
Ohio Street and Jordan Road.....	1
Griffin Road.....	1
Sixteenth Street.....	1
Fountain Street.....	1

Upper Maple Street.....	1
Broadway, beyond School.....	1
Old Fixtures renewed.....	8
	<hr/>
Total.....	38

### EXCHANGE STREET LIGHTING SYSTEM

The new lights on Exchange Street were purchased by the merchants and property owners through the efforts of the Bangor Chamber of Commerce. The total cost of installation was \$2,998.03. Of this amount, \$2,526.93 was solicited.

### POWER STATION

A year ago the power plant was put in first class order but this year we found that we had to do a considerable amount of the work over, owing to the machinery being old and worn out and improperly installed.

Our steam plant is absolutely no good and should be replaced by a Diesel oil engine or tied in with the Bangor Railway & Electric Co. in case of emergency or breakdown. Owing to the peculiar situation of the station being at the head of tide water, we have to pull circuits at times to get by, which is very inconvenient. If we had a suitable auxiliary or were tied in with the Bangor Railway & Electric Co., this trouble would be eliminated.

### SUB-STATION

There has been very little trouble with this department. The total output from this station for the period ending December 31, 1921, was 1,227,790 Kilo Watt Hours.

### FIRE ALARM

This department has given very little trouble in the past year and outside of the old boxes is in fairly good shape.

I would recommend that some of the boxes be renewed this year as a good many of them have been in service a long time.

## POLICE SIGNAL

There has been no extension in this system, and outside of the ordinary wear and tear, it has given very little trouble.

In closing, I wish to thank His Honor, the Mayor, the City Council, the heads of the different departments, the Bangor Railway and Electric Co., the Telephone and Telegraph Company, my Committee and members of my crew.

Respectfully submitted,

M. Gallupe,

City Electrician.

January, 1922.



## STOCK AND TOOLS

## At Sub-Station

## LAMPS

1 Westinghouse Flame Arc Lamp	Repair parts for Magnetite
3 Magnetite Lamps	Arcs
114 V. Tungstone Lamps	200 Lower Electrodes
80 114 V. Lamps, Carbon	20 Outer Globes
Repair parts on G. E. Form 3	12 6 x 12 R. I. Balls
Arcs	1 Case Inner Globes
50 Upper Electrodes	4000 Carbons ( $9\frac{1}{2} \times \frac{1}{2}$ )

## FIXTURES

2 Series Clusters

## MOTORS

2  $\frac{1}{2}$ -H. P. 3 phase 110 V.                      1-H. P. 3 phase 220 V.

## INSIDE WIRING MATERIAL

10 No. 3 Magnet Wire	4 Flush Switches
8 Sawyer Mann Cutouts	3 Switches J. K.
1 Electric Lock	10 lbs. Solder
50 Metal Molding Fittings	20 Taplets Type U
1 Hartford Time Switch	50 W. P. Entrance Bushings
25 Rosettes	6 Insulating Joints
25 Sockets Key	12 Insulating Rings
22 Switch Plates	3 Cast Iron Junction Boxes
10 Switch Bases-Porcelain	

## FIRE ALARM SUPPLIES

10 D. & W. Cutouts	1 Turtle Gong
12 Tappers	9 Lighting Arresters No. 746 Union
15 Matthews Joints	
2 Manhole Covers	12 Outer Door Locks
6 Auxiliary F. A. Boxes	10 Inner Door Locks
1 Register and Take up Reel	4 Cole Key Guards

## FUSES

1 Expulsion Fuses	90 Cartridge Fuses, 50 Amp.
100 Cartridge Fuses, 3 Amp.	4 Cartridge Fuses, 65 Amp.
60 Cartridge Fuses, 10 Amp.	10 Cartridge Fuses, 175 Amp.
70 Cartridge Fuses, 15 Amp.	5 Cartridge Fuses, 200 Amp.
60 Cartridge Fuses, 20 Amp.	2 Cartridge Fuses, 400 Amp.
90 Cartridge Fuses, 25 Amp.	70 Fuse Plugs Casings
90 Cartridge Fuses, 30 Amp.	25 Glass Tubes
10 Cartridge Fuses, 40 Amp.	100 Fire Alarm Fuses

## LINE MATERIAL

200 lbs. No. 6 Weather Proof Wire	1 Pitchfork
1 Mile No. 10 Iron W. P. Wire	1 Barn Shovel
10 Series Recept.	3 Man Hole Gates
10 Series Sockets	Duct Rods
31 Pole Steps (Iron)	3 Extension Ladders
33 Caps for Iron Poles	1 Drill Attachment
1 Bbl. Wood Top Pins	1 Hand Saw
2 Bags Wood Pins	1 Stillson Wrench
100 Six Pin Cross Arms	1 Nail Puller
48 Two Pin Cross Arms	1 Axe
200 Porcelain Insulators	1 Metal Molding Punch
6 Outrigging Braces	6 Brick Drills
4 Guy Anchors	1 Anvil and Forge
200 Iron Braces	1 Grindstone
60 Eye Bolts	2 Die Stocks
200 Thro Bolts $\frac{7}{8}$ inch	1 Lathe
150 Thro Bolts $\frac{3}{8}$ inch	1 Die Set
100 Space Bolts	2 Vises
50 Pierce Brackets	1 Pipe Vise
1 Transformer 25 K. V. A.	1 Bit Brace
1 Transformer 3 K. V. A.	6 Bits
10 P. & S. Transformer Cutouts	1 Breast Drill
5 G. E. Transformer Cutouts	1 Power Drill
9 Iron Sight Sticks	2 Magnetoes
6 Rock Drills	1 Torch
1 Dead Man	1 Hand Hammer
3 Pikes	2 Screw Drivers
3 Tamping Bars	3 Hatchets
1 Tamping Moll	3 Wrenches
2 Scoops	1 Small Steel Bar
4 Shovels	2 Sets Come Alongs
1 Cant Dog	1 Set Blocks

3 Pick Axes	2 Sets Blocks and Rope
2 Digging Bars	1 Snatch Block
1 Post Hole Digger	

## STATION EQUIPMENT

2 G. E. Potential Transformers	1 Field Rheostat
2 Westinghouse Current Transformers	1 Westinghouse Graphic Recording Watt Hour Meter
3 Horn Cap Lightning Arrestors	1 Westinghouse Polyphase Watt Meter, Portable
1 Westinghouse Oil Switch 2 P. T. D.	2 Westinghouse Current Transformers
1 G. E. Oil Switch 3 P. D. T.	2 Thompson A. C. Ammeters—15 Amp.
1 G. E. Oil Switch 3 P. D. T.	1 Thompson A. C. Ammeter—200 Amp.
1 A. C. Lightning Arrestors, Type G. E.—F2	1 Thompson Wattmeter
8 A. C. Lightning Arrestors, Type G. E.—S	1 Weston D. C. Voltmeter
8 Porcelain Barriers	1 Weston D. C. & A. C. Voltmeter
72 Carbons	2 Pr. Rubber Globes
1 H. C. Type Alternator and Rheostat	

## TEAM EQUIPMENT

1 Horse	1 Two Wheel Pole Wagon
1 Harness	1 Sled
1 Halter	2 Carriage Wrenches
2 Blankets	2 Curry Combs
1 Express Wagon	2 Brushes

## AUTOMOBILE

1 Ford Automobile	1 Search Light
1 Set Weed Tire Chains	1 One-ton Ford Truck

## MISCELLANEOUS

1 Branding Iron	2 Stable Brooms
1 Lantern	1 Push Broom
2 Mops	2 Brooms
1 Feather Duster	2 Pails

## OFFICE

2 Roll Top Desks	1 Drafting Table
1 Typewriter Desk	6 Chairs
1 L. C. Smith Typewriter	1 Leather Couch
2 Tables	

## STOCK AND TOOLS—POWERSTATION

1 Set Bolt Dies, cuts $\frac{1}{2}$ inch, 5-8 inch, 3-4 inch, 7-8 inch, 1 inch.	1 14 inch Wescott Wrench
Machine Taps, 2 5-8 inch, 2 3-4 inch, 3 7-8 inch, 2-1 inch, $\frac{1}{2}$ inch	1 10 inch Wescott Wrench
Twist Drills, 10-38, 12-32, 13-32, 14-38, 16-38, $\frac{1}{2}$ inch, 5-8, 13-16, 29-38, 1 inch	1 8 inch Wescott Wrench
1 Pr. 6 inch Outside Calipers	2 24 inch Monkey Wrenches
1 Pr. 6 inch Inside Calipers	1 12 inch Monkey Wrench
1 12 inch Hack Saw Frame	1 10 inch Monkey Wrench
1 12 inch Hack Saw Blade	1 1 inch Fork Wrench
1 Pr. 15 inch Tin Snips	2 7-8 inch Fork Wrenches
2 Babbitt Ladles	1 3-4 inch Fork Wrench
1 Blow Torch	10 Governor Wrenches
1 12 inch Ratchet Brace	3 Socket Wrenches
1 Breast Drill	4 Spanner Wrenches
4 5-8 inch Cold Chisels	1 Emery Wheel Tool Grinder
1 $1\frac{1}{2}$ lb. Hammer	1 Electric Emery Grinder for Collector Rings
1 Bench Vise	1 Electric Drill Femco No. C
	1 Portable Rest and Tool Holder for Turning Commutator
	1 Compline Jack

## WRECKING TOOLS

1 6 inch Screw Jack	1 Set of Block and Tackle
2 24 inch Hydraulic Jacks	50 ft. 1 inch Rope
2 1 ton Chain Hoists	2 3-4 inch Hand Lines
1 2 ton Chain Hoist	2 $\frac{1}{2}$ inch Steel Cable Slings
1 4 ton Chain Hoist	50 ft. 5-8 inch Steel Cable
1 $\frac{1}{2}$ ton Chain Hoist	1 Snow Shovel
2 5 ft. steel bars	1 Lawn Mower
2 3 ft. steel bars	6 Rack Rakes

## POWER STATION

1 Set Pipe Dies, cuts 1-4 inch to 1 inch	1 4 Pipe Vise
	1 36 inch Stilson Wrench

1 Set Pipe Dies, cuts 1 inch to 2 inches	1 24 inch Stilson Wrench
Pipe Taps, 1-8 inch, 3-4 inch, $\frac{1}{2}$ inch	2 14 inch Stilson Wrench
	2 24 inch Chain Tongs

## BLACKSMITH TOOLS

1 Forge with Blower	1 14 lb. Hammer
1 7 lb. Hammer	1 18 lb. Hammer

## CARPENTER TOOLS

1 24-inch Steel Square	1 Extension Bit
1 Pr. 8 inch Dividers	1 7-8 inch Ship Auger
1 24 inch Hand Saw	1 1 $\frac{1}{2}$ inch Wood Gauge
1 Bit Brace	1 Hammer
4 Wood Bits	

## BOILER TOOLS

2 Coal Shovels	40 ft. 6 ply Steam Hose
1 Steam Tube Cleaner	50 ft. Garden Hose
1 Weindad Tube Cleaner	1 Boiler Rake
30 ft. Metal Steam Hose	1 Boiler Hoe

## ACCOUNT OF STOCK

$\frac{1}{2}$ bbl. Gear Grease	1 lb. 3-8 inch Spiral Packing
$\frac{1}{2}$ bbl. Cylinder Oil	1 lb. $\frac{1}{2}$ -inch Spiral Packing
1 bbl. Engine Oil $\frac{1}{2}$ Heavy	12 Leather Cups for Governor
$\frac{1}{2}$ bbl. Engine Oil, Light	1 Female Step for Water Wheel
35 Gal. Governor Oil	3 Male Steps for Water Wheel
20 Gal. Kerosene Oil	1 Pr. 8 inch Pliers
$\frac{1}{2}$ bbl. Cup Grease	1 12 inch Screw Driver
$\frac{1}{2}$ Bale Waste	6 2 $\frac{1}{2}$ x 3-4 Cap Screws
15 lbs. Powdered Graphite	12 2 x $\frac{1}{2}$ Cap Screws
Meter Paper	12 2 $\frac{1}{2}$ x 5-8 Cap Screws
40 lbs. Genuine Babbitt	8 1 $\frac{1}{2}$ x $\frac{1}{2}$ Cap Screws
30 lbs. No. 4 Babbitt	12 3-8 x 2 Cap Screws
12 Oil Screens for Filter	5 3-8 x 1 Cap Screws
$\frac{1}{2}$ Doz. 10-inch Bast. Flat Files	5 4 $\frac{1}{4}$ x $\frac{1}{2}$ Machine Bolts
5 Sticks Commutator Dressing	12 5 x 7-8 Machine Bolts
1 lb. 1-4-inch Spiral Packing	4 8 x 12 Machine Bolts



Report of the Public Library



# BOARD OF MANAGERS

1922

Albert R. Day, (Mayor) <i>President</i>	}	Trustees of Hersey Fund
Arthur Chapin		
Frederic W. Adams	}	Representing Bangor Mechanic Association
William F. Curran		
Thomas G. Donovan (City Treasurer)		
Daniel A. Robinson, <i>Vice President</i>		
Bernhard Pol		
Harry D. Benson		
Franklin E. Bragg		

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## TREASURER

Frederic W. Adams

## SECRETARY

Elmar T. Boyd

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## COMMITTEES

*Auditing*, Mr. Benson

*Finance*, Mr. Bragg

*Library and Purchasing*, Dr. Robinson, Mr. Chapin, Mr. Benson

*Repair of the Building*, Mr. Curran, Mr. Donovan

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## OFFICERS OF THE LIBRARY

### LIBRARIAN

Elmar T. Boyd

### Assistants

Miss Carrie C. Mayberry

Miss Eva E. Rand

Miss Carrie F. Rich

Miss Christine L. Burnham

Miss Winifred L. MacKay

Miss Olive M. Smythe

Miss Edna G. Dunham

Miss Margaret E. Sullivan

Mrs. Hortense Harding Davis

Miss Dorothy Smith

### Janitor

Timothy E. Hollihan

### Assistant Janitor

Michael T. Connelly

## REPORT OF THE TRUSTEES OF THE INCOME OF THE HERSEY FUND

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Bangor, January 24, 1922.

*To the City Council of the City of Bangor:*

The Trustees of the Income of the Hersey Fund submit their annual report. They have received from the City Treasurer the sum of four thousand dollars (\$4,000) in quarterly payments, which have been paid to the Treasurer of the Board of Managers of the Bangor Public Library.

They also submit, herewith, the annual reports of the Treasurer of the Board of Trustees of the Bangor Public Library, and the Treasurer of the Board of Managers of said Library, and of the Librarian.

A. R. Day  
T. G. Donovan  
Wm. F. Curran  
F. W. Adams

Trustees of the Income of the Hersey Fund.



## THE LIBRARY BOARDS

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Under terms of the will of Hon. Samuel F. Hersey, who died in 1875, the City of Bangor was left a certain part of his estate, to become available in 1900 as a fund whose income should be used "for the promotion of education, the health and good morals of the citizens." The sum of \$100,000 was accepted by the City in 1882 in full of all claims against the Hersey estate, and the city government voted to use the entire sum for the establishment of a Public Library. The management of the legacy was entrusted to a board of five members, known as the "Trustees of the Income of the Hersey Fund," and consisting of the Mayor, the City Treasurer and three others, one elected each alternate year by the City Council for a term of six years. (Ordinance, as now in force, printed at end of 1916 Report).

These Trustees agreed with the "Bangor Mechanic Association" (which had for many years maintained a library and reading room for its members) to combine interests and establish the "Bangor Public Library," with the 20,000 volumes of the Mechanic Association as a nucleus, and the \$12,000 of its invested funds and the \$100,000 Hersey Fund as endowments. The "Trustees of the Income of the Hersey Fund" and four representatives chosen annually by the "Bangor Mechanic Association" constitute the "Board of Managers of the Bangor Public Library." (The text of this agreement printed at the end of 1916 Report).

When in 1893 the question of erecting a library building began to be agitated, the "Board of Managers" was incorporated under State law as the "Board of Trustees of the Bangor Public Library" with power to acquire and hold real estate; the personnel of the two bodies being the same but their functions quite distinct.

The Bangor Mechanic Association maintains its organization, holds an annual meeting the second Tuesday in January and the President, Vice-President, Secretary and Treasurer elected at that time serve as members of the Board of Managers of the Bangor Public Library. The Association also administers the Mechanic Association Fund, its Treasurer turning the income over to the Library Board of Managers.

The Trustees also administer the J. F. Patten fund of \$4,000, bequeathed by Mrs. Grace D. Patten in 1900, in memory of her husband, and the Luther H. Peirce Fund of \$75,000, bequeathed in 1915; also the "Art Fund" which is the insurance on art objects destroyed in 1911, set aside in 1914 with that designation.

By the will of the late Frederick W. Hill the Library receives the income of one-fourth of the residue of his estate.

## Reports of the Treasurer

FREDERIC W. ADAMS, Treasurer,

In account with the Trustees Bangor Public Library

*Dr.*

1921

Jan.	15	Balance.....	\$2,667.40
	16	Div. American Tel. & Tel. Co.....	1,666.00
Apr.	13	F. W. Hill Estate.....	325.00
	16	Div. American Tel. & Tel. Co.....	1,666.00
May	18	Estate of G. S. Lynde.....	2.00
	31	Jacksonville Elec. coupons.....	50.00
		Racine Water coupons.....	25.00
		U. S. Fourth Liberty Bond.....	42.50
June	1	Sale Rights, American Tel. & Tel. Co.	414.83
July	13	F. W. Hill Estate.....	400.00
	16	American Tel. & Tel. Co.....	1,874.25
Oct.	14	Estate of F. W. Hill.....	1,740.00
	17	American Tel. & Tel. Co.....	1,874.25
Nov.	9	Jacksonville Elec. coupons.....	50.00
		Racine Water coupons.....	25.00
		U. S. Fourth Liberty Bond.....	42.50
1922			
Jan.	4	Merchants Nat. Bank, Int.....	22.67
			\$12,887.40

*Cr.*

1921

Jan.	20	To Book Fund per vote.....	\$2,500.00
Mar.	8	L. W. Somers Co., Inc., Insurance....	5.44
	10	Geo. W. Reid.....	112.89
Apr.	30	Transferred to Book Fund.....	1,500.00
May	26	Wood & Bishop Co.....	118.00
June	27	Snead & Co.....	1,890.00
	30	E. T. Boyd, Expenses.....	57.72
July	20	Transferred to Book Fund.....	1,500.00
Aug.	2	Blake, Barrows & Brown, Treas. Bond.	12.50
	19	Morse & Co.....	160.00
	31	Snead & Co.....	845.00
Oct.	7	A. J. Loder.....	12.00
	25	Savings Dept. Merchants Nat. Bank..	900.00

		Transferred to Book Fund.....	1,300.00
	31	E. T. Boyd, Expenses.....	16.75
Nov.	10	Underwood Typewriter Co.....	106.50
		S. L. Smith Book Plate.....	150.00
	16	Queen City Granite Co.....	236.25
	16	McPherson & Barrows.....	480.68
Dec.	12	Francis T. Casey.....	148.00
	27	L. W. Somers Co.....	16.00
		F. W. Adams, Treasurer.....	200.00
		E. T. Boyd, Secretary.....	200.00
1922			
Jan.	4	C. H. Babb & Co.....	\$75.10
	11	R. H. Kavanaugh.....	45.43
	16	Balance.....	299.14
			\$12,887.40

Respectfully submitted,

FREDERIC W. ADAMS,

Treasurer.

January 16, 1922.

**Schedule of Securities Held by the Treasurer of  
Bangor Public Library**

Jacksonville Electric Co. 5% bonds, 1927.....	\$2,000.00
Racine Water Co. 5% bond, 1931.....	1,000.00
750 Shares American Tel. & Tel. Co. stock received in exchange for Chicago Tel. Co. stock from Luther H. Peirce estate....	75,000.00
83 Shares American Tel. & Tel. Co. stock (by purchase).....	8,300.00
U. S. Fourth Liberty Bonds, 4½%.....	2,000.00
	\$88,300.00

I have examined the accounts of Frederic W. Adams, Treasurer of the Trustees of Bangor Public Library and find same correctly cast and properly vouched and the balance, \$299.14, on deposit with the Merchants National Bank of Bangor and securities, \$88,300. in his custody as stated. I also find on deposit in savings department Book No. 601, of Merchants National Bank, \$906. F. W. Hill Estate, set apart as principal.

Harry D. Benson,

Auditor.

Bangor, Maine, January 16, 1922.

FREDERIC W. ADAMS, Treasurer of Patten Fund,  
In account with the Trustees of Bangor Public Library

*Dr.*

1921			
Jan.	15	Balance.....	\$126.28
May	31	B. & A. R. R. coupon.....	25.00
		Milwaukee Gas Light Co. coupon....	20.00
Nov.	9	B. & A. R. R. coupon.....	25.00
		Iowa Loan & Trust Co., coupon....	50.00
		Milwaukee Gas Light Co. coupon....	20.00
1922			
Jan.	9	Iowa Loan & Trust Co. coupon.....	50.00
			<hr/>
			\$316.28

*Cr.*

1921			
Mar.	8	Dillingham's.....	\$ 2.68
June	7	John Clark Co.....	20.00
		Dillingham's.....	50.00
Sept.	10	Dillingham's.....	18.90
Oct.	7	Dillingham's.....	9.50
Nov.	10	Dillingham's.....	19.31
Dec.	10	Dillingham's.....	10.80
1922			
Jan.	7	Dillingham's.....	31.50
	16	Balance.....	153.59
			<hr/>
			\$316.28

Respectfully submitted,  
FREDERIC W. ADAMS,

Treasurer.

The following shows the investment of Patten Fund for the Bangor Public Library in the custody of Frederic W. Adams, Treasurer:

Bangor & Aroostook R. R. Co., Piscataquis Division	
5% bond No. 76 due Jan. 1, 1943. . . . .	\$1,000.00
Iowa Loan & Trust Co., 5% bonds, 1922. . . . .	2,000.00
Milwaukee Gas Co., 4% bond, 1927. . . . .	1,000.00
	————— \$4,000.00
Cash balance in Merchants National Bank of Bangor: . . . . .	\$153.59

Respectfully submitted,  
**FREDERIC W. ADAMS,**  
 Treasurer.

I have examined the accounts of Frederic W. Adams, Treasurer of the Patten Fund, of the Bangor Public Library and find cash on deposit as stated of \$153.59 and securities \$4,000. as listed above.

Harry D. Benson,  
 Auditor.

Bangor, Maine, January 16, 1922.

FREDERIC W. ADAMS, Treasurer of the Art Fund,  
In account with the Trustees of Bangor Public Library

1921			
Jan.	15	Balance deposited in Bangor Savings Bank.....	\$762.10
Oct.	1	Dividends April and October, Bangor Savings Bank.....	30.78
			\$792.88

Respectfully submitted,  
FREDERIC W. ADAMS,  
Treasurer.

I have examined the accounts of Frederic W. Adams, Treasurer of the Art Fund of Bangor Public Library, and find \$792.88 on deposit with the Bangor Savings Bank as stated.

Harry D. Benson,  
Auditor.

Bangor, Maine, January 16, 1922.

FREDERIC W. ADAMS, Treasurer

In account with Managers of Bangor Public Library

GENERAL ACCOUNT

*Dr.*

1921	
Jan.	15 To cash on deposit. . . . . \$3,720.04
1922	
Jan.	16 Receipts for year ending this date:
	City of Bangor on account of ap- propriations. . . . . 12,841.48
	City of Bangor on account of interest, Hersey Fund. . . . . 4,000.00
	Income from Bangor Mechanic Asso- ciation. . . . . 720.00
	Fines collected by Librarian, cards and sundries. . . . . 737.52
	Interest on deposit. . . . . 13.99
	————— \$22,033.03

*Cr.*

1922	
Jan.	16 Disbursements for year ending this date:
	Salaries, Librarian, Assistants, Sub- stitutes, Janitor, and extra help. . . . . 14,512.74
	Heating, 1921. . . . . 3,349.30
	Sundries. . . . . 59.31
	Supplies. . . . . 2,264.75
1922	
Jan.	16 Balance. . . . . 1,846.93
	————— \$22,033.03

Respectfully submitted,  
FREDERIC W. ADAMS,  
Treasurer.

I have examined the accounts of Frederic W. Adams, Treasurer of the Board of Managers of Bangor Public Library, (General Account) and find same correctly cast, properly vouched and the balance, \$1,846.93, on deposit with the Merchants National Bank of Bangor.

Harry D. Benson,  
Auditor.

Bangor, Maine, January 16, 1922.

FREDERIC W. ADAMS, Treasurer,

In account with the Managers of Bangor Public Library

BOOK FUND

*Dr.*

1921			
Jan.	15	Balance.....	\$31.99
1922			
Jan.	16	Receipts for year ending this date:	
		Appropriations by State of Maine....	\$500.00
		Appropriations by Trustees for Book Fund.....	6.800.00
		Interest on Deposit.....	18.36
			<hr/>
			\$7,350.35

*Cr.*

Expenditures for Books:

		Books, pamphlets, etc.....	\$4,290.93
		Periodical subscriptions.....	525.56
		Binding and repairs.....	1,959.23
		Transportation, express, freight, post- age, etc.....	178.13
1922			
Jan.	16	Balance.....	396.50
			<hr/>
			\$7,350.35

Respectfully submitted,

FREDERIC W. ADAMS,

Treasurer.

I have examined the account of Frederic W. Adams, Treasurer of the Book Fund of Bangor Public Library, and find same correctly cast, properly vouched and the balance, \$396.50, on deposit in the Merchants National Bank of Bangor.

Harry D. Benson,

Auditor.

Bangor, Maine, January 16, 1922.



## Report of the Librarian

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*To the Board of Managers of the Bangor Public Library:*

I have the honor to submit the 39th annual report of the Bangor Public Library for the year 1921.

The year has been one of progress along conservative lines. That this should be possible under a new administration is due in large measure to the splendid organization of the library, a legacy from Mr. Flagg, and to the hearty cooperation of every member of the staff, devoted as they are to the library's best interests. There has been no radical change from the past policy. There are, however, certain outstanding features of the year's work, some achievements, some changes of policy made in the light of recent events, some plans for future development which may be of interest to you and to the friends of our library.

The number of books lent for home use has increased from 103,285 in 1920 to 124,446 in 1921, an increase of 21,161 or over 20 per cent. This is an entirely unprecedented yearly growth. Moreover, the increase is not an increase in the use of fiction at the expense of non-fiction. The percentage of fiction circulated for 1921 is the same as the percentage for 1920. An examination of Appendix H, which tabulates growth in circulation from May, 1911, through 1921, shows no comparison with this increase in a normal year. To be sure the year 1914 shows an increase of 17,764. This is the nearest approach to last year's record, but this is to be accounted for by the fact that it was the first year in the new building. The year 1921 has been a normal year with an abnormal increase. It may be interesting and helpful to inquire into the reasons for this growth.

The past year has been a year of recovery from war conditions. This has manifested itself in a much greater appreciation of things educational than ever before. Schools and colleges are crowded. It is natural that this appreciation of educa-

tion should appear in the use of the people's colleges, the public libraries of the country. More than ever before are the mass of the people coming to understand that the library is for them, that it is not simply an institution where the educated and the cultured may gratify their tastes, but a place where those whose education is limited may receive help and guidance to the real education which comes from the reading and study of good books. So librarians all over the country are reporting large increases in circulation.

Locally there are some special reasons for our increase. First, the new book-cases built just outside the delivery desk, holding about five hundred volumes, have made much easier for the public the problem of book selection. By a judicious changing of these books from time to time, it is possible within a few months to bring to the attention of our patrons a large number of the really active books in our library. The public appreciate the new cases. Although our library can never be, from the construction of the building, a real open-shelf library it would be possible to extend further in the delivery room and possibly into the reading room the principle of open shelves. I would recommend a cautious extension of such cases.

Second, we have made large use of newspaper publicity. Paid advertisements were run during the summer months in the Saturday issues of our daily papers and especially important library happenings were brought before the public during the fall and winter months by the same method. In addition, reporters' "stories" have appeared frequently in the local papers. These locals are read by all where perhaps only the few who are especially interested read our Saturday night letter to the Commercial. By these methods the library has been kept before the people.

Third, there has been a rather decided change in the policy of book purchase. This change is justified, I believe, by the prospect of a largely increased book fund in the not distant future, for the income from the Hill Fund under the terms of the will must be spent for the purchase of books. In the past it has been necessary to spend a goodly part of each year's book money on books which belong in a well regulated library and which

were in our library before the fire of 1911. In the light of the fact that we shall soon be able to buy all such books, it has seemed best to buy now those books which are likely to meet the immediate demand. Careful attention has been given to the requests of the reading public. Every effort has been made to act quickly where the need was immediate; so perhaps we have been able to satisfy more fully than usual the requests of clubs and individuals. We would not approve this policy to the degree which we are following it under ordinary circumstances but only under the special and unusual conditions which confront us. To summarize our policy of book purchase, then, it is to buy now, books which will be used now, leaving to the time when we shall have more money, the complete rounding out of our collection.

A word of caution may not be out of place here. The Bangor Library has the reputation both at home and abroad of being a rich library before it has really become rich. It is necessary for us to plan carefully that all departments of our work may be kept up to a reasonable standard of efficiency. So, it sometimes happens that we have to deny requests for book purchase where the book itself would be a valuable addition to our collection because some other need is more pressing.

The moderate amount of income received from the Hill estate during the past year has released other money for absolutely necessary additions to equipment within the library and for needed repairs on the outside of the building. So during a period of very high prices on books and binding, our library has not been seriously hampered in carrying on its ordinary volume of work. This statement applies especially to book purchases. In binding much has been put aside to a more favorable time.

Further increase in our income from the Hill fund will some day make it possible to do those many things which are much needed in order to maintain our standard of efficiency. Many expensive books are needed in our reference department. Our children's department needs a constant monthly expenditure of money for books greatly in excess of anything which we have been able to give it. There is a steady increase in demand there which we are not able to meet. Increased shelving space fol-

lowed by a lavish expenditure for children's books would be met with an immediate response. When the public library gets a hold upon the boy and girl of today it has a hold upon the man and woman of tomorrow.

A third demand, and I believe a legitimate one, is that we should buy more copies of the best recent fiction and that we should have a larger collection of standard fiction, books whose bindings are clean and attractive and whose print is large and clear. The problem of the purchase of fiction is one of the most difficult which the public library has to handle. We are not able to supply the reasonable demand of our patrons.

A fourth demand which we are meeting only indifferently well is that of the outlying, rural communities of our city for books for both children and adults. For some time past our library has been sending traveling libraries of fifty volumes each to the suburban schools. Two or three years ago it was necessary to urge these books upon the teachers. Now they are reaching out for them. The result is that with our increased circulation at home, it has been impossible to take from our own store a sufficiently large number of acceptable books to supply this demand. We have had to call upon the State Library for help and shall have to continue to do so until an increase in our own funds makes it possible to buy and to set aside especially for the rural communities an up-to-date collection of the best books. The boys and girls in the country who lack so many of the advantages of city schools should not be deprived of the best that can be bought in books. The total expense would be trifling in comparison with the benefits which would result.

It is, perhaps, too early to begin to plan the spending of an income which is not yet ours. But when we remember that in all human probability we shall soon have a large book fund with no corresponding increase in money to get these books out to the public, it is natural that we should begin to speculate upon our first move outward. I believe that this move should be in the direction of the schools. We should bring the book so near to the child that he must become a reader by the very fact of this nearness. A liberal deposit of books in the High School Library, a book deposit in every school room of the city, making it possi-

ble that the best books and the beautifully illustrated books should be seen, handled and read by every child in the city, would surely be a glorious memorial to those who have endowed this institution. We do not want to relieve the school department of its reasonable responsibility to furnish text books and supplementary texts to the children in the schools and we should always insist that our books be administered for the most part by library workers.

In view of the fact that we are already planning some device which shall bring before the public the need of money for administrative purposes, an announcement in this report of the library's future needs is not premature.

It is generally true that libraries are poor in book money. This has been particularly true of our library. The fact has been impressed upon the public with the result that most of our recent bequests have been given with the expressed stipulation that the income shall be used for the purchase of books. This is true of the Hill bequest. Moreover, due and proper acknowledgement of book money is being constantly made through the book-plate pasted in every book purchased. The public knows little or nothing about those whose money is maintaining the building, buying the equipment and paying the salaries. As suggested above, we shall soon have a method of bringing conspicuously and constantly before the people the names of individuals and corporations whose money is administering our library.

The casual observer might suppose that, if the library is just coming into a large bequest, the responsibility of the city and of our friends will cease, that the library will run itself from endowment funds. This is exactly the reverse of what is true. Responsibility has increased rather than lessened. There is the added responsibility for more room, more equipment, more workers, more opportunities for service. A business man would hardly begin suddenly to buy three or four times as much stock as formerly without providing for increase in storage room, shelves for display, office room and office force, clerks, etc., etc. All of these things and many more will be needed in our library of the future; so we are telling the public of it now that they

may understand our needs and help us meet them as they come. The sum and substance of it all is that future bequests should be as free as may be from restrictions, or should be definitely assigned for administration.

The actual work of the year is summarized by departments as follows:

### CATALOGUING DEPARTMENT

The importance of this department can not be overestimated. The public knows little about it. The reward of its workers must be in the consciousness of an important service faithfully performed. If its only problem were the cataloguing of new books its labors would be comparatively light. There is always a large amount of back work to be caught up. There is an old non-fiction catalogue which is being recatalogued, there are many shelves of old books to be catalogued, set aside for the favorable time, and there are government documents, sent to the library after the fire, which have not been catalogued and placed on the shelves. Considering the cataloguing force available, good progress has been made upon the first two of these pieces of work. Besides back cataloguing there is back typewriting. Excellent progress has been made in this work. The end of it is in sight.

All emergency work draws in the end upon our cataloguing force. A rush at the desk, illness on the staff, revision of the stacks must be met by a call upon those who are supposed to be cataloguing. Such interruptions have been especially numerous this year. To the credit of this department it may truly be said that all from the head cataloguer down have cooperated to the fullest extent in helping to carry on this extra work. In spite of interruptions the department has done more work this year than last, a total of 4161 books catalogued in 1921 as against 3535 in 1920 and 5892 cards typewritten in 1921 as against 5701 in 1920.

The beginning of a new children's catalogue is commented upon under the *Juvenile Department*.

## CLASSIFICATION DEPARTMENT

The number of volumes in the library on January 1, 1921, was 76,512. During the past year there has been a net gain of 4,570.

The additions number about the same as they did in 1920, although 476 more volumes were purchased and 108 more periodicals bound.

The total number of volumes added was 5,048, of these 2,186 were purchased, 2,318 received by gift, 544 by binding periodicals, etc. *See Appendix A.*

478 volumes have been removed from the records: including 308 worn out, 68 duplicates, 29 charged out and not returned, 15 lost and paid for, and 58 for other causes. *See Appendix B.*

Although no attempt has been made during the year to reclassify any particular class, it was decided early in 1921 that Biography would be the next class to be revised and in carrying out the plan of reclassification all new additions have been given the new call number. The work of reclassifying books from the old non-fiction card catalogue, which is now about one fifth done, has made it necessary not only to reclassify many volumes of Biography, but also books from all other classes.

During the month of June an inventory of Sociology and History was taken. Considering the fact that this was the first one taken since we have been in the new building the missing volumes were not many. A list of those missing has been kept and will be revised from time to time.

The purchase of twelve new stacks has relieved the crowded condition of our shelves. The rearrangement of the books which followed has made necessary the moving of nearly every volume in the library. In this work all have had their part. It is with a feeling of great relief that we announce the completion of this work. The responsibility for its planning has fallen chiefly upon the head of the classification department.

## CIRCULATION DEPARTMENT

The library has been open for reading and circulation every day throughout the year from 9 a. m. to 9 p. m., except Sundays,

legal holidays, including Armistice day, and the special days mentioned below.

The special days were the afternoon of August 24, Governor's day at the Eastern Maine State Fair, the forenoon of September 7, the day of the funeral of Miss Annie E. Wayland, a member of the staff, and September 13, one hour during the funeral of Mr. C. F. Bragg, a member of the Board of Trustees.

The circulation for the adult department has increased from 81,672 in 1920 to 98,047 in 1921. This, plus the juvenile circulation of 26,399 makes a total of 124,446. This does not include the 3,368 books issued for reading room use.

The number of card holders in the adult department has increased from 4,681 in 1920, with 1301 juvenile cards, to 5,413 in 1921, plus 1,496 juvenile, making a total of 6,909.

*See Appendix D, E, F, G, H.*

During the past year the Harvard Classics, which have been shelved in the reading room since their addition to the library, have been placed in circulation.

The addition of a large case near the delivery desk makes it possible for the public to obtain a better idea of the books in the stacks, one shelf being devoted to each of the different classes of books which are in the library, while a large section contains fiction supplementing the other two fiction cases.

Every effort is made in this department to serve the public quickly and efficiently and to assist them in obtaining whatever they may wish for.

#### DEPARTMENT OF SERIALS AND BINDING

In 1921 the library received 351 current serials during the whole, or a considerable part, of the year. We were subscribers to 175 of these and 176 were presented.

A new case was put into the reading room, so that now practically all of the serials are accessible to the public.

All of the unbound serials that had accumulated for some time in the lower stack were looked over and several volumes saved for possible future binding.

Statistics for binding are given in *Appendix C.*



## JUVENILE DEPARTMENT

The beginning of the year 1921 found the juvenile department without a head. Miss Clement assumed the work of this department with Miss Hersey assisting in the Story Hour. Upon Miss Clement's resignation, Mrs. Davis took up the work until September 1, when Miss Smith became head of the department. In spite of these many changes the work with the children has steadily increased. The beginning of the new year finds the department in excellent condition, ready to push forward to new undertakings.

The usual bird-house contest was held in the spring and prizes given for the best built houses. The grade schools were visited and announcement made of the continuation of the Story Hour on Saturday mornings through the summer. Our plan for the story told by the children's librarian and by volunteer teachers from the kindergarten schools of the city, out of doors in the different parks of the city, was a decided success. Not only were the children entertained and instructed, but the reaction upon their use of the library was very decided.

During 1921, 1496 cards were issued, allowing the holder the use of two books at a time, only one of which may be fiction, thus abolishing the use of study cards in the juvenile department; 115 mother's cards were issued; 10,997 readers used the juvenile reading rooms and 26,399 books were issued, nearly 5,000 more than the previous year.

*See Appendix D, E, F, G, H, L.*

The average attendance at the Story Hour since the beginning of the fall term of the schools has been 50. The year's Story Hour ended with a very successful Christmas party held in the library lecture hall Saturday, December 24, at which 120 children were present.

The third Children's Book Week was observed the week of November 14. It was very successful from every standpoint. The interest manifested by adults in the juvenile work was very gratifying. Each day was devoted to a special topic. Books suited to the subject and posters made by the children were on exhibition. Three book cases made by members of the manual training class of the public schools and used during the week

have since been added to the permanent fixtures of the room. A collection of illustrated books, furnished by Dillingham's Book Store, added greatly to the attractiveness of the exhibit. The Story Hour that week was in charge of Mrs. J. A. Thompson and over 100 children listened to her interesting animal and fairy stories.

A children's catalogue has been started, the work being done by the children's librarian and revised by the head cataloguer. It will be very simple and adapted to the needs of the children and also of the increasing number of teachers who use the department.

The reference collection is being steadily increased.

The picture collection has been increased and is much used by the schools.

Six graded lists have been prepared by the children's librarian. In addition to these we have distributed copies of the Bookshelf for Boys and Girls, Children's Books for Christmas Gifts, prepared by the American Library Association, and copies of the Official Boy Scouts' Library.

Work which is done in the art department of the schools, of special interest, is placed on exhibition in the juvenile room, thus bringing many children to the library for the first time to see "their" poster.

### TRAVELING LIBRARIES

This year shows an appreciable gain in the traveling library department. Applications for traveling libraries from all the suburban schools except one, have been received and filled. Of the 33 traveling libraries sent out, 24 have been returned. The total circulation for the 24 returned boxes was 1591. Last year's report shows that 23 boxes sent out had a total circulation amounting to 1344.

Besides supplying rural schools which have had the advantage of libraries, we added to our list this year the Mt. Hope, Odlin Road, and Hillside schools. Applications were made for libraries which we could not fill from our own library. Upon request, the State Library sent us two library boxes which we in turn sent to the applicants whose wants we could not supply.

By getting the boxes from the State Library we accommodated all who desired libraries.

During the year we also supplied several institutions in the city with traveling libraries. The Home for Aged Women has received 2 libraries; Salvation Army 1; Home for Aged Men 2; Good Samaritan Home 2; Central Fire Station, 2. Three of these institutions have boxes out at the present time.

### REFERENCE ROOM

Statistics of reference work have not been kept, but we feel that the work of this department has greatly increased. The regular work with the schools and clubs of the city has been carried out on a larger scale than usual. Many inquiries have been made by letter and especially by telephone, the latter method becoming quite popular. Much work has been done with out-of-town residents by means of the inter-library loans.

Several bibliographies were prepared this year. The two longest were "Plays," prepared at the request of the Shakespeare Club, and "A bird's eye view of the United States in history, art, literature and science" for the 19th Century Club. Others were "Short stories," "Western stories," "Detective stories," "Civil war stories," "Revolutionary war stories," and "Sea stories."

Another important piece of work completed is a careful revision of our "Union list of serials."

The work of reclassifying the material in the "Maine file" has progressed very satisfactorily, the material now being kept up to date.

### GIFTS

Many of the most valuable books in our library have come to us as gifts. The Board of Trustees authorizes the librarian to accept all gifts of books. Of the books added to the library during the past year more came to us by gift than by purchase. As our book shelves are filling up it becomes more and more necessary that the librarian should use his authority to discard obsolete books and duplicates.

The total number of gifts accessioned was 2,318 as compared with 2,792 gifts accessioned in 1920.

Notable benefactors were:

- Dr. Hayward Stetson
- Mrs. S. H. Newcomb, as a memorial to her son, Frank E. Hall
- Mrs. Mary B. Aiken
- Estate of Dr. W. H. Simmons
- Mrs. W. E. Brown
- Anna M. Stetson

*For other donors see Appendix M.*

Besides the gifts of books mentioned above the library has been presented with two valuable paintings. One, the gift of Mr. and Mrs. Harry L. Arnold, is a copy in oil of Andrea del Sarto's Madonna of the Harpies. This picture is hung in the reading room over the fireplace. The other, also an oil painting, given by Miss Elizabeth L. Handy, is "Modesty and Vanity" from the original in the Sciarra Gallery at Rome, attributed to Leonardo da Vinci. The latter has not yet been hung.

### THE STAFF

We lost during this year three members of our staff, one by death, Miss Annie E. Wayland, the others by resignation, Miss Clement and Miss Donovan. Miss Clement resigned in April and Miss Donovan in October, both on account of ill health.

They had found their places in the work of the library. We greatly regret their loss.

Miss Wayland, for 14 years a member of the staff of our library, died September 4, 1921. The following tribute to her character and work appeared in our letter to the Commercial on the Saturday following her death:

The Bangor Library has met an almost irreparable loss in the death of Miss Wayland. She came into the library as a high school substitute and, after graduation, was appointed a regular assistant. In the 14 years since then, she had made herself familiar with nearly every department of library work.

Faithful beyond measure, absolutely devoted to her work and to the interests of the library, with the highest ideals of her profession, she had served the public for many years in the reference department. Her work required skill, a broad knowledge of books, infinite patience and an abiding faith in human nature. All of these qualities she had in the fullest measure. She dealt with the boys and girls of the schools, with the women's clubs, with the rural schools and the charitable institutions of the city through traveling libraries, and with any and all who had a piece of literary work to do or a question to be answered. Those whom she helped will always remember her and the friendly smile with which the service was rendered.

Several years ago Miss Wayland had a serious nervous breakdown due to overwork. Since then she had never been strong. A recurrence of this nervous condition resulted fatally. She leaves a widowed mother for whom she has tenderly cared.

#### LIBRARY MEETINGS

The librarian attended the meeting of the American Library Association held in Swampscott in June. The value and inspiration of such a meeting cannot be estimated.

The library was represented at the meeting of the Maine Library Association at Portland, in October, by the librarian and by Miss Burnham of the cataloguing department.

In submitting this report I want to thank all those who have made my first year at Bangor Public Library so pleasant, my Trustees for their courtesy and counsel, my Staff for their most hearty cooperation, the Bangor Daily News and the Bangor Daily Commercial for their willingness to publish library news and my many friends who have backed me and encouraged me in my work.

Respectfully submitted,

Elmar T. Boyd,

Librarian.

Bangor, January 17, 1921.

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**IN MEMORIAM**

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**DR. THOMAS UPHAM COE**

Dr. Thomas Upham Coe was born at Northwood, N. H., Dec. 8, 1837 and died at Kineo, Maine, July 31, 1920. His parents moved to Bangor when he was eight years old. He attended the public schools of Bangor, graduating from the high school in 1853. He then entered Bowdoin College from which he was graduated in 1857. Three years later he was given the degree of A. M. from Bowdoin and in 1861 he was given the degree of M. D. from Jefferson Medical College at Philadelphia. He then went abroad and studied for two years at the Ecole de Medicine in Paris. In 1864 he began the practice of medicine in Bangor, which he continued for about fifteen years. He then retired from the active practice of medicine and gave his time and attention to the large business interests with which he had become connected.

Dr. Coe was a member of the executive board of the Merrill Trust Company, director of the Bangor and Aroostook Railway Co., the European and North American Railroad Co., the Orono Pulp and Paper Co. and a trustee of the Penobscot Savings Bank. He was vice-president of the Bangor Mechanic Association and trustee of the Bangor Public Library. He was always interested in the affairs of the city and served on the Water Board and on the School Committee.

By the death of Dr. Coe Bangor has lost a public spirited and generous citizen, and the trustees of the Public Library a courteous, genial, able and distinguished colleague.

D. A. R.

**MR. CHARLES F. BRAGG**

Charles F. Bragg was born in Dixmont, June 22, 1850, and died in Bangor, September 11, 1921. While a student in the Bangor High School, his father, Norris H. Bragg, died; so he was obliged to leave the school before graduating and enter the business. He was so successful in business that fifteen years ago he was chosen president of the Orono Pulp and Paper Co.

By his energy, good judgment and ability he soon made this one of the foremost plants in the industry. He took a leading part in financing the Bangor and Aroostook Railway and was for a time vice-president of the Company. Mr. Bragg was also much interested in the affairs of the city and was mayor of Bangor for three successive years. He also served many years on the Water Board. He was treasurer of the Bangor Mechanic Association, trustee of the Bangor Public Library, president of the Home for Aged Women and trustee of the Bangor Chamber of Commerce. To all of these institutions he gave freely of his time and business ability.

By his death Bangor has lost one of its most prominent, progressive and highly respected citizens and the trustees of the Public Library an able, helpful and congenial colleague.

D. A. R.

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## APPENDIXES

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### APPENDIX A

#### Growth of the Library in 1921, by class

	In Library Jan. 1, 1921	Net addition 1921	In Library Jan 1, 1922
General works.....	6,904	517	7,421
Philosophy.....	951	77	1,028
Religion.....	3,004	108	3,112
Sociology.....	16,242	910	17,152
Philology.....	672	59	731
Natural Science.....	3,582	227	3,809
Useful Arts.....	6,953	413	7,366
Fine Arts.....	6,293	251	6,544
Literature.....	3,898	347	4,245
Poetry and drama.....	3,015	156	3,171
Fiction.....	8,270	713	8,983
History.....	9,763	447	10,210
Description.....	2,790	135	2,925
Biography.....	4,175	210	4,385
Total.....	76,512	4,570	81,082

### APPENDIX B

#### Growth of the Library in 1921, by source

Number of volumes in Library, January 1, 1921.....	76,512
Additions:	
By purchase.....	2,186
Gift.....	2,318
Binding periodicals purchased.....	400
Binding periodicals presented.....	128
Exchanged.....	6
Lost and returned.....	10
Total gain.....	5,048



## Withdrawals:

Worn out.....	308	
Duplicates removed.....	68	
Charged out and not returned.....	29	
Lost and paid for.....	15	
Recorded by mistake.....	3	
Missing.....	30	
Destroyed: contagious disease.....	17	
Exchanged.....	6	
Sold.....	1	
Returned to publisher.....	1	
Total loss.....	478	
Net gain during 1921.....		4,570

Number of books in Library, January 1, 1922..... 81,082

## APPENDIX C

## Binding and Repair, 1921

Volumes of serials sent to bindery.....	226
Books sent for binding.....	103
Books sent for rebinding.....	677
Total.....	1,006
Repaired by binders..	174
Repaired by library.....	205
Total.....	379

## APPENDIX D

## Registration

	Main Library	Juvenile Dept.	Total
Registered card holders.....	5,413	1,496	6,909
Ordinary cards re-issued.....	815	175	990
Card holders having study cards.....	2,204	* 0	2,204
Study cards re-issued.....	55	0	55
Extra study cards issued.....	1,309	0	1,309
Total.....	9,796	1,671	11,467

\*There were no study cards issued in the Juvenile Department; one card being used for both fiction and non-fiction.

## APPENDIX E

## Classes of Borrowers

	Main Library	Juvenile Dept.	Total
A Residents of Bangor.....	5,265	1,381	6,646
Am Mother's cards.....	0	115	115
B Bangor schools, study clubs, etc.....	59	0	59
C Out of town borrowers who pay at the rate of \$3.00 a year .....	38	0	38
D Special borrowers who leave a deposit ...	34	0	34
E Libraries outside of Bangor.....	17	0	17
Total.....	5,413	1,496	6,909

## APPENDIX F

## Circulation by class, 1921

	Main Library	Juvenile Dept.	Total
General works including unbound periodicals	8,681	910	9,591
Philosophy.....	1,640	8	1,648
Religion.....	808	157	965
Sociology.....	1,901	3,579	5,480
Philology.....	252	95	347
Natural Science.....	910	469	1,379
Useful Arts.....	2,249	774	3,023
Fine Arts.....	1,711	398	2,109
Literature.....	4,308	1,144	5,452
Poetry.....	1,119	260	1,379
Fiction.....	68,040	17,107	85,147
History.....	2,635	676	3,311
Description.....	1,308	347	1,655
Biography.....	2,485	475	2,960
Total.....	98,047	26,399	124,446

## APPENDIX G

## Circulation by month

	Main Library	Juvenile Dept.	Total
January.....	8,626	1,731	10,357
February.....	8,228	2,023	10,251
March.....	9,499	2,864	12,363
April.....	8,786	2,509	11,295
May.....	7,308	1,933	9,241
June.....	7,351	2,367	9,718
July.....	7,001	2,014	9,015
August.....	7,570	2,057	9,627
September.....	7,485	1,286	8,771
October.....	8,583	1,917	10,500
November.....	8,730	2,540	11,270
December.....	8,880	3,158	12,038
Total.....	98,047	26,399	124,446

## APPENDIX H

## Growth and circulation, 1911-1921

Year	Books in Library	Jan. 1	Circulation (May-Dec.)
1911.....	68,845	22,755	
1912.....	7,127	54,259	
1913.....	13,203	57,918	
1914.....	22,282	75,682	
1915.....	31,814	82,956	
1916.....	43,323	84,382	
1917.....	50,498	81,030	
1918.....	57,569	91,082	
1919.....	67,293	100,713	
1920.....	71,940	103,285	
1921.....	76,512	124,446	
1922.....	81,082		

## APPENDIX I

## Overdue Books

Postal card notices sent in 1921.....	8,847
Second notices.....	557
Books lost and paid for.....	15
Books lost and not paid for.....	29

## APPENDIX J

Books from Stacks used in Reading Room,  
By class

General works, including unbound periodicals . . . . .	508
Philosophy . . . . .	42
Religion . . . . .	68
Sociology . . . . .	510
Philology . . . . .	31
Natural Science . . . . .	139
Useful Arts . . . . .	296
Fine Arts . . . . .	265
Literature . . . . .	352
Poetry . . . . .	84
Fiction . . . . .	111
History . . . . .	566
Description . . . . .	121
Biography . . . . .	275
Total . . . . .	3,368

## APPENDIX K

## By month

January . . . . .	378
February . . . . .	537
March . . . . .	437
April . . . . .	383
May . . . . .	315
June . . . . .	160
July . . . . .	127
August . . . . .	160
September . . . . .	231
October . . . . .	206
November . . . . .	177
December . . . . .	257
Total . . . . .	3,368

## APPENDIX L

## Readers in Juvenile Department

January . . . . .	720
February . . . . .	816
March . . . . .	1,211

April.....	793
May .....	612
June.....	684
July.....	932
August.....	954
September.....	836
October... ..	1,225
November.....	650
December.....	1,564
Total.....	10,997

## APPENDIX N

AMERICAN LIBRARY ASSOCIATION FORM  
FOR UNIFORM STATISTICSAnnual Report for year ended December 31, 1921, Bangor Public  
Library, Bangor, Maine.

Population served.....	26,000
Free for lending and free for reference.	
Total number of agencies.....	15
Number of days open during year: for lending and for reading. . .	304
Hours open each week for lending. . . . .	72
Hours open each week for reading. . . . .	72
Total number on staff (including two full-time substitutes).....	12
Number of volumes at beginning of year. . . . .	76,512
Number of volumes added during year by purchase.....	2,186
Number of volumes added during year by gift or exchange, etc. . . .	2,334
Number of volumes added during year by binding material not otherwise counted.....	544
Number of volumes lost or withdrawn during year.....	478
Total number at end of year.....	81,082
Number of volumes of Fiction lent for home use.....	85,147
Total number of volumes lent for home use.....	124,446
Number of borrowers registered during year:	
Adult.....	5,413
Juvenile.....	1,496
Total.....	6,909
Total number of registered borrowers.....	6,909
Number of newspapers and periodicals currently received:	
Titles.....	351
Copies.....	413

Receipts from	
* Local taxation . . . . .	\$12,841.48
State grant . . . . .	500.00
Endowment funds . . . . .	15,162.35
Fines . . . . .	761.42
Payments for	
Books . . . . .	4,290.93
Periodicals (for six months) . . . . .	525.56
Binding . . . . .	1,959.23
Salaries, library and janitor service . . . . .	14,512.74
Heat . . . . .	3,349.30
Light, municipal plant, not charged to Library	
Supplies and sundries . . . . .	2,324.06

\*City appropriated March 1, 1921 to March 1, 1922 . . . . . \$15,409.77

## APPENDIX M

## Gifts to the Library during 1921

Giver	Books & Pamphlets	Serials	Other Things
Abbott, Fred A., <i>Bangor</i> . . . . .	35		
Advent Christian Publication Society, <i>Boston, Mass.</i> . . . . .		49	
Aiken, Mrs. Mary B. . . . .	212		
American Association for International Conciliation, <i>New York City</i> . . . . .		16	
American Child Hygiene Association, <i>Baltimore, Md.</i> . . . . .		3	
American Commission on Conditions in Ireland . . . . .	1		
American Committee of Justice, <i>Oakland, Cal.</i> . . . . .	1		
American Federation of Labor Railway Employees' Department, <i>Chicago, Ill.</i> . . . . .	1		
American Humane Association, <i>Albany, N. Y.</i> . . . . .		6	
American Irish Historical Society, <i>New York City</i> . . . . .	1		
American Issue Publishing Co., <i>Westerville, Ohio</i> . . . . .		53	
American Judicature Society, <i>Chicago, Ill.</i> . . . . .		6	
American Red Cross, Department of Junior Membership, <i>Washington, D. C.</i> . . . . .		1	

Giver	Books & Pamphlets	Serials	Other Things
American Red Cross, New England Division, <i>Boston, Mass.</i> .....		3	
American Society of Agricultural Engineers, <i>Ames, Iowa</i> .....	1		
Aquarian Ministry, <i>Santa Barbara, Cal.</i> .....		2	
Association of Railway Executives, <i>New York City</i> .....		4	
Atlantic Deeper Waterways Association, <i>Philadelphia, Pa.</i> .....		1	
Azoth Publishing Co., Inc., <i>New York City</i> ....		5	
Baker, Miss Emma, <i>Hampden Highlands, Maine</i>	3		
Balch, Edwin Swift, <i>Philadelphia, Pa.</i> .....	1		
Baldwin, William H., <i>Washington, D. C.</i> .....	1		
Bangor Chamber of Commerce.....	28		
Bangor, City Auditor.....		23	
Bangor, Essex St. Baptist Church.....		51	
Bangor High School.....		20	
Bangor, Knights of Columbus.....		12	
Bangor, New Thought Society.....		8	
Bangor School Department.....	28		
Bangor, Unity Spiritualist Society.....	55		
Bangor, Woman's Alliance of the Unitarian Church.....		53	
Bankers Trust Company, <i>Des Moines, Iowa</i> ..			1
Bartlett, Mrs. Annie Smith, <i>Bangor</i> .....	13		
Battle Creek Sanitarium, <i>Battle Creek, Mich.</i> ...		5	
Beecher, Miss Clairece, <i>Bangor</i> .....	2		
Beethoven Association, <i>New York City</i> .....	3		
Benedict, Mrs. Stone, <i>Basle, Switzerland</i> ....	1		
Bird Conservation Club, <i>Bangor</i> .....	2		
Boody, J. S. F., <i>Bangor</i> .....	2		
Boston Evening Transcript, <i>Boston, Mass.</i> ....	1		
Boston Museum of Fine Arts, <i>Boston, Mass.</i> ....		5	
Boston Public Library, <i>Boston, Mass.</i> .....		4	
Boyd, Elmar T., <i>Bangor</i> .....	1		
Brewer Public Library, <i>Brewer, Maine</i> .....	4		
Bright, Joseph M., <i>Bangor</i> .....	1		
Brockton, Mass., Public Library.....		4	
Brookline Public Library, <i>Brookline, Mass.</i> ....			3
Brooklyn Institute of Arts and Sciences, <i>Brooklyn, N. Y.</i> .....		5	

Giver	Books & Pamphlets	Serials	Other Things
Brooklyn Public Library, <i>Brooklyn, N. Y.</i> ....		6	
Brown, Mrs. W. E., <i>Bangor</i> .....	4	108	
Brown University, <i>Providence, R. I.</i> .....		7	
Bureau of Industrial Research, <i>New York City</i>	1		
Bureau of Social Hygiene, <i>New York City</i> .....	1		
Burr, Miss Harriet, <i>Bangor</i> .....	6		
Carnegie Endowment for International Peace, <i>Washington, D. C.</i> .....	14		
Carnegie Hero Fund Commission, <i>Pittsburg,</i> <i>Pa.</i> .....	1		
Carter, William, <i>New York City</i> .....	1		
Carey, C. P., <i>Madison, Wisconsin</i> .....	1		
Chapman, Mrs. Harry, <i>Bangor</i> .....	3		
Chicago Municipal Reference Library, <i>Chicago,</i> <i>Ill.</i> .....	3		
Chicago University, <i>Chicago, Ill.</i> .....			
International Committee of Young Men's Christian Associations.....		13	
Christian Record Publishing Co., <i>College View,</i> <i>Nebraska</i> .....		13	
City Plan Commission, <i>St. Louis, Mo.</i> .....	1		
Clark, Elizabeth L., <i>Bangor</i> .....	24		
Colby College, <i>Waterville, Maine</i> .....	1		
Colgate & Co., <i>New York City</i> .....	2		
Committee of American Business Men, <i>New</i> <i>York City</i> .....	1		
Congregational Conference and Missionary Soicety of Maine, <i>Portland, Maine</i> .....		4	
Connecticut State Geological and Natural His- tory Survey, <i>Hartford, Conn.</i> .....		2	
Connecticut State Library, <i>Hartford, Conn.</i> .....	2		
Cook, Thos. & Son, <i>New York City</i> .....		12	
Coolidge, Philip, <i>Bangor</i> .....		20	
Cornell University, <i>Ithaca, N. Y.</i> .....		44	
Corning, Howard, <i>Bangor</i> .....		19	
Council of Foreign Relations, <i>New York City</i> ..	1		
Crosby, James H., <i>Bangor</i> .....	5	45	
Crosby, Wilson, <i>Baltimore, Maryland</i> .....	1		
Currie, Mrs. Thomas, <i>Bangor</i> .....	3		
Daughters of the American Revolution, Fran- ces Dighton Williams Chapter, <i>Bangor</i> ....		12	



Giver	Books & Pamphlets	Serials	Other Things
Davis, Charles B., <i>Portland, Maine</i> . . . . .	1		
Dearborn Publishing Co., <i>Dearborn, Mich.</i> . . . . .	1	22	
Delaware Corporation Company, <i>Wilmington, Delaware</i> . . . . .	2		
Dennison Manufacturing Co., <i>Framingham, Mass.</i> . . . . .	3		
Dodge, N. P., <i>Omaha, Nebraska</i> . . . . .	1		
Dole, Miss M. D., <i>Bangor</i> . . . . .	10	338	
Doubleday, Page & Co., <i>New York City</i> . . . . .		12	
Du Pont De Nemours & Co., E. I., <i>Wilmington, Delaware</i> . . . . .	1		
Dunn, Matthew F. <i>Bangor</i> . . . . .		52	
Duren, Mary F., <i>Bangor</i> . . . . .	36		
Eastern Manufacturing Co., <i>South Brewer, Maine</i> . . . . .		19	
El Maestro Revista de Cultura Nacional, <i>Mexico</i> . . . . .	1		
Ethical Culture School, <i>New York City</i> . . . . .	1		
Farnsworth, Edward C., <i>Portland, Maine</i> . . . . .	1		
Felt & Tarrant Mfg. Co., <i>Chicago, Ill.</i> . . . . .	1		
Fish, Stuyvesant, <i>Philipstown, N. Y.</i> . . . . .	1		
Fisher, Irving, Yale University, <i>New Haven, Conn.</i> . . . . .	1		
France-America Commission, <i>Paris, France</i> . . . . .		11	
Fritchey, A. J., <i>San Francisco, Cal.</i> . . . . .	1		
General American Agency, <i>New York City</i> . . . . .			3
General Electric Company, <i>Schenectady, N. Y.</i> . . . . .	1	8	
Gerrish the Printer, <i>West Sullivan, Maine</i> . . . . .	2		
Gilbreth, Frank B., <i>Montclair, N. J.</i> . . . . .	1		
Godfrey, E. R., <i>Bangor</i> . . . . .		4	
Godfrey, Mrs. E. R., <i>Bangor</i> . . . . .	9		
Godfrey, Mrs. Fred, <i>Bangor</i> . . . . .		11	
Grinnell College, Alumnus of, <i>Grinnell, Iowa</i> . . . . .		6	
Grosvenor Library, <i>Buffalo, N. Y.</i> . . . . .		2	
Guaranty Trust Company, <i>New York City</i> . . . . .	7		
Hall, Walter E., <i>Springfield, Mass.</i> . . . . .	1		
Hatch, Dr. Louis C., <i>Bangor</i> . . . . .	9	35	
Hazlett, Mrs. Lucy W., <i>Bangor</i> . . . . .		2	
Heath, Mrs. H. C., <i>Bangor</i> . . . . .	5	19	
Hercules Powder Co., <i>Wilmington, Del.</i> . . . . .	4		
Hinckley, Mrs. Frank, <i>Bangor</i> . . . . .		35	

Giver	Books & Pamphlets	Serials	Other Things
Hindustan Gadar Party, <i>San Francisco, Cal.</i> . . . .		7	
Holt, Henry and Company, <i>New York City</i> . . . .	1		
Home Market Club, <i>Boston, Mass.</i> . . . . .		11	
Houghton, Mifflin Co., <i>Boston, Mass.</i> . . . . .		1	
Howard Memorial Library, <i>New Orleans La.</i> . . . .	1		
Hulbert, Mrs. Henry W., <i>Groton, Conn.</i> . . . . .	15	61	
Hussey, Mrs. Burt S., <i>Bangor</i> . . . . .	4		
Illinois University, <i>Urbana, Ill.</i> . . . . .		9	
Immigrant Publication Society, <i>New York City</i> . . . . .	2		
Indian Rights Association, <i>Philadelphia, Pa.</i> . . . .		1	
Institute of American Meat Packers, <i>Chicago, Ill.</i> . . . . .	1	10	
Interlaken Mills, <i>Providence, R. I.</i> . . . . .			1
International Bible Students Association, <i>Brooklyn, N. Y.</i> . . . . .	2		
International Correspondence Schools, <i>Scranton, Pa.</i> . . . . .		18	
International Free Trade League, <i>Boston, Mass.</i> . . . . .		3	
Italian State Railways, <i>New York City</i> . . . . .	7		
Italy America Society, <i>New York City</i> . . . . .	1	10	1
Japan Society, <i>New York City</i> . . . . .	1	5	
Japanese Association of America, <i>San Francisco, Cal.</i> . . . . .	1		
Jersey City Free Public Library, <i>Jersey City, N. J.</i> . . . . .		4	
Johns-Manville, H. W. Co., <i>New York City</i> . . . .	2		
Jones, Mrs. Vaughn, <i>Veazie, Maine</i> . . . . .	1		
Judge Baker Foundation, <i>Boston, Mass.</i> . . . . .	1		
Kahn, Otto H., <i>New York City</i> . . . . .	1		
Kiwanis Club, <i>Chicago, Ill.</i> . . . . .		2	
Kunderd, A. E., <i>Goshen, Indiana</i> . . . . .	1		
Kuppenheimer, B. & Co., <i>Chicago, Ill.</i> . . . . .	1		
Labor, National Weekly Newspaper, <i>Washington, D. C.</i> . . . . .		33	
Legacion Del Ecuador, <i>Washington, D. C.</i> . . . . .	1		
Legation of Venezuela, <i>Washington D. C.</i> . . . .	1		
Library Bureau, <i>Boston, Mass.</i> . . . . .	2		
Lichtenwallner, W. A., <i>Los Angeles, Cal.</i> . . . . .	1		
Long Bell Lumber Company, <i>Kansas City, Mo.</i>	1		

Giver	Books & Pamphlets	Serials	Other Things
Macbeth-Evans Glass Company, <i>Pittsburg, Pa.</i>	1		
McCarthy, Rev. Jeremiah, <i>Bangor</i> . . . . .	2		
McClatchy, James & Co., <i>Sacramento, Cal.</i> . . .	1		
Maine Agricultural Experiment Station, <i>Orono, Maine</i> . . . . .	1	7	1
Maine Central Railroad Company, <i>Portland, Maine</i> . . . . .	1		
Maine Commissioner of Agriculture, <i>Augusta, Maine</i> . . . . .		14	
Maine Forest Commissioner, <i>Augusta, Maine</i> . .	2		
Maine Public Health Association, <i>Augusta, Maine</i> . . . . .	2	10	
Maine State Department of Health, <i>Augusta, Maine</i> . . . . .		2	
Maine State Library, <i>Augusta, Maine</i> . . . . .	18	1	
Maine State Superintendent of Schools, <i>Augusta, Maine</i> . . . . .		4	
Maine University, <i>Orono, Maine</i> . . . . .		2	
Maine University College of Law, <i>Orono, Maine</i>		1	
Maine University, General Alumni Association, <i>Orono, Maine</i> . . . . .		7	
Malden Public Library, <i>Malden, Mass.</i> . . . . .		4	
Marshall, W. A., <i>Dayton, Ohio</i> . . . . .	1		
Marshall Field & Company, <i>Chicago, Ill.</i> . . . . .	1		
Massachusetts Library Club . . . . .		3	
Massachusetts Society for Prevention of Cruelty to Animals, <i>Norwood, Mass.</i> . . . . .		12	
Mazdaznan Society, <i>Los Angeles, Cal.</i> . . . . .		12	
Metropolitan Art School, <i>New York City</i> . . . . .	4		
Metropolitan Life Insurance Company, <i>New York City</i> . . . . .	10		
Metropolitan Museum of Art, <i>New York City</i> . .		2	
Michigan Historical Commission, <i>Lansing, Mich.</i> . . . . .	1	5	
Military Order of the Loyal Legion, U. S. Commandery of the State of Maine, <i>Portland, Maine</i> . . . . .		7	
Moses, Jasper T., <i>New York City</i> . . . . .		6	
Murphy, Claudia Quigley, <i>New York City</i> . . .	1		
National Automobile Chamber of Commerce, <i>New York City</i> . . . . .	1		

Giver	Books & Pamphlets	Serials	Other Things
National Bureau of Information, <i>Washington, D. C.</i> .....		18	
National Catholic Welfare Council, <i>Washington, D. C.</i> .....		22	
National Civil Service Reform League, <i>New York City</i> .....		9	
National Education Association, <i>Washington, D. C.</i> .....		9	
National Federation of Business and Professional Women's Clubs, <i>New York City</i> ....	1		
National Headquarters Girl Scouts, <i>New York City</i> .....	1		
National Lamp Works, Nela Park, <i>Cleveland, O.</i> .....	1		
National Library Bindery Co., <i>Springfield, Mass.</i> .....	1		
National Lime Association, <i>Washington, D. C.</i> ..		16	
National Republican Publishing Co., <i>Washington, D. C.</i> .....		14	
National War Work Council, <i>New York City</i> ...	1		
Naval War College, <i>Newport, R. I.</i> .....	11		
Nealey, Mrs. E. T., <i>Bangor</i> .....		72	
Near East Relief, <i>New York City</i> .....		11	
New Century Corporation, <i>Point Loma, Cal.</i> ....		12	
New England Conservatory of Music, <i>Boston, Mass.</i> .....		10	
New Haven, Conn., <i>Free Public Library</i> .....		4	
New York Chamber of Commerce, <i>New York City</i> .....	2		
New York Federal Reserve Bank, <i>New York City</i> .....		12	
New York National Bank of Commerce.....	1	11	
New York National City Bank, <i>New York City</i> .....		54	
New York, New Haven & Hartford Railroad Co., <i>New Haven, Conn.</i> .....		23	
New York Public Library, <i>New York City</i> .....	5	17	
New York State Library, <i>Albany, N. Y.</i> .....	4	12	
New York University <i>New York City</i> .....	1		
Newcomb, Mrs. S. H., <i>Bangor</i> .....	347	12	
Noble, Mrs. Lucy M., <i>Bangor</i> .....	6	56	

Giver	Books & Pamphlets	Serials	Other Things
North Carolina Historical Commission, <i>Raleigh, N. C.</i> .....	2		
North Carolina University, <i>Chapel Hill, N. C.</i> ..		2	
Ogilvie, J. S., <i>Publishing Company, New York City</i> .....	1		
Oriental Esoteric Library League, <i>Washington, D. C.</i> .....		26	
Osterhout Free Library, <i>Wilkes-Barre, Pa.</i> .....	5		
Oxford University Press, <i>New York City</i> .....	2		
Paine, Miss Eugenie H. and Carter, Mr. and Mrs. Henry, <i>Bangor</i> .....	1		
Palmer, William L., <i>Boston, Mass.</i> .....	1		
Pan-Pacific Union, <i>Honolulu, Hawaii</i> .....	1		
Paris-Lyon-Mediterranee Railway, <i>New York City</i> .....	3		
Passamaquoddy High School, <i>Eastport, Maine</i> ..	1		
Peirce, Mrs. M. C., <i>Bangor</i> .....	1		
Pelletier, Joseph C., <i>Boston, Mass.</i> .....	1		
Pennie, Davis, Marvin and Edwards, <i>New York City</i> .....	1		
Pennsylvania Department of Labor and Industry, <i>Harrisburg, Pa.</i> .....		5	
Pennsylvania Free Library Commission, <i>Harrisburg, Pa.</i> .....		2	
Penobscot Savings Bank, <i>Bangor</i> .....	10		
Perkins, H. E., <i>Washington, D. C.</i> .....	1		
Philadelphia Rapid Transit Co., <i>Philadelphia, Pa.</i> .....	2		
Philippine Government and Commercial Agencies, <i>New York City</i> .....	1		
Philippine Press Bureau, <i>Washington, D. C.</i> .....		6	
Phillips Exeter Academy, <i>Exeter, N. H.</i> .....		4	
Photodramatist Publishing Co., <i>Los Angeles, Cal.</i> .....		5	
Plainfield Public Library, <i>Plainfield, N. J.</i> .....			1
Portland Cement Association, <i>Chicago, Ill.</i> ...	5	7	
Presque Isle High School, <i>Presque Isle, Maine</i> ..		19	
Protestant Episcopal Church, <i>Portland, Maine</i>		11	
Putnam's, G. P. Sons, <i>New York City</i> .....	1		
Rensselaer Polytechnic Institute, <i>Troy, N. Y.</i> ..		7	
Reorganization of United Traction System, <i>Providence, R. I.</i> .....	1		

Giver	Books & Pamphlets	Serials	Other Things
Rio, F. Nieto del, <i>Riverside Drive, New York City</i> .....	1		
Rockfeller, Mrs. John D., Jr., <i>New York City</i> ..		10	
Rosicrucian Fellowship, <i>Oceanside, Cal.</i> .....		12	
Rudolph Wurlitzer Company, <i>Cincinnati, Ohio</i> ..	3		
Ruggles, Henry Stoddard, <i>Wakefield, Mass.</i> ....	1		
Russell Sage Foundation Library, <i>New York City</i> .....		6	
Russian Information Bureau, <i>New York City</i> ..	1	20	
Sawtelle, Prof. W. O., <i>Haverford, Pa.</i> .....	1		
School News Co., <i>New York City</i> .....		48	
Scribner's, Charles, <i>New York City</i> .....			1
Secretario y Subsecretario de Industry, Comercio y Trabajo de la Republica Mexicana, Mexico..	1		
Simmons, Dr. W. H. <i>Bangor</i> .....	52	14	
Smith, Rev. Ashley, <i>Bangor</i> .....	1		
Smithsonian Institution, <i>Washington, D. C.</i> ....		8	
Snowden, Albert A. & Co., <i>New York City</i> .....		2	
Soule, Dana A., <i>Bangor</i> .....	2		
Spargo, John, <i>Old Bennington, Vt.</i> .....	1		
Sprague, Adelbert, <i>Bangor</i> .....		728	
Standard Oil Co., <i>Bayonne, N. J.</i> .....		7	
Stark Rolling Mill Co., <i>Canton, Ohio</i> .....	1		
Stetson, Miss Anna M., <i>Bangor</i> .....	470		
Stetson, H. N., <i>Bangor</i> .....	1750	16	
Stetson, Dr. Haywood, <i>Bangor</i> .....	236		
Stodder, George, <i>Bangor</i> .....	6		
Stodder, Mrs. James C., <i>Bangor</i> .....	18	7	
Sullivan, James T., <i>Bangor</i> .....	2		
Taylor, John W., <i>Worcester, Mass.</i> .....	1		
Tefft, Mrs. Charles, <i>New York City</i> .....	1		
Texas Co., <i>New York City</i> .....		12	
Thaxter, Mrs. A. H., <i>Bangor</i> .....	19		70
Theatre Guild, Inc., <i>New York City</i> .....			4
Theosophical Society, <i>Brooklyn, N. Y.</i> .....		4	
Toomey, Noxon, <i>St. Louis, Mo.</i> .....	1		
United Fruit Company, <i>Boston, Mass.</i> .....	1		
U. S. Chamber of Commerce, <i>Washington, D. C.</i>		10	
U. S. Department of Agriculture, Bureau of Soils, <i>Washington, D. C.</i> .....	1	26	

Giver	Books & Pamphlets	Serials	Other Things
U. S. Department of Agriculture, Weather Bureau, <i>New York City</i> . . . . .		11	
U. S. Geological Survey, <i>Washington, D. C.</i> . . . .			32
U. S. Library of Congress, <i>Washington, D. C.</i> . . .	3		
U. S. Senate, <i>Washington, D. C.</i> . . . . .	1		
U. S. Shipping Board, <i>Philadelphia, Pa.</i> . . . . .	1		
U. S. Steel Corporation, <i>New York City</i> . . . . .	1		
U. S. Superintendent of Documents, <i>Washington, D. C.</i> . . . . .	377	2204	2
U. S. War Department, Office of the Chief of Air Service, <i>Washington, D. C.</i> . . . . .	8		
Unity School of Christianity, <i>Kansas City, Mo.</i> . . . .		31	
Utica Chamber of Commerce, <i>Utica, N. Y.</i> . . . .		13	
Vacuum Oil Company, <i>New York City</i> . . . . .	5		
Vedanta Centre, <i>Boston, Mass</i> . . . . .		10	
Virginia State Library, <i>Richmond, Va.</i> . . . . .		5	
Webster, Miss Mary, <i>Bangor</i> . . . . .	1	30	
Weeks, George F., <i>Washington, D. C.</i> . . . . .		3	
Western Theological Seminary, <i>Chicago, Ill</i> . . . .	1		
Whitehead, Russell F., Architect, <i>New York City</i> . . . . .	1		
Whitman, William Company, Inc., <i>Boston, Mass.</i> . . . . .	1		
Whittacker, Thomas, Inc. <i>New York City</i> . . . .	1		
Whittemore, Mrs. J. O., <i>Bangor</i> . . . . .	34		
Wilmington, Chamber of Commerce, <i>Wilmington, N. C.</i> . . . . .	1		
Wilmington Institute Free Library, <i>Wilmington, Del.</i> . . . . .		3	
Wing, Mrs. A. P., <i>Bangor</i> . . . . .	3		
Winnipeg Board of Trade, <i>Winnipeg, Canada</i> . . .	1	4	
Winship Publishing Co., <i>New York City</i> . . . . .		1	
Woman's Benefit Association of the Maccabees, <i>Port Huron, Mich.</i> . . . . .		5	
Worcester Art Museum <i>Worcester, Mass.</i> . . . . .		4	
Worcester Free Public Library, <i>Worcester, Mass.</i> . . . .		4	
World Peace Foundation, <i>Boston, Mass.</i> . . . . .	1		
World Wide Advertising Corporation, <i>New York City</i> . . . . .		48	
Wynona Camp for Girls, Lake Morey, <i>Fairlee, Vt.</i> . . . . .	2		

Giver	Books & Pamphlets	Serials	Other Things
Yvette Guilbert's School of the Theatre, <i>New York City</i> .....			1
Unknown .....	18	12	



## Report of Superintendent of Sewers

Bangor, Maine, Jan. 9th, 1922.

*To His Honor the Mayor, and the City Council:*

Gentlemen:

The Superintendent of Sewers herewith submits his report for the ten months ending Dec. 31st, 1921.

Annual Appropriation. . . . .	\$23,450.00	
Expended for new work and all repairs and other expenses. . . . .	21,908.54	
		\$1,541.46
Unexpended Balance. . . . .		\$1,541.46
Total expenditures. . . . .	\$21,908.54	
Assessments on property benefitted. . . . .	4,074.01	
		\$17,834.53
Total cost to the City. . . . .		\$17,834.53

### EXPENDITURES

#### *General Expense*

Salary of Superintendent. . . . .	\$1,000.00	
Salary of Board. . . . .	150.00	
Office supplies. . . . .	48.00	
		\$1,198.00

### SEWER CONSTRUCTION

	Total Cost	Assessments
Nowell Road. . . . .	\$1,141.38	\$856.03
Fourth Street Extension. . . . .	275.27	206.45
Mt. Hope Ave. . . . .	134.80	101.10
Parkview Ave. . . . .	612.93	459.70
Drummond and Nelson. . . . .	1,608.01	1,206.00

1922]

## CITY OF BANGOR

189

Hammond, East and Webster Ave. ....	2,321.65	
Kineo Street. ....	322.70	242.03
Stone Street. ....	295.70	221.78
Katahdin Street. ....	521.70	391.27
Plaistead Street. ....	519.53	389.65
Holiday. ....	538.18	
	<hr/>	
	\$8,291.85	\$4,074.01
Assessed on property benefitted. ....	4,074.01	
	<hr/>	
Cost to the City. ....		\$4,217.84

## SEWER MAINTENANCE

Repair of Sewers. ....	\$2,549.17	
Winter Expense. ....	457.80	
Pipe. ....	151.95	
Liability Insurance. ....	508.88	
Miscellaneous. ....	275.68	
Holiday. ....	121.05	
	<hr/>	
		\$4,064.53

## CATCH BASIN CONSTRUCTION

2 on Broadway. ....	\$212.17	
1 on Mt. Hope Ave. ....	119.47	
1 on Parkview Ave. ....	115.86	
1 on Lyndon Street. ....	37.70	
1 on Sanford Street. ....	119.40	
1 at Water Works. ....	49.00	
1 on Hammond Street. ....	113.77	
8 Holiday. ....	7.00	
	<hr/>	
		\$774.37

## CATCH BASIN MAINTENANCE

Cleaning Catch Basins. ....	\$4,989.00	
Repairing Catch Basins. ....	1,395.42	
Repairing Carts. ....	159.46	
Grates and Tops. ....	88.13	
Brick and Sand. ....	110.85	
Coats and Boots. ....	66.04	
Miscellaneous. ....	137.29	
Holiday. ....	633.60	
	<hr/>	
		\$7,579.79

AMOUNT OF NEW SEWERS

Nowell Road.....	788 feet of 10 inch pipe
Fourth Street.....	187 feet of 8 inch pipe
Mt. Hope Ave.....	135 feet of 8 inch pipe
Parkview Ave.....	407 feet of 10 inch pipe
Drummond and Nelson Streets.....	1000 feet of 10 inch pipe
Hammond, East and Webster Ave.....	890 feet of 12 inch pipe
Kineo Street.....	360 feet of 8 inch pipe
Stone Street.....	310 feet of 8 inch pipe
Katahdin Street.....	460 feet of 8 inch pipe
Plaistead Street.....	483 feet of 8 inch pipe
Center Street.....	25 feet of 10 inch pipe
Connections.....	240 feet of 8 inch pipe
<hr/>	
Total.....	5285 feet

The Catch Basins were cleaned as often as necessary at an expense of \$4,989.00.

Eight Catch Basins were constructed on old Sewers and one on new Sewers making the total number of Catch Basins in the City 1289.

One mile of Sewers built during the year makes the total amount of Sewers in the City about forty-nine miles.

SEWERS PETITIONED FOR AND NOT  
CONSTRUCTED

- Birch Street Extension above Mt. Hope Ave.
- Fourteenth Street from Union to Allen.
- Extension of the Fourteenth Street Sewer to the Stream.
- Rutland Street from Manners Avenue running East.
- Seventeenth Street from Ohio to Union.

Attached to this report is a schedule of the property of this Department.

Respectfully submitted,  
WM. E. GIVREN,  
Superintendent of Sewers.

## Schedule of Property of the Sewer Department

### City Hall Office

- |                                |                                    |
|--------------------------------|------------------------------------|
| 1 Roll top desk                | 1 Wall map of West side Sewers     |
| 1 Office chair                 | 4 Sewer plan books                 |
| 1 Wall map of East side sewers | 1 Sewer Department loose leaf book |
| 1 Bookcase and books           |                                    |

### Store House—Second Street

- |  |                               |
|--|-------------------------------|
| 5 Sewer carts                              | $\frac{1}{2}$ Doz. exploders  |
| 1 Single dump cart                         | 1 Set of battery wires        |
| 1 Water cart with gasolene engine and pump | 1 Stiff leg derrick with drum |
| 1 Sounding pole                            | 1 Tripod derrick              |
| 2 Iron rung ladders                        | 1 Boom derrick                |
| 2 Catch basin tripods                      | 2 Tool boxes                  |
| 2 Wooden horses                            | 3 Picks                       |
| 8 Pails                                    | 2 Crowbars                    |
| 10 Short shovels                           | 1 Chisel bar                  |
| 5 Long shovels                             | 1 Pick pole                   |
| 3 Scoop shovels                            | 2 Pokers                      |
| 1 Snow shovel                              | 1 Rammer                      |
| 1 Steam boiler on wheels                   | 2 pair timber tongs           |
| 1 Steam drill                              | 2 Timber carriers             |
| 14 Pieces steam drill steel                | 1 Carrier with flange wheels  |
| 2 Steam drill pumps                        | 1 Sewer cleaning machine      |
| 12 Ft. hand drill steel                    | 1 Scoop scraper               |
| 1 Spoon                                    | 1 Barrel sieve                |
| 1 Portable blacksmith's forge              | 3 Trench bracing screws       |
| $\frac{1}{2}$ Box dynamite                 | 1 Heavy chain                 |
|  | 2 Binding chains              |
|  | 1 Box stove                   |

### Second Street Yard

- |                       |                       |
|-----------------------|-----------------------|
| 200 Feet 24 inch pipe | 525 Feet 12 inch pipe |
| 26 Feet 18 inch pipe  | 114 Feet 10 inch pipe |
| 895 Feet 8 inch pipe  |                       |

**Court Street Storehouse**

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| 14 Feet 18 inch pipe            | 8 Feet 12 inch pipe               |
| 2 Feet 15 inch pipe             | 24 Feet 10 inch pipe              |
| 24 Feet, 8 inch pipe            | 2 Stilson wrenches                |
| 12 Long shovels                 | 1 3-Foot stilson wrench           |
| 3 Short shovels                 | 2 Monkey wrenches                 |
| 3 Iron snow shovels             | 2 Hydrant wrenches                |
| 1 Scoop shovel                  | 1 Reducer                         |
| 2 Drums for Kerosene            | 1 Hacksaw                         |
| 6 Hammers                       | 1 Bit stock                       |
| 2 Axes                          | 19 Lanterns                       |
| 7 Pails                         | 2 Brush brooms                    |
| 4 Chisel bars                   | 2 Catch basin cleaning ropes      |
| 3 Pinch bars                    | 2 Catch basin lowering ropes      |
| 28 Feet drill steel             | 2 Levels                          |
| 2 Spoons                        | 4 Rubber coats                    |
| 4 Rammers                       | 8 Pairs rubber boots              |
| 5 Wedges                        | 4 Rubber hats                     |
| 2 Blasting batteries and wires  | 1 Bundle of wire                  |
| 80 Feet square cleaning rods    | 1 Coal stove                      |
| 30 Feet round cleaning rods     | 1 Suction pump with hose          |
| 1 Test hole auger               | 4 Bags cement                     |
| 1 3 inch auger                  | 400 Brick                         |
| 2 Crank handles                 | 2 Wheel barrows                   |
| 7 Trench bracing screws         | 2 Water barrels                   |
| 6 Feet chain                    | 1 Mortar hoe                      |
| 1 Set self holding blocks, iron | 1 Set of wheels for gasolene pump |
| 1 Set wooden blocks             | 1 Wheel and rope for hoisting     |
| 2 Hoisting blocks               | 9 Catch basin tops                |
| 1 Fire nozzle                   | 1 Manhole top                     |
| 1 Self propelling nozzle        | 1 Mortar pen                      |
| 8 Lengths fire hose             | 2 x 4 Fencing                     |
| 100 Feet garden hose            | Staging plank                     |
|                                 | 1 Iron catch basin trap           |



# Report of the Water Board



# BANGOR WATER BOARD

1922

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THE MAYOR, President, *ex-officio*

FRANK P. DENACO.....Term expires March, 1923  
HAYWARD C. DUNHAM.....Term expires March, 1923  
MILTON S. CLIFFORD.....Term expires March, 1924  
JOSEPH E. FRIEND.....Term expires March, 1924  
WILLIAM S. HIGGINS.....Term expires March, 1925  
HOSEA B. BUCK.....Term expires March, 1925

WALTER I. BROWN, Clerk

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## STANDING COMMITTEES

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### ADVISORY COMMITTEE

W. S. Higgins                      M. S. Clifford                      H. C. Dunham

### AUDITING COMMITTEE

F. P. Denaco                      H. B. Buck                      J. E. Friend

### DAM AND WATER WORKS

F. P. Denaco                      W. S. Higgins                      M. S. Clifford

### LAND DAMAGES COMMITTEE

H. B. Buck                      H. C. Dunham                      J. E. Friend

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## OFFICERS

Melville A. Sinclair.....Superintendent  
John W. Dougherty.....Chief Engineer Pumping Station  
Walter I. Brown.....Clerk and Collector  
Geo. M. Graffam, C. P. A.....Auditor  
Thomas V. Campbell.....Inspector  
A. W. Blaisdell.....Inspector  
Prof. Jas. M. Caird, Troy, N. Y.....Consulting Chemist  
A. C. Powell.....Resident Chemist  
S. Madelene Abbott.....Assistant Water Board Office  
Edna B. Pickard.....Assistant Water Board Office  
Doris E. Moors.....Assistant Supt. Office

## BANGOR WATER BOARD

Date of Election and Length of Service of Members, 1875-1921

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*Geo. Stetson . . . . .	1875-1887
*W. T. Pearson, resigned, and	
*G. L. Boynton, elected . . . . .	1875-1877
*L. H. Eaton . . . . .	1875-1877
*A. G. Wakefield . . . . .	1877-1879
*J. S. Ricker . . . . .	1877-1879
*M. S. Drummond . . . . .	1877-1880
*Sprague Adams . . . . .	1877-1879
*Hiram B. Williams . . . . .	1877-1887
*Geo. Savage . . . . .	1877-1878
*Hiram H. Fogg . . . . .	1878-1893
*Thomas W. Vose . . . . .	1879-1901
*Wm. Conners . . . . .	1879-1883
*Silas D. Jones . . . . .	1879-1885
*John L. Cutler . . . . .	1880-1891
*T. U. Coe . . . . .	1883-1886
*Charles I. Collamore . . . . .	1885-1900
*James Adams . . . . .	1886-1903
*Thomas White . . . . .	1887-1896
Hugh R. Chaplin . . . . .	1891-1894
Chas. S. Pearl . . . . .	1893-1896
*James H. Snow . . . . .	1894-1897
*T. U. Coe . . . . .	1896-1905
*W. W. Fellows . . . . .	1896-1899
*Warren A. Bragg . . . . .	1897-1906
*Charles F. Bragg . . . . .	1899-1905
Milton S. Clifford . . . . .	1900-1906
William Z. Clayton . . . . .	1901-1904
*William W. Fellows . . . . .	1904-1907
George E. Wharff . . . . .	1904-1907
Freeland Jones . . . . .	1905-1908
*Jas. B. Mullen . . . . .	1905-1911
Jas. F. Singleton . . . . .	1906-1909
*Edward S. Perry . . . . .	1906-1909
*Charles F. Bragg . . . . .	1907-1910
Arthur Chapin . . . . .	1907-1910
Milton S. Clifford . . . . .	1908-1911



F. Parker Denaco . . . . .	1909-1912
*William H. Gorham . . . . .	1909-1912
William S. Higgins . . . . .	1910 Now in office
*Patrick J. Feeney . . . . .	1910-1912
*Flavius O. Beal . . . . .	1911-1913
John F. Woodman . . . . .	1911-1915
Milton S. Clifford . . . . .	1912 Now in office
Albert L. Blanchard . . . . .	1912-1921
Bernhard M. Kirstein . . . . .	1912-1915
John H. Rice . . . . .	1913-1914
F. Parker Denaco . . . . .	1914 Now in office
*Flavius O. Beal . . . . .	1916-1920
Hosea B. Buck . . . . .	1916 Now in office
Hayward C. Dunham . . . . .	1920 Now in office
Joseph E. Friend . . . . .	1921 Now in office

\*Deceased

#### PRESIDENTS OF THE BOARD, *ex-officiis*

Mayor, *Augustus C. Hamlin . . . . .	1877-1879
“ *William Brown . . . . .	1879-1881
“ *Lysander Strickland . . . . .	1881-1883
“ *Frederick A. Cummings . . . . .	1883-1884
“ *Samuel F. Humphrey . . . . .	1884-1885
“ *Edward B. Nealley . . . . .	1885-1887
“ *Charles F. Bragg . . . . .	1887-1890
“ Edward H. Blake . . . . .	1890-1891
“ *Joseph F. Snow . . . . .	1891-1892
“ *Flavius O. Beal . . . . .	1892-1895
“ *Charles L. Snow . . . . .	1895-1896
“ *Flavius O. Beal . . . . .	1896-1899
“ Arthur Chapin . . . . .	1899-1902
“ *William Engel . . . . .	1902-1903
“ *Flavius O. Beal . . . . .	1903-1905
“ William B. Pierce . . . . .	1905-1907
“ John F. Woodman . . . . .	1907-1911
“ Charles W. Mullen . . . . .	1911-1913
“ *Flavius O. Beal . . . . .	1913-1914
“ John G. Utterback . . . . .	1914-1915
“ *Frank Robinson . . . . .	1915-1915
“ John F. Woodman . . . . .	1916-1920
“ Jarvis B. Woods . . . . .	1920-1922
“ Albert R. Day . . . . .	1922-

\*Deceased

## Report of the Water Board

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Bangor, Me., January 1, 1922.

*To the City Council, Bangor, Maine:*

Gentlemen:

The Bangor Water Board has changed its fiscal year to conform with the other City Departments, hence this our 47th Annual Report covers a period of ten months.

By restricting extensions and making only necessary repairs it has been possible to operate within our income. Already demands have been made which it will be impossible to grant without the financial assistance of the City Council.

It might be advisable to give your Honorable Body some idea of the amount of work connected with the operation of the Water Department.

The Clerk and Collector reports all water taxes paid to Jan. 1st, 1922. During a year this Department send out and collect about 30,000 bills. A large number of other detail matter has to pass through this office.

The Superintendent's report tells of the activity of the past season during which 3549 feet of mains were laid, making a total of 58 1011-5280 miles of mains in the distribution system. Fourteen new valves were placed making a total of 717; four new hydrants were set making a total of 346 and eighty four new services were installed making a total connected with the system of 5423.

During the year the Inspectors made the usual house to house inspection.

The report of the Pumping Engineer shows a total of 1,207,-699,000 gallons of water pumped to the City during the ten months or an average of 4,270,258 gallons per day.

The reports from the State Board of Health indicate that the quality of the water is satisfactory for domestic uses. These reports confirm the results obtained in our laboratory.

The report of the Chemist and Bacteriologist gives the operation results of the filtration plant in detail and makes comparisons with past years. During the year 2,100 samples of water were examined.

This Department also examined fifty samples of milk and twenty-three samples of water for the City Health Department.

Serious consideration has been given to new sources of supply, estimates indicate that the present cost of the same would be from 5 to 6 million dollars or about 25 to 30 percent of the present valuation of the City, at the present time this is out of the question.

No matter what is done, it will be necessary in the near future to install an additional stand pipe for the storage of water and to also make extensive repairs to the flume at the dam, so that constant power will be insured to both the Water and Light Departments.

We wish to extend a special invitation to the Members of the City Council and to all citizens to personally visit and inspect the Pumping Station and Filtration Plant and become familiar with the method of producing this safe water supply.

Permit us to express our appreciation of the co-operation of the City Council in the past and we hope to have your support in the future.

Respectfully submitted,

Jarvis B. Woods, Mayor  
Frank P. Denaco  
William S. Higgins  
Hosea B. Buck  
Milton S. Clifford  
Jos. E. Friend  
Hayward C. Dunham

Members of the  
Water Board

## Report of the Superintendent

---

December 31, 1921.

*To the Bangor Water Board:*

Gentlemen:—I respectfully present the forty-seventh annual report of the Superintendent for the year ending December 31, 1921.

### STREET MAINS

Street mains have been laid the past year as follows:

Location	Feet	Size in Inches
Ricker Lane . . . . .	207	2
Center St., from end of pipe laid before, south . . . . .	135	2
Poplar St., from end of pipe laid before, west . . . . .	163	6
Hersey Ave., from 14th St., north . . . . .	727	6
Bryant St., from Hersey Ave., east . . . . .	457	6
Woodbury St., from Hersey Ave., east . . . . .	436	6
Elizabeth Ave., from end of pipe laid before, east . . . . .	190	6
Dillingham St., from end of pipe laid before, north . . . . .	108	6
Fountain St., from Congress, north . . . . .	146	6
Plaisted St., from Hammond, north . . . . .	400	6
Pearl St., from Mt. Hope Ave., north . . . . .	430	6
Central St., from Hammond, north . . . . .	150	8

Total number of feet of mains laid for the year 3549; the total number of miles connected with the system at present is 58 1011-5280.

We have already received several applications for mains to be laid in new streets in 1922; if this work is done it will undoubtedly be a very busy year.

## SERVICE PIPES

More new services have been added the past year than in any one year since 1915.

New	Renewed	Disconnected	Cleaned
84	62	3	348

Total number of services connected with the system, 5423.

## METERS

We have one hundred (100) meters in service; the sizes range from  $\frac{5}{8}$  to 6 inches. All have been cleaned, repaired and tested and are now in excellent condition.

## VALVES

The valves are in good working condition; they have been inspected as usual; repairs have been made where necessary. Many of the valve boxes have been raised to conform to the grade of the street.

Valves have been set as follows:

Location	Size in Inches
Ricker Lane . . . . .	2
Pearl and Mt. Hope Avenue . . . . .	6
Plaisted and Hammond . . . . .	6
Center and Prospect . . . . .	6
Woodbury St. and Hersey Ave., on hydrant line . . . . .	6
Woodbury St. and Hersey Ave. . . . .	6
Bryant and Hersey Ave. . . . .	6
Bryant St. and Hersey Ave., on hydrant line . . . . .	6
West Broadway and Savage, on hydrant line . . . . .	6
Second St., on Bangor Mattress Co.'s fire service line . . . . .	6
Central St., on hydrant line . . . . .	6
Pleasant St., on A. B. Haskell Co.'s fire service line . . . . .	6
Central and Hammond (A. P. Smith valve) . . . . .	8
Central and Hammond . . . . .	8
Total number set for year . . . . .	14

## VALVE DATA

Size in Inches.....	1½	2	4	6	8	12	16	20	24
Number of each.....	1	47	171	405	60	16	5	11	1
Total number connected with the system, 717.									

## FIRE HYDRANTS

All the fire hydrants are in good working condition. The usual careful attention has been given them during the winter months, and at all times all of them have been in good order.

Four (4) have been added during the year.

Location	Pres.	Make
Central St., west of bridge, (on east side of Central St.).....	110	M
Bryant St., and Hersey Ave.....	50	M
Woodbury St., and Hersey Ave.....	50	M
West Broadway and Savage.....	50	M
Total number connected with the system—346.		

## STREET-WATERING STANDPIPES

The number and location of the street-watering standpipes which are used for street sprinkling purposes are as follows:

EAST SIDE OF CITY	WEST SIDE OF CITY
Congress and Center	Allen and Hammond
Elm, near Schoolhouse	Broad, opposite Water
Fern and State	Buck and Main
Franklin, north side of Street	Cedar and Main
Grant and Linden	Cottage, near Ohio
Hancock and Birch	Cottage, near Union
Hancock and Oak	Court, near Clark
Harlow and Curve	James and Union
Kenduskeag Ave. and Jefferson	Lincoln and Third
Market and Cumberland	Main, near City Farm
Newbury and York	Main, opposite Patten
North Park, between Broadway and Stillwater Ave.	Main, opposite railroad bridge
Palm and Garland	Ohio, near 14th Street
Parkview and Mt. Hope Avenues	Ohio and George
Pine and State	Pond and Cedar
Somerset and Pine	Railroad, near Front
State, near Otis	Royal Road
	Second, near Water Dept. Yard

Summit Ave. and State  
Washington and Hancock  
York, opposite Adams

Summer and Union  
Third and Cedar  
Union and Hammond  
Union and Seventeenth  
Warren and Fourth  
West Broadway and Hammond

Total number connected with the system, 44.

### LEAKS

Nineteen (19) leaks have occurred during the year, all were in service pipes; all were repaired without any difficulty. One fire hydrant was broken off; it was hit by a building that was being moved.

### STANDPIPE

The standpipe has been cleaned and the surface on the inside painted. The superstructure has been thoroughly repaired also painted. It was necessary to renew the canvas covering on the superstructure deck.

### DEPARTMENT BUILDINGS

The department buildings are in very good condition. We have painted the rooms of the pumping station and wheelhouse.

The storehouse on Second St., and the fence around the pipe yard should be painted the coming year.

### DAM AND PIERS

Our crew is at present making slight repairs to the fishway to strengthen it for the Spring freshet; this coming year it will be necessary to rebuild this structure with concrete. The department will also renew some of the planking on the dam this winter but aside from these slight repairs the dam is in good condition.

## FILTER PLANT

The filter plant is in excellent working condition. We have cleaned and repaired six units during the year; it will be necessary to clean and repair two more this coming year. I recommend that the rooms in the filter building be painted.

I wish to extend my thanks to the Mayor, Water Board, Officers and Employees of the department for their efficient cooperation during the year.

Respectfully submitted,

M. A. Sinclair,

Superintendent.



## Report of the Water Collector

Bangor, Me., January 1, 1922.

*To the Bangor Water Board:*

Gentlemen:—Complying with the revised city ordinance, it becomes necessary at this time to submit the forty-seventh annual report of this department, which will show the receipts, statement of the operating accounts and other detail for a period of ten months, from March 1, 1921 to January 1, 1922.

### CASH STATEMENT

On hand March 1st, 1921 . . . . .	\$95.25	
Received from general water accounts from March 1, 1921 to January 1, 1922 . . . . .	82,189.33	
Received from schedule rates, prepaid in advanced . .	1,511.09	
Received from fines, delinquent water customers . .	134.84	
Received from automatic fire service rates . . . . .	415.80	
Received from water supplied to circus . . . . .	10.00	
		————— \$84,356.31
Received from Pennsylvania Salt Mfg. Co., refund for returned empty cylinders . . . . .	\$1,562.72	
Received from sale of cast iron pipe, scrap cloth bags, oil barrels and miscellaneous merchan- dise . . . . .	313.39	
Received from sale of chlorine gas . . . . .	14.28	
Received from sale of grass, State St. lot . . . . .	18.00	
Received from installing automatic fire services . . .	364.92	
Received from refund on lot, brick . . . . .	47.20	
Received from fire hydrant sold and repairs to broken hydrant . . . . .	64.84	
		————— \$2,385.35
		————— \$86,741.66

## CONTRA

Paid Thomas G. Donovan, City Treasurer . . . . .	\$86,500.00	
Cash on hand, December 31, 1921 . . . . .	241.66	
		\$86,741.66

The total refunds for vacancies and non-use of fixtures for the 10 month's period was \$73.53, same was paid from the petty cash fund.

## CHARGES ON WATER LEDGERS

Amount per schedule ledger from March 1st, 1921 to January 1, 1922 . . . . .	\$59,340.31	
Amount per meter ledger . . . . .	22,859.02	
Amount per merchandise ledger . . . . .	2,385.35	
Amount to Charitable Institutions . . . . .	2,357.60	
Automatic Fire Services . . . . .	415.80	
Prepaid rates, advance of January 1, 1922 . . . . .	1,511.09	
Amount received for delinquent fines . . . . .	134.84	
		\$89,004.01
Add the amount appropriated by the City Council and carried to the sinking fund in lieu for water furnished to the various City Departments . . . . .		\$12,000.00
Shows the total credit for the department . . . . .		\$101,004.01

## NON-PAYMENT OF WATER RATES

It became necessary to shut off the water service for non-payment of rates at but two premises. It is with considerable satisfaction that we again are able to report the payment of all water rates for the period ending December 31st, 1921.

## TURN-ON AND SHUT-OFF RECORD

Five hundred fifty-four orders have been issued for turning on water and removing seals from fixtures. Three hundred fifty-four orders have been issued for shutting off water on account of vacancies and seals applied to fixtures at the request of owners.

The following amounts represent an estimate of the water furnished the different City Departments.

Incidental Account.....	\$921.00
School Department.....	1,610.25
Highway Department.....	1,312.50
Fire Department.....	8,051.50
Pauper Department.....	222.50
Electric Department.....	62.00
Police Department.....	111.00
Park Department.....	350.00
Water Department.....	117.00
Sewer Department.....	400.00

There were 84 new services installed during the past season and the fixtures connected therewith, together with those returned by the Inspectors which had not been reported by the plumbers in their month to month returns, amounted to \$1,769.57. Classification of the various fixtures reported:

86 Sinks	3 Slop Hoppers
129 Water Closets	1 Washing Machine
107 Bath Tubs	2 Glass Washers
2 Shower Baths	4 Soda Fountain Sinks
133 Wash Bowls	2 Counter Faucets
70 Set Wash Tubs	1 Air Pump
10 Plain Faucets	2 Carbonators
89 Sill Faucets	2 Urinals
12 Cellar Faucets	1 Drinking Fountain
2 Garage Faucets	1 Bottle Washer
2 Stable Faucets for	1 Washing Machine
2 horses and 4 cows	2 Chair Bowls
20 Heaters, 16 Steam and 4 Hot	1 Six Inch Automatic Fir Service
Water	with 157 heads

The Inspectors, Mr. T. V. Campbell and Mr. A. W. Blaisdell have made the usual house to house inspections.

### YEARLY REVENUE

Statement of the yearly revenue received from water service since the introduction of the Water Works in 1875:

From introduction to March 14, 1877.....	\$ 7,198.55
From March 14, 1877 to March 14, 1878.....	11,835.75
From March 14, 1878 to March 14, 1879.....	20,269.50
From March 14, 1879 to March 14, 1880.....	20,970.50
From March 1, 1880 to March 8, 1881.....	23,133.00
From March 8, 1881 to March 15, 1882.....	26,014.00

From March 15, 1882 to March 14, 1883.....	26,408.00
From March 14, 1883 to March 14, 1884.....	26,947.61
From March 14, 1884 to March 14, 1885.....	28,052.00
From March 14, 1885 to March 16, 1886.....	35,875.75
From March 16, 1886 to March 16, 1887.....	33,465.57
From March 16, 1887 to March 13, 1888.....	35,118.97
From March 13, 1888 to March 12, 1889.....	37,316.61
From March 12, 1889 to March 13, 1890.....	40,552.12
From March 13, 1890 to March 10, 1891.....	44,668.30
From March 10, 1891 to March 10, 1892.....	46,864.09
From March 10, 1892 to March 10, 1893.....	47,763.19
From March 10, 1893 to March 10, 1894.....	49,878.83
From March 10, 1894 to March 1, 1895.....	53,405.30
From March 1, 1895 to March 1, 1896.....	56,005.43
From March 1, 1896 to March 1, 1897.....	59,173.21
From March 1, 1897 to March 1, 1898.....	63,447.10
From March 1, 1898 to March 1, 1899.....	66,766.72
From March 1, 1899 to March 1, 1900.....	66,610.91
From March 1, 1900 to March 1, 1901.....	60,300.68
From March 1, 1901 to March 1, 1902.....	61,673.52
From March 1, 1902 to March 1, 1903.....	64,362.83
From March 1, 1903 to March 1, 1904.....	66,559.27
From March 1, 1904 to March 1, 1905.....	66,829.59
From March 1, 1905 to March 1, 1906.....	71,222.24
From March 1, 1906 to March 1, 1907.....	75,001.98
From March 1, 1907 to March 1, 1908.....	76,875.63
From March 1, 1908 to March 1, 1909.....	78,738.09
From March 1, 1909 to March 1, 1910.....	81,812.92
From March 1, 1910 to March 1, 1911.....	81,615.38
From March 1, 1911 to March 1, 1912.....	95,579.94
From March 1, 1912 to March 1, 1913.....	98,895.00
From March 1, 1913 to March 1, 1914.....	102,888.18
From March 1, 1914 to March 1, 1915.....	103,242.02
From March 1, 1915 to March 1, 1916.....	105,122.71
From March 1, 1916 to March 1, 1917.....	108,158.94
From March 1, 1917 to March 1, 1918.....	110,260.18
From March 1, 1918 to March 1, 1919.....	110,726.36
From March 1, 1919 to March 1, 1920.....	114,376.36
From March 1, 1920 to March 1, 1921.....	118,410.15
From March, 1, 1921 to January 1, 1922, (10 months)...	98,618.66

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\$2,879,002.64

I am most appreciative of the many courtesies shown me by the Mayor, Members of the Water Board, the Superintendent and the Employees of the Department.

Respectfully submitted,

Walter I. Brown,

Clerk and Collector.

February 20, 1922.

## CERTIFICATE

I hereby certify that this report is based upon an examination of the books and accounts of the Bangor Water Board for the period begun on March 1, 1921 and ended on December 31, 1921. The statements published herewith are in accordance with the General Ledger. To the best of my knowledge and belief they are correct.

Respectfully submitted,

George M. Graffam,

Certified Public Accountant.

## Balance Sheet—December 31, 1921

## ASSETS

Fixed Capital June 30, 1915 . . . . .	\$1,474,330.17
Fixed Capital since June 30, 1915	100,439.98
Cash . . . . .	241.66
Petty Cash . . . . .	700.00
City of Bangor . . . . .	3,568.47
Accounts Receivable . . . . .	396.51
Materials and supplies . . . . .	17,109.22
Special deposit for outstanding coupons . . . . .	50.00
Sinking Fund Uninvested . . . . .	682.94
Sinking Fund Invested:	
4½% Govt. bonds . . . . .	168,200.00
4% Bangor Water bonds . . . . .	1,000.00
4½% Bangor Municipal bonds . . . . .	8,000.00
4% Bangor Municipal bonds . .	3,000.00
4% Rumford & Mexico Water District bonds . . . . .	2,500.00
4% County of Washington (Me.) . . . . .	3,000.00
	<hr/>
	\$185,700.00

## Prepaid Expense:

Insurance . . . . .	546.50	
Purification supplies . . . . .	5,051.23	
		5,597.73
Total Assets . . . . .		<u>\$1,788,816.68</u>

## LIABILITIES

Funded Debt bond . . . . .		\$500,000.00
Bond Interest Matured:		
January 1, 1921 . . . . .	20.00	
July 1, 1921 . . . . .	30.00	
January 1, 1922 . . . . .	10,000.00	
		<u>10,050.00</u>
Prepaid Commercial Sales . . . . .		65.40
Sinking Fund Reserve . . . . .		186,382.94
Depreciation Reserve . . . . .		122,126.73
Surplus . . . . .		970,191.61
		<u>\$1,788,816.68</u>
Total Liabilities . . . . .		\$1,788,816.68

## STATEMENT OF OPERATING ACCOUNTS

10 Months—December 31, 1921

## REVNEUE

Commercial Sales . . . . .	\$75,560.67
Industrial Sales . . . . .	11,902.20
Fines . . . . .	134.84
Merchandise Sales . . . . .	98.90
Miscellaneous non-operating revenue . . . . .	53.00
	<u>          </u>
Gross revenue . . . . .	\$87,749.61

## EXPENSES

Pumping labor . . . . .	\$6,333.93
Fuel for Steam . . . . .	1,616.43
Lubricants . . . . .	447.24
Other supplies and expenses . . . . .	821.04
Maintenance pumping station structures . . . . .	2,760.39

Maintenance dams and piers . . . . .	1,218.71	
Maintenance pumping station equipment . . . . .	81.17	
Other Maintenance expense . . . . .	92.67	
Purification labor . . . . .	7,093.22	
Purification supplies and expense . . . . .	6,390.25	
Maintenance of purification system . . . . .	2,916.86	
Distribution of labor . . . . .	3,425.73	
Water meter installation work . . . . .	112.75	
Work on consumers' premises . . . . .	1,304.61	
Distribution supplies and expense . . . . .	722.13	
Maintenance of reservoirs and standpipes . . . . .	3,123.25	
Maintenance of distribution mains . . . . .	1,987.54	
Maintenance services . . . . .	5,499.17	
Maintenance of meters . . . . .	1,991.83	
Maintenance of fire hydrants . . . . .	170.33	
Maintenance of fountains and troughs . . . . .	19.80	
Other distribution maintenance . . . . .	93.87	
Commercial salaries and expenses . . . . .	3,908.40	
Commercial office supplies and expenses . . . . .	763.07	
Salaries and expenses of general officers . . . . .	2,529.15	
Salaries and expenses of general office clerks . . . . .	695.00	
General office supplies and expense . . . . .	300.32	
General expense . . . . .	96.87	
Insurance . . . . .	1,142.67	
Stable and garage expense . . . . .	871.09	
Storeroom expense . . . . .	566.60	
Miscellaneous adjustments . . . . .	269.56	
Taxes . . . . .	40.08	
		<hr/>
Total Operating Expenses . . . . .		\$59,405.73
		<hr/>
Net Operating Revenue . . . . .		\$28,343.88

## OTHER DEDUCTIONS

Interest Deductions . . . . .	\$16,666.66	
Refunds . . . . .	83.53	
Abatements . . . . .	406.60	
Sinking fund expense . . . . .	40.00	
Depreciation and contingencies . . . . .	14,114.62	
		<hr/>
Total Deductions . . . . .		\$31,311.41
		<hr/>
Net loss deducted from surplus . . . . .		\$2,967.53



## CASH SUMMARY

Balance March 1, 1921 . . . . .	\$95.25
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## RECEIPTS

Water Revenue . . . . .	\$84,098.82
Fines . . . . .	134.84
Miscellaneous Sales and services . . . . .	396.61
Installation of fire services . . . . .	364.92
Containers Returned . . . . .	1,651.22
	<hr/>
Total Receipts . . . . .	\$86,646.41
	<hr/>
	\$86,741.66

## DISBURSEMENTS

Paid to the City Treasurer . . . . .	\$86,500.00
	<hr/>
Balance December 31, 1921 . . . . .	\$241.66

## FIXED CAPITAL JUNE 30, 1915

Balance March 1, 1921 . . . . .	\$1,474,330.17
No changes since March 1, 1921	

## FIXED CAPITAL SINCE JUNE 30, 1915

Balance March 1, 1921 . . . . .	\$91,433.60
Add:	
Hydraulic Power Pumping Equipment . . . . .	\$276.89
Purification System . . . . .	15.00
Distribution Mains . . . . .	5,648.06
Services . . . . .	1,993.61
Meters . . . . .	72.37
Hydrants and Fire Cisterns . . . . .	569.48
General Office Equipment . . . . .	153.25
Other Equipment . . . . .	291.96
	<hr/>
	\$9,020.62
	<hr/>
	\$100,454.22
Deduct:	
Stable and garage equipment exchange of trucks . . .	14.24
	<hr/>
Balance December 31, 1921 . . . . .	\$100,439.98

## SINKING FUND

## Invested and Uninvested

Balance March 1, 1921 . . . . .		\$164,516.73
Add:		
Annual appropriation . . . . .	\$12,000.00	
Interest on investments . . . . .	7,095.99	
Discount on investments purchased . . . . .	2,770.22	
	<hr/>	
Balance December 31, 1921 . . . . .		\$186,382.94

## SURPLUS ACCOUNT

Balance March 1, 1921 . . . . .		\$971,168.55
Add:		
Miscellaneous appropriation . . . . .		1,990.59
		<hr/>
City of Bangor . . . . .		\$973,159.14
Deduct:		
Net loss per Operating Statement . . . . .		2,967.53
		<hr/>
Balance December 31, 1921 . . . . .		\$970,191.61

## Report of the Pumping Station Engineer

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January 1, 1922.

*To the Bangor Water Board:*

Gentlemen:—Permit me to submit the report of the Pumping Station from March 1 to December 31, 1921.

The amount of water pumped is as follows:

1921	Gallons
March . . . . .	113,284,500
April . . . . .	108,099,100
May . . . . .	116,294,400
June . . . . .	132,651,200
July . . . . .	139,428,500
August . . . . .	129,940,150
September . . . . .	123,374,200
October . . . . .	115,517,800
November . . . . .	106,889,000
December . . . . .	122,220,30
Total . . . . .	1,207,699,150

This is a daily average of 3,946,729 gallons.

It has not been necessary to use the Steam Pump during the past ten months.

In October we over-hauled the two 42-inch water wheels that run the Generator, and rebabbited the bearings on wheel shafts and on main line.

All repairs have been only such as we could do in our own repair shop.

In closing I wish to thank the members of the Water Board and the Superintendent for their many courtesies, and the employees of the Pumping Station for their co-operation.

Respectfully submitted,

J. W. Dougherty,

Chief Engineer.

## Report of the Chemist and Bacteriologist

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Troy, N. Y., January 1, 1922.

*The Honorable, The Bangor Water Board, Bangor, Maine.*

Gentlemen:—Permit me to submit a review of the operation of the Filter Plant for the year ending December 31, 1921.

The plant is in charge of Mr. A. C. Powell, resident chemist and bacteriologist.

The results now cover a period of thirteen years, during which time much valuable data has been obtained.

The fiscal year has been changed to close December 31st, and the results have been figured accordingly.

In order to understand the results, a short description of the plant is not out of place.

The Penobscot River has been the source of the Bangor Water supply ever since the original pumps were installed in 1875.

The drainage area of the Penobscot River, above the water works intake, is about 7,700 square miles. The water is always highly colored, carries very little matter in suspension but is somewhat polluted, due to sewage, from several localities, waste from pulp mills and drainage from numerous farms.

In January 1897, a Warren Type Gravity Filter Plant was placed in operation; this plant was operated without any coagulant until 1905, and of course only removed the coarser suspended matter. As there was no coagulation basin, there was not sufficient time for the chemical reactions and the aluminum hydrate was not formed until after the water had passed the filters.

In 1908 the coagulation basin was completed and placed in operation. This basin is in use at the present time in connec-

tion with the modern filter plant. The basin has a capacity of 1,500,000 gallons, the water entering and leaving at the top, and as no baffles were installed the retention period was about two hours when operating at a rate of five million gallons per day.

A modern concrete gravity filter plant was placed in operation February 6, 1911, and consisted of six filter units. In 1912 the capacity of this plant was increased by the equipment of two blank units, so that at the present time this plant consists of eight units with a total sand area of 3,470 square feet.

During the year 1920 some baffles were placed in the basin, so that at the present time the retention period is about three hours when operating at a rate of five million gallons per day.

The usual mechanical filter plant with a similar sand area, operating at a rate of two gallons per square foot per minute, would have a capacity of about ten million gallons per day, but owing to the character of the water to be treated, this plant is operated at a rate not exceeding 1.6 gallons per square foot per minute. At this rate the capacity is eight million gallons per day, but of course, this rate could be exceeded under certain conditions.

This plant has been in operation for eleven years. During the past three years it has been necessary to remove the sand and clean the laterals and strainers in some of the units. This is the only trouble experienced to date with this plant.

During the year the sand was removed from six of the units, cleaned and replaced. Before replacing the sand six inches of gravel of a coarser grade was placed over the strainers. There therefore remain two units to be cleaned, with coarser gravel added, during the coming year.

The sand in the filters has an effective size of .55 to .59 mm. and a uniformity coefficient of 1.25 to 1.47.

At times of extreme cold weather ice has formed in the rear of the filter units, under the concrete deck, but this has been overcome by reducing the "head" of water on the sand beds, so that air may circulate freely under the filter decks.

In operating the filters during the cold weather, it is necessary to wash them every six or eight hours, otherwise they become

“air-bound” and permit undesirable water to pass. The “air-bound” conditions commence when the temperature of the water is below 45°F. When the water is warmer it is possible to operate the filters from sixteen to twenty-four hours between washings.

Table Showing Water Filtered, Bangor, Me.

Year	Filtered	
Avg. 5 yrs. (1909-14)	1,460,800,000 gallons	8.0% inc.
Avg. 5 yrs. (1914-19)	1,413,600,000 gallons	4.4% dec.
1919	1,468,000,000 gallons	6.3% inc.
1920	1,504,450,000 gallons	2.5% inc.
1921	1,519,920,000 gallons	1.3% inc.

The average amount of water treated during the past year was about 4,164,000 gallons per day.

Table Showing Waste Water, Bangor, Me.

Year	Waste	Percent
Avg.		
Avg. 5 yrs. (1909-14)	91,540,000 gallons	6.3%
Avg. 5 yrs. (1914-19)	92,954,400 gallons	6.6%
1919	124,736,000 gallons	8.7%
1920	108,705,200 gallons	7.3%
1921	97,465,100 gallons	6.4%

The amount of water wasted was 9.5% less than during the previous year.

The waste water includes that used for washing the filters and also that discharged from the coagulation basins when they are cleaned. The coagulation basins have a combined capacity of 1½ million gallons and are cleaned several times each year.

It is to be noted that since the new filter plant has been in operation there has been a reduction in the amount of waste water. As filtered water is used in washing the filters, this means a saving in the cost of operation.

During the year 5,237 filters were washed, an average of 14.3 per day. This is an increase of 80 units or 1.5%.

The average amount of water used in washing one unit was about 19,000 gallons, the unit being out of service about ten minutes for each wash.

Table Showing Water Delivered to Consumers, Bangor, Me.

Year	Delivered	
Avg. 5 yrs. (1909-14)	1,384,800,000 gallons	15.1% inc.
Avg. 5 yrs. (1914-19)	1,385,000,000 gallons	1.1% dec.
1919	1,344,000,000 gallons	2.6% dec.
1920	1,454,012,600 gallons	8.2% inc.
1921	1,445,214,240 gallons	0.6% dec.

The average amount of water delivered was about 3,959,000 gallons per day or a per capita consumption of about 164 gallons. These figures include a large amount of water used in washing the mains and street sprinkling.

The general operating results, by months, will be found in the following table.

The bacterial efficiency of the plant is shown in the following table; the results including a period of two years (1909-1911) with the old filters and ten with the new filters.

Table Showing Bacterial Removal, Bangor, Me.

Year	Basins	Filters	Total	Mains	Raw to Tap
Avg. 10 yrs. (1909-19)	82.35%	83.23%	96.44%	11.73%	97.08%
1919	83.04%	96.77%	99.46%	0.00%	99.46%
1920	82.71%	96.16%	99.17%	5.56%	99.21%
1921	82.47%	95.88%	99.28%	7.14%	99.33%
Avg. 3 yrs.	82.74%	96.27%	99.64%	4.23%	99.33%

During a portion of the ten years (1909-19) calcium hypochlorite or liquid chlorine was added to the water, while during the past three years liquid chlorine has been added at all times, the amount being 10.4 pounds per million gallons for the year 1921.

Since the new filters were placed in operation the bacterial efficiency of the plant has been good.

The bacterial content of the water is determined upon gelatin media incubated 48 hours at 20°C.

During the year the State Board of Health has examined the unfiltered and filtered waters several times; their results corresponding with the results obtained in the Water Board Laboratory, showing a high filter efficiency and that the quality of the filtered water is desirable for drinking purposes.

The removal of *B. Coli-communis*, the "intestinal bacillus" is also very satisfactory.

Table Showing Removal of *B. Coli-communis*, Bangor, Me.

Year	Basin and Filters	Mains	Raw to Tap
Avg. 10 yrs. (1909-19)	95.53%	83.34%	99.10%
1919	98.88%	66.67%	99.63%
1920	99.69%	62.07%	99.88%
1921	99.42%	100.00%	100.00%
Avg. 3 yrs.	99.33%	76.25%	99.84%

There has been a marked improvement in the removal of the *B. Coli-communis* since the new filters were placed in operation. This removal has also been greater since liquid chlorine has been applied to the water after it passes the coagulation basin and just before filtration.

During the past year, 1,825 samples of 1 c. c. each of the city tap water were examined for *B. Coli-communis*; all giving negative results.

The peculiar character of the water can best be seen from a study of the results in detail.

The unfiltered water always contains a high color, very little turbidity; and a low alkalinity. The bacterial content varies considerably; the intestinal bacillus, *B. Coli-communis*, is always present.

The turbidity is generally due to wood pulp.

Table Showing COLOR, in Parts per Million, Unfiltered Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	108.6	43.9	61.2
1919	100.0	53.0	65.3
1920	185.0	48.0	68.4
1921	80.0	48.0	54.3
Avg. 3 yrs.	121.7	49.7	62.7



The maximum color of the unfiltered water was 56.7% less; minimum the same and the average 20.6% less than the previous year.

Table Showing Range in COLOR, in Parts per Million, Unfiltered Water, Bangor, Me.

Color in parts per million	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-40	7	0	0	0	0
41-50	81	0	51	159	70
.51-60	140	244	160	143	182
61-70	77	45	80	56	60
Over 70	58	75	74	7	52

During the past year the color of the unfiltered water was above 70 parts per million on 7 days or 1.9% of the time.

Table Showing TURBIDITY, in Parts per Million, Unfiltered Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	23.4	0.0	.61
1919	5.0	0.0	.07
1920	15.0	0.0	.27
1921	10.0	0.0	.08
Avg. 3 yrs.	10.0	0.0	.14

During the past thirteen years the maximum turbidity of the unfiltered water has never been above 50 parts per million. A small amount of the turbidity in the unfiltered water is very desirable as it assists in the formation of the aluminum hydrate.

Table Showing Range in Turbidity, in Parts per Million, Unfiltered Water, Bangor, Me.

Turbidity parts per million	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-0	312	357	348	359	355
1-10	59	7	15	6	9
11-25	3	0	2	0	1
Over 25	1	0	0	0	0

During the past year the unfiltered water was free from turbidity on 359 days or 98.4% of the time.

Table Showing ALKALINITY, in Parts per Million, Unfiltered Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	15.5	7.0	11.3
1919	15.0	8.0	12.2
1920	15.0	7.0	11.6
1921	16.0	8.0	12.0
Avg. 3 yrs.	15.3	7.7	11.9

The average alkalinity of the unfiltered water was 3.5% higher than during the previous year.

Table Showing Range in ALKALINITY, in Parts per Million, Unfiltered Water, Bangor, Me.

Alkalinity parts per million	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-5	1	0	0	0	0
6-10	137	98	85	60	81
11-15	223	266	280	304	283
Over 15	4	0	0	1	1

During the past year the alkalinity of the unfiltered water was below 16 parts per million on 364 days or 99.7% of the time.

Table Showing BACTERIA, per c. c. Unfiltered Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	9,030	903	2,822
1919	5,200	1,100	1,828
1920	6,800	1,100	2,151
1921	5,200	1,000	1,939
Avg. 3 yrs.	5,733	1,067	1,973

The maximum number of bacteria per c. c. in the unfiltered water was 23.5% and the average 9.9% less than during the previous year.

Table Showing Range in BACTERIA, per c. c. Unfiltered Water, Bangor, Me.

Bacteria per c. c.	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-500	15	0	0	0	0
501-1,000	10	0	0	1	1
1,001-2,500	183	335	279	312	309
2,501-5,000	140	22	83	51	52
Over 5,000	14	1	3	1	2

During the past year the bacteria per c. c. in the unfiltered water were less than 2,500 on 313 days or 85.8% of the time.

During the past eight years the bacteria per c. c. in the unfiltered water have never been below 500.

Table Showing Tests for B. COLI-COMMUNIS, 1 c. c. Samples, Unfiltered Water, Bangor, Me.

Year	Samples Examined	Positive	Percent Positive
Avg. 10 yrs. (1909-19)	1108	919	82.9%
1919	1710	1580	92.4%
1920	1745	1607	92.1%
1921	1825	1722	94.4%
Avg. 3 yrs.	1760	1636	92.9%

The B. Coli-Communis in the unfiltered water was about the same as during the previous year.

A mineral analysis of the unfiltered water is made every month.

Table Showing MINERAL ANALYSIS, in Parts per Million, Unfiltered Water, Bangor, Me.

	Avg. 10 yrs. 1909-19	Avg. 1 yr. 1919	Avg. 1 yr. 1920	Avg. 1 yr. 1921	Avg. 3 yrs. 1919-21
Total Solids . . . . .	61.36	67.50	61.16	59.33	62.66
Loss on Ignition . . . . .	43.31	43.42	41.33	39.67	41.47
Mineral Residue . . . . .	23.04	24.08	19.83	19.66	21.19
Silicon . . . . .	1.87	1.79	1.98	1.88	1.88
Aluminum . . . . .	.97	.83	1.13	1.10	1.02
Calcium . . . . .	5.76	6.17	5.87	5.87	5.97
Magnesium . . . . .	1.89	1.15	1.29	1.69	1.38
Iron . . . . .	.22	.19	.19	.15	.18
Sulphates . . . . .	6.26	6.79	6.52	8.39	7.23

A complete sanitary examination of the unfiltered water is made each month, the results of which will be found in the following table.

Compared with the results of the previous year there was an increase in hardness and a reduction in total solids, carbon dioxide, color, nitrates, iron and albuminoid ammonia, while the chlorine remained the same.

The unfiltered water is pumped to a two-compartment, covered coagulation basin which has a combined capacity of 1,500,000 gallons. This basin is about 16 feet in depth and the water enters and leaves the basin near the surface.

During the year 1920 some baffles were installed within this basin, which have increased its efficiency.

Before the water enters this basin the coagulant, sulphate of alumina, is added and, owing to the low alkalinity of the unfiltered water, it is also necessary to add lime or soda-ash in order to get proper reactions.

When calcium hypo-chlorite was used (1910-17) it was applied to the water before it entered the coagulation basin.

The sulphate of alumina is purchased under specifications, and has been obtained from the Pennsylvania Salt Mfg. Co., Philadelphia, Penna., since 1910.

The specifications are as follows:

"Alumina, $\text{Al}_2\text{O}_3$ , not less than	17.50%
Acid, $\text{SO}_3$ , not more than	38.00%
Iron, $\text{Fe}_2\text{O}_3$ , not more than	.40%
Insoluble, not more than	.25%
Water, $\text{H}_2\text{O}$ , not more than	47.00%

If the results of the analysis show the Alumina ( $\text{Al}_2\text{O}_3$ ) to be below 17.5% and above 17.0% a deduction of seven cents per hundred pounds is made. If the alumina is below 17.0% and above 16.5% a deduction of fifteen cents per hundred pounds is made.

For each .25% or fraction thereof of Iron calculated as  $\text{Fe}_2\text{O}_3$  above .40% a reduction of five cents per hundred pounds is made.

The Sulphate of Alumina shall contain no free acid. It is understood that if the Alumina ( $Al_2O_3$ ) is over 17.5% the Acid ( $SO_3$ ) may be increased in the proper proportion."

Table Showing the Average Composition of the SULPHATE OF ALUMINA Used, Bangor, Me.

Table Showing the Average Composition of the SULPHATE OF ALUMINA Used, Bangor, Me.

Year	Alumina	Iron	Acid	Water	Insoluble
Avg. 10 yrs. (1909-19)	17.73%	.56%	39.82%	41.74%	.11%
1919	17.72%	.37%	39.75%	42.09%	.15%
1920	17.59%	.40%	38.98%	42.86%	.17%
1921	17.58%	.42%	39.57%	42.27%	.16%
Avg. 3 yrs.	17.63%	.40%	39.43%	42.41%	.16%

Since the sulphate of alumina has been purchased under specifications the composition has been more uniform and the salt has contained a high amount of alumina and a small amount of iron.

Table Showing Average Amount of Sulphate of Alumina, Lime, Soda-Ash, Calcium, Hypo-Chlorite, and Liquid Chlorine Used, in grs. per gallon.

Year	Alumina	Lime	Soda-Ash	Hypo- Chlorine
Avg. 10 yrs. (1909-19)	1.89	.22		.10 .02
1919	1.95	.14	.10	.06
1920	1.89		.18	.06
1921	1.80		.21	.07
Avg. 3 yrs.	1.88		.16	.06

During the year 1919 the use of lime was discontinued and soda-ash has been used to make up the deficiency in alkalinity.

The average amount of sulphate of alumina used was 4.7% less than during the previous year. The alkalinity of the filtered water has been increased in the hopes of reducing the iron in the filtered water and thereby reducing the growth of Crenothrix in the mains.

Liquid chlorine is added to the water after it has passed the coagulation basin and before filtration.

The growth of *Crenothrix* in the mains is causing serious trouble with the service pipes and at times makes the water look very unsightly. Up to the present time this method of operation has not prevented the growth of *Crenothrix*.

The use of lime or soda-ash increases the alkalinity of the filtered water and also "sets" the color in the water, therefore the color removal is not as high as previously.

The coagulation basins are of great value to this plant; during the past three years the basins have removed 82.74% of the bacteria.

In 1911 mixing baffles were installed and in 1919 other baffles were installed; these have increased the efficiency of the basins.

Table Showing BACTERIA, per c. c. in Water After Passing the Coagulation Basins, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	1,984	101	428
1919	580	150	310
1920	1,220	170	372
1921	1,140	140	340
Avg. 3 yrs.	980	153	341

The average number of bacteria per c. c. passing the basins was 8.6% less than during the previous year.

Table Showing Range of BACTERIA, per c. c. Coagulated Water, Bangor, Me.

Bacteria per c. c.	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-100	14	0	0	0	0
101-250	80	99	67	97	88
251-500	188	249	244	235	243
501-1,000	69	10	52	32	31
Over 1,000	24	0	2	1	1

During the past year the water passing the basins contained less than 501 bacteria per c. c. on 332 days or 90.9% of the time.

A mineral analysis of the filtered water is made every month.

Table Showing MINERAL ANALYSIS, in Parts per Million, Filtered Water, Bangor, Me.

	Avg. 10 yrs. 1909-19	Avg. 1 yr. 1919	Avg. 1 yr. 1920	Avg. 1 yr. 1921	Avg. 3 yrs. 1919-21
Total Solids . . . . .	61.04	69.33	62.42	60.58	64.11
Loss on Ignition . . . . .	34.83	35.08	31.67	30.25	32.33
Mineral Residue . . . . .	32.16	34.25	30.75	30.33	31.78
Silicon . . . . .	1.47	1.31	1.39	1.40	1.37
Aluminum . . . . .	1.30	.89	1.08	1.10	1.02
Calcium . . . . .	7.00	6.93	5.87	5.62	6.14
Magnesium . . . . .	1.79	1.02	1.14	1.52	1.23
Iron . . . . .	.14	.13	.14	.10	.12
Sulphates . . . . .	22.05	22.28	21.43	21.89	21.87

The plant removed 33.3% of the iron; however, the filtered water contained .10 parts per million of iron.

The coagulation basins have a concrete cover and it is therefore impossible to aerate the water. As the unfiltered water contains such a large amount of organic matter, aeration, no doubt, would remove some of the free carbonic acid gas from the water and assist in the removal of iron.

A sanitary examination of the filtered water is made every month; the results will be found in the following table.

Compared with the previous year there was a reduction in color, total solids, required oxygen, hardness, carbon dioxide, iron and albuminoid ammonia; and an increase in free ammonia, nitrates and chlorine.

A study of the results, in detail, will show the great improvement in the quality of the filtered water since the new filters have been in operation.

Table Showing ALKALINITY, in Parts per Million, Filtered Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	7.5	3.0	4.5
1919	8.0	4.0	6.2
1920	8.0	4.0	5.7
1921	8.0	5.0	5.9
Avg. 3 yrs.	8.0	4.3	5.9

It is to be noted that the average alkalinity of the filtered water has been increased, the object being to remove the iron

and carbonic acid from the water and in this way to starve the growth of Crenothrix in the mains.

Table Showing Range in ALKALINITY, in Parts per Million, Filtered Water, Bangor, Me.

Alkalinity parts million	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-5	302	53	126	67	82
6-10	63	311	239	298	283
Over 10	1	0	0	0	0

The alkalinity of the filtered water was below 6 parts per million on 67 days or 18.4% of the time, and was not below 5 parts per million during the entire time.

The average turbidity in the filtered water for the ten years (1909-19) was .13 parts per million. This was due to aluminum hydrate passing the coarse sand in the old filters.

During the past three years the water has been entirely free from turbidity.

Table Showing COLOR, in Parts per Million, Filtered Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	29.9	3.7	12.8
1919	45.0	8.0	16.0
1920	45.0	8.0	16.0
1921	25.0	6.0	12.7
Avg. 3 yrs.	38.3	7.3	14.9

The effect of increasing the alkalinity of the filtered water is reflected by an increase in color.

Table Showing Range in COLOR, in Parts per Million, Filtered Water, Bangor, Me.

Color in parts per million	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-20	313	311	311	356	326
21-30	30	42	38	9	30
31-40	12	9	12	0	7
Over 40	10	2	4	0	2



During the past year the color of the filtered water was below 21 on 356 days or 97.5% of the time.

Table Showing BACTERIA, per c. c. Filtered Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	620	7	81
1919	41	2	10
1920	84	3	18
1921	44	4	14
Avg. 3 yrs.	56	3	14

The average number of bacteria per c. c. in the filtered water was 22.2% less than during the previous year.

Table Showing Range in BACTERIA, per c. c. Filtered water, Bangor, Me.

Bacteria per c. c.	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-25	102	347	275	325	316
26-50	147	11	82	40	44
51-75	48	0	7	0	2
76-100	16	0	1	0	1
Over 100	52	0	0	0	0

The bacteria in the filtered water, during the past year were below 51 per c. c. during the entire time, and below 26 per c. c. on 325 days or 89.0% of the time.

Table Showing Tests for B. Coli-Communis, 1 c. c. Samples, Filtered Water, Bangor, Me.

Year	Samples Examined	Positive	Percent Positive
Avg. 10 yrs. (1909-19)	1,110	28	2.52%
1919	1,710	18	1.05%
1920	1,745	5	0.29%
1921	1,825	10	0.55%
Avg. 3 yrs.	1,760	11	0.63%

During the past year 1,825 samples of 1 c. c. each of the filtered water were examined for B. Coli-communis; only 10 or 0.55% gave positive results.

Each day a sample of city water is collected about 1- $\frac{1}{2}$  miles from the filter plant for examination.

A mineral analysis of the city tap water is made once each month.

Table Showing MINERAL ANALYSIS, in Parts per Million, City Tap Water, Bangor, Me.

	Avg. 10 yrs. 1909-19	Avg. 1 yr. 1919	Avg. 1 yr. 1920	Avg. 1 yr. 1921	Avg. 3 yrs. 1919-21
Total Solids . . .	67.10	71.09	61.91	60.33	64.44
Loss on Ignition.	34.84	36.67	31.58	29.42	32.56
Mineral Residue.	32.22	34.42	30.33	30.91	31.88
Silicon . . . . .	1.46	1.28	1.47	1.56	1.44
Aluminum . . . . .	1.30	.88	1.08	1.16	1.04
Calcium . . . . .	7.08	7.14	5.98	5.66	6.26
Magnesium . . . . .	1.79	1.00	1.17	1.50	1.22
Iron . . . . .	.14	.13	.14	.10	.12
Sulphates . . . . .	21.93	22.05	21.12	21.30	21.49

Once each month a complete sanitary analysis of the city tap water is made; the results will be found annexed.

Compared with the previous year, there was an increase in chlorine and free ammonia, and a decrease in iron, albuminoid ammonia, hardness, color, total solids, nitrates and carbon dioxide.

During the past eleven years the city tap water has been free from turbidity.

Table Showing COLOR, in Parts per Million, Tap Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	32.7	4.3	13.3
1919	43.0	8.0	16.1
1920	45.0	5.0	15.8
1921	25.0	6.0	12.8
Avg. 3 yrs.	37.7	6.3	14.9

The average color in the city tap water is higher than previously, due to the increase in the alkalinity.

Table Showing Range in COLOR, in Parts per Million, Tap Water, Bangor, Me.

Color in parts per million	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-20	312	316	318	359	331
21-30	28	40	36	6	27
31-40	14	5	10	0	5
Over 40	12	3	1	0	1

During the past year the color of the tap water was below 21 parts per million on 359 days or 98.4% of the time.

Table Showing BACTERIA, per c. c. Tap Water, Bangor, Me.

Year	Maximum	Minimum	Average
Avg. 10 yrs. (1909-19)	453	5	69
1919	40	2	10
1920	92	2	17
1921	32	4	13
Avg. 3 yrs.	55	3	13

The average number of bacteria per c. c. in the tap water was 23.5% less than during the previous year.

The average number of bacteria in the city tap water during the past three years was 13 per c. c., while during the ten years (1909-19) previous the average bacteria has been 69 per c. c.

Table Showing Range in BACTERIA per c. c. Tap Water, Bangor, Me.

Bacteria per c. c.	Avg. 10 yrs. 1909-19	Year 1919 Days	Year 1920 Days	Year 1921 Days	Avg. 3 yrs. 1919-21
0-25	123	349	275	321	315
26-50	146	9	85	44	46
51-75	31	0	4	0	1
76-100	16	0	1	0	1
Over 100	50	0	0	0	0

During the past year the bacteria in the city tap water were below 51 per c. c. during the entire time.

Table Showing Tests for B. COLI-COMMUNIS, 1 c. c. Samples, Tap Water, Bangor, Me.

Year	Samples Examined	Positive	Percent Positive
Avg. 10 yrs. (1909-19)	1110	7	0.63%
1919	1710	6	0.35%
1920	1745	2	0.11%
1921	1825	0	0.00%
Avg. 3 yrs.	1760	3	0.17%

During the past year 1825 samples of 1 c. c. each were examined for B. Coli-communis; all giving negative results.

As a whole, the results show that a water of good sanitary quality was delivered to the consumers.

It will be necessary to overhaul two of the filters during the coming year, and I would suggest that when this is done additional coarse material be placed over the strainer system, and it will therefore be unnecessary to purchase any sand to bring the beds up to the proper depth.

Steps should be taken to prevent the further pollution of the river water.

It will be well to consider the following:

1. Remove cover from coagulation basin, placing house over same, and aerate the water.
2. Replace present timber flume with masonry construction.
3. Place recording meters on the discharge lines from the high duty pumps.
4. Select a location and determine the size of a new stand pipe for the storage of an additional amount of filtered water.
5. Move chief engineer's house across the street and construct a railroad siding and coal shed, so that it will be possible to deliver supplies direct from the cars.

The general condition of the entire works is very satisfactory.

Permit me to express my appreciation of the hearty co-operation of the members of the Board in all matters which have been brought to your attention and to also express my appreciation for the many courtesies extended by all of the employees.

Respectfully submitted,

James M. Caird.

## Location of Fire Hydrants and Nominal Pressure

(M Mathews, made by R. D. Wood & Co.)

(H Holly, made by Holly Mfg. Co.)

	Pressure in pounds	Make
Adams, corner York Street . . . . .	80	H
Allen Street, 600 ft. north of Hammond . . . . .	48	H
Allen and Fourteenth Streets . . . . .	50	M
Bangor State Hospital . . . . .	73	M
Bangor State Hospital . . . . .	73	M
Bangor State Hospital . . . . .	73	M
Bangor State Hospital . . . . .	73	M
Barker, corner First Street . . . . .	80	M
Bellevue Avenue and Garland Street . . . . .	75	M
Birch, corner State Street . . . . .	80	H
Birch, between State and Garland Street . . . . .	75	H
Birch, between Garland and Mount Hope Ave. . . . .	73	H
Birch and Hancock . . . . .	90	M
Birch, corner Mount Hope Avenue . . . . .	60	M
Blackstone, corner Fountain Street . . . . .	68	M
Blackstone, 200 feet west of Center Street . . . . .	65	M
Boutelle Road . . . . .	65	M
Boyd, corner York Street . . . . .	83	H
Broad and Union Street . . . . .	110	H
Broad and Circular Block . . . . .	112	H
Broadway, corner French Street . . . . .	55	M
Broadway, corner State Street . . . . .	80	H
Broadway, corner Penobscot Street . . . . .	78	H
Broadway, corner Cumberland Street . . . . .	68	H
Broadway, corner Garland Street . . . . .	70	H
Broadway, opposite Congress Street . . . . .	75	H
Broadway, near No. 370 Broadway . . . . .	60	H

	Pressure in pounds	Make
Broadway and Alden Street . . . . .	65	M
Broadway and Arctic Street . . . . .	68	M
Bryant Street: Hersey Avenue . . . . .	50	M
Buck and Main Street . . . . .	90	H
Buck, near M. C. R. R. tracks . . . . .	90	H
Carr and Hancock Street . . . . .	105	H
Catell and Hubbard Street . . . . .	88	M
Cedar and First Street . . . . .	88	H
Cedar and Third Street . . . . .	73	H
Cedar, corner Fourth Street . . . . .	65	H
Cedar, corner West Broadway . . . . .	40	H
Center, corner Somerset Street . . . . .	80	H
Center, corner Cumberland Street . . . . .	80	H
Center, corner Garland Street . . . . .	80	H
Center, between Garland and South Park . . . . .	78	M
Center, opposite Jefferson Street . . . . .	78	H
Center, opposite Madison Street . . . . .	70	H
Center, opposite Congress Street . . . . .	65	H
Center, opposite Montgomery Street . . . . .	55	H
Center, 600 feet north of Montgomery Street . . . . .	50	M
Center, corner Linden Street . . . . .	50	M
Center, corner Poplar Street . . . . .	50	M
Central Street, East side—West of bridge . . . . .	110	M
Central, west of bridge . . . . .	110	H
Central and Harlow Street . . . . .	108	M
City Stables and County Building . . . . .	105	H
City Farm, (Main Street in Yard) . . . . .	90	H
Columbia, opposite Cross Street . . . . .	100	H
Cottage, corner Union Street . . . . .	45	H
Cottage, between Union and Ohio Street . . . . .	38	M
Court, corner Hammond Street . . . . .	90	H
Court, near Clark Street . . . . .	88	H
Court, corner Boynton Street . . . . .	78	H
Court, near Dr. Coe's residence . . . . .	75	H
Curve, near Harlow Street . . . . .	100	M
Curve and Market Street . . . . .	85	M
Dean, corner Fourteenth Street . . . . .	43	M
Dillingham, 600 feet north of Main Street . . . . .	70	H
Dillingham, corner Main Street . . . . .	86	M
Dutton, opposite Noyes & Nutter's Foundry . . . . .	90	H
Dutton, near M. C. R. R. Tracks . . . . .	93	M
East Summer, corner Hancock Street . . . . .	93	H
East, corner Webster Avenue . . . . .	53	M

	Pressure in pounds	Make
Elm, north of Mt. Hope Avenue . . . . .	70	M
Elm, between Somerset and Garland Street . . . . .	65	M
Elm, corner Garland Street . . . . .	68	H
Elm, corner Stillwater Avenue . . . . .	70	M
Elm, 875 feet north of Garland Street . . . . .	68	H
Elm, corner Milford Street . . . . .	68	H
Eastern Maine General Hospital (in yard) . . . . .	95	M
Emerson, 475 feet from Main Street . . . . .	95	M
Essex, opposite Penobscot Street . . . . .	65	H
Essex, corner Somerset Street . . . . .	60	H
Essex, corner Cumberland Street . . . . .	63	H
Essex, corner Garland Street . . . . .	63	H
Essex, 400 feet north of Garland Street . . . . .	70	H
Essex, 800 feet north of Garland Street . . . . .	75	H
Essex, corner Stillwater Avenue . . . . .	75	H
Essex, opposite Milford Street . . . . .	68	H
Essex St. Extension, near Barnes Res. No. 524 . . . . .	63	M
Essex, corner York Street . . . . .	85	H
Everett, corner Bower Street . . . . .	70	H
Exchange, between Hancock and Washington Street . . . . .	115	H
Exchange, corner Washington Street . . . . .	112	M
Fern, between State and Garland Street . . . . .	75	H
Fern, corner Garland Street . . . . .	72	H
Fern, between Garland and Mt. Hope Avenue . . . . .	80	M
Fifth, corner Cedar Street . . . . .	55	M
Fifth, between Cedar and Warren Street . . . . .	60	H
Fifth, corner Warren Street . . . . .	70	H
Fifteenth, 500 feet west of Ohio Street . . . . .	58	H
First, corner Davis Street . . . . .	85	H
Forest Avenue, corner State Street . . . . .	70	H
Forest Avenue, corner Somerset Street . . . . .	65	H
Forest Avenue, corner Coombs Street . . . . .	63	H
Forest Avenue, north of Garland Street . . . . .	60	H
Forest Avenue, corner Mt. Hope Avenue . . . . .	63	H
Forest Avenue, corner Stillwater Avenue . . . . .	60	H
Fountain, corner Congress Street . . . . .	60	M
Fourteenth Street, corner Hammond . . . . .	43	M
Fourteenth Street, 550 feet east of Allen . . . . .	49	M
Fourteenth Street, near Hilton Residence . . . . .	49	M
Fourth, between Cedar and Warren Street . . . . .	70	H
Fourth, corner Parker Street . . . . .	83	H
Franklin, corner Hammond Street . . . . .	108	M
Franklin, east side . . . . .	110	H

	Pressure in pounds	Make
Fremont, near house No. 44, North side . . . . .	70	M
French and Congress Street . . . . .	65	M
French, 500 feet north of Congress Street . . . . .	60	M
French, corner West Park Street . . . . .	75	M
French, corner South Park Street . . . . .	80	M
French, corner State Street . . . . .	90	H
French, corner Penobscot Street . . . . .	73	H
French, corner Cumberland Street . . . . .	73	M
French, corner Garland Street . . . . .	70	H
French and Washington Street . . . . .	110	M
Front, opposite May Street . . . . .	110	H
Front, at Eastern Steamship Co. wharf . . . . .	110	M
Fruit, between State and Garland Street . . . . .	85	M
Fruit, 500 feet north of Garland Street . . . . .	75	H
Grant Street, East side . . . . .	50	M
Grant Street, opposite corner Montgomery Street . . . . .	50	M
Gridley, corner Church Lane . . . . .	80	H
Grove, corner Garland Street . . . . .	60	M
Grove, between State and Somerset Street . . . . .	55	H
Grove, between Somerset and Garland Street . . . . .	65	H
Grove, between Garland and Stillwater Avenue . . . . .	70	H
Grove, corner Stillwater Avenue . . . . .	73	M
Hammond, opposite Yates Shoe Store . . . . .	115	H
Hammond, opposite Fifth Street . . . . .	55	H
Hammond, opposite Cedar Street . . . . .	50	H
Hammond, opposite Seventh Street . . . . .	50	M
Hammond Street, opposite Webster Ave. . . . .	45	H
Hammond, opposite Thirteenth Street . . . . .	48	M
Hammond and West Street . . . . .	48	M
Hammond, near Norway Road . . . . .	40	M
Hancock, corner Newbury Street . . . . .	105	H
Hancock, corner Boyd Street . . . . .	110	H
Hancock, corner Essex Street . . . . .	100	H
Hancock, corner Oak Street . . . . .	98	H
Hancock, corner Exchange Street . . . . .	115	H
Harlow, corner Center Street . . . . .	108	H
Harlow and Cumberland Street . . . . .	105	H
Harlow, near Haynes Court . . . . .	100	M
Harlow, opposite Planing Mill . . . . .	105	M
Harlow, corner Kenduskeag Avenue . . . . .	105	H
Harvard and Bates Street . . . . .	64	M
Harvard and Colby Street . . . . .	66	M
Harvard and Mt. Hope Avenue . . . . .	65	M



	Pressure in pounds	Make
Haymarket Square and Independent Street . . . . .	105	M
Haynes Court. . . . .	110	H
Hellier, corner Parker Street. . . . .	95	H
High, near Burpee Residence. . . . .	78	H
Highland Avenue and Charles Street. . . . .	43	H
Highland Lane. . . . .	45	M
Highland Street, near Standpipe. . . . .	20	H
Highland Street and Highland Avenue. . . . .	23	M
Highland Avenue and Charles Street. . . . .	43	H
Hogan Road and Bangor State Hospital. . . . .	75	M
Hogan Road, 800 feet north from State Street. . . . .	85	M
Holland, 500 feet west of Valley Avenue. . . . .	75	H
Holland, corner of Valley Avenue. . . . .	100	H
Howard, corner Garland Street. . . . .	75	M
Howard, 700 feet north of Garland. . . . .	70	M
Howard, corner of State Street. . . . .	85	H
James, corner of Highland Avenue. . . . .	30	H
Jefferson, corner Norfolk Street. . . . .	73	H
Jordan Road, and Tyler Avenue. . . . .	74	M
Kenduskeag Avenue, opposite Division Street. . . . .	83	H
Kenduskeag Avenue, opposite Jefferson Street. . . . .	78	H
Kenduskeag Avenue, corner Madison Street. . . . .	74	H
Kenduskeag Avenue, corner Congress Street. . . . .	63	H
Kenduskeag Avenue, near John Scott's Residence. . . . .	50	M
Kossuth, near Jesse Street. . . . .	70	M
Lane, 500 feet east of Allen Street. . . . .	48	H
Larkin and Third Street. . . . .	70	M
Larkin, 590 feet north of Main Street. . . . .	75	H
Leighton, corner Montgomery Street. . . . .	45	H
Leighton, between Montgomery and Linden Street. . . . .	45	H
Leighton, corner Poplar Street. . . . .	48	M
Lincoln, 500 feet from Main Street. . . . .	78	H
Lincoln, corner Third Street. . . . .	73	H
Linden, corner Leighton Street. . . . .	45	M
Madison, corner Norfolk Street. . . . .	63	H
Main, near E. C. Nichols Co. Store. . . . .	110	H
Main, opposite Cross Street. . . . .	105	H
Main, corner Middle Street. . . . .	104	H
Main, corner Union Street. . . . .	97	H
Main, near Davenport Park. . . . .	100	H
Main, near Parkhurst Trunk Factory. . . . .	103	H
Main, near Railroad Street. . . . .	103	H
Main, near Gas House. . . . .	100	M

	Pressure in pounds	Make
Main, in Gas House Yard . . . . .	100	M
Main, corner Patten Street . . . . .	98	H
Main, corner Sidney Street . . . . .	94	H
Main, corner Lincoln Street . . . . .	93	H
Main, corner Dutton Street . . . . .	95	H
Main, at City Farm . . . . .	93	H
Main, B. R. & E. Car Barn . . . . .	95	M
Main, corner Thatcher Street . . . . .	90	M
Main, near Railroad Bridge . . . . .	90	M
Main, at Hampden Line . . . . .	100	M
Manners Avenue and Union Street . . . . .	53	M
Maple and Garland Street . . . . .	70	M
Maple, 500 feet north of Garland Street . . . . .	68	M
Maple, corner State Street . . . . .	80	H
Maple, between State and Garland Street . . . . .	75	H
Maple, corner Mt. Hope Avenue . . . . .	65	M
Maplewood Park, Dutton Street entrance . . . . .	75	M
March, corner Main Street . . . . .	90	M
Market, corner Cumberland Street . . . . .	85	H
Market, corner Division Street . . . . .	83	M
Market, 100 feet north of Willow Street . . . . .	85	H
May, opposite Pleasant Street . . . . .	103	M
Merrimac, 200 feet from Hancock Street . . . . .	95	H
Montgomery, opposite Fountain Street . . . . .	45	M
Montgomery, corner Kenduskeag Avenue . . . . .	55	H
Morse & Co. Planing Mill in Yard . . . . .	110	H
Mt. Hope Avenue, north of Fruit Street . . . . .	65	M
Nelson, corner Drummond Street . . . . .	80	M
Newbury, corner York Street . . . . .	73	H
Norfolk, corner Congress Street . . . . .	60	M
North, corner West Street . . . . .	45	M
Norway Road, and Fairmount Park, East . . . . .	40	M
Norway Road, and Fairmount Park, West . . . . .	45	M
Oak, near Washington Street . . . . .	105	H
Ohio, corner Hammond Street . . . . .	75	H
Ohio, between Hammond and Hudson Street . . . . .	68	H
Ohio, corner Hudson Street . . . . .	68	H
Ohio, opposite Everett Street . . . . .	58	H
Ohio, corner Bower Street . . . . .	63	H
Ohio, near Smith Street . . . . .	53	M
Ohio and Autumn Street . . . . .	45	M
Ohio, near Fremont Street . . . . .	48	H
Ohio, corner Holland Street . . . . .	50	H

	Pressure in pounds	Make
Ohio, opposite Fourteenth Street . . . . .	58	H
Ohio, opposite Sixteenth Street . . . . .	65	H
Olive Court and Olive Street . . . . .	85	M
Otis and Garland Street . . . . .	80	M
Otis, corner State Street . . . . .	105	H
Palm and State Street . . . . .	78	M
Palm and Garland Street . . . . .	68	M
Palm, 600 feet north of Garland Street . . . . .	62	M
Park, 150 feet from State Street . . . . .	105	M
Park, near Tarrantine Club Building . . . . .	95	H
Parker, opposite Second Street . . . . .	75	H
Parkview, 500 feet north of Garland Street . . . . .	68	H
Parkview, 600 feet south of Garland Street . . . . .	75	H
Parkview, corner of Mt. Hope Avenue . . . . .	68	M
Parkview, north of Mt. Hope Avenue . . . . .	60	M
Patten, near House No. 79 . . . . .	80	H
Pearl, 300 feet south of State Street . . . . .	85	H
Pearl, between State and Garland Street . . . . .	80	H
Pearl, 600 feet north of Garland Street . . . . .	75	H
Pearl, corner of Mt. Hope Avenue . . . . .	63	H
Perkins and Fourteenth Street . . . . .	50	M
Pearl, corner State Street . . . . .	80	H
Pickering Square and Water Street, West Side . . . . .	110	M
Pier, corner Seventh Street . . . . .	58	H
Pier and Sixth . . . . .	70	M
Pine, opposite South Park Street . . . . .	73	H
Pleasant View Street and Poplar . . . . .	50	M
Pond and Hayward Street . . . . .	48	H
Prospect, corner Center Street . . . . .	80	H
Pumping Station Filter Plant . . . . .	120	H
Pumping Station Yard . . . . .	120	H
Railroad, corner Front Street . . . . .	108	H
Railroad, corner Pleasant Street . . . . .	108	H
Railroad, corner Summer Street . . . . .	105	M
Royal Road and Graham Avenue . . . . .	43	M
Royal Road and Webster Avenue . . . . .	63	M
Salem Court . . . . .	80	M
Sanford, corner Cedar Street . . . . .	85	M
Sanford, between Cedar and Warren Street . . . . .	85	M
Sanford and Warren Street . . . . .	80	M
Second, corner Cedar Street . . . . .	78	H
Second, 300 feet from Union Street . . . . .	80	M
Second, 300 feet north of Warren . . . . .	95	H

	Pressure, in pounds	Make
Seventh and Lincoln Street. . . . .	65	M
Seventh, between Savage and Larkin Street. . . . .	60	M
Sidney, 130 feet south of Rio Street. . . . .	83	M
Sixteenth, corner Union Street. . . . .	55	H
Sixteenth, between Ohio and Union Street. . . . .	60	M
Sixth, between Hammond and Pier Street. . . . .	58	H
Somerset and Broadway. . . . .	70	H
Somerset, between Grove and Elm Street. . . . .	65	H
Somerset, corner French Street. . . . .	70	H
South, corner Pleasant Street. . . . .	95	H
Spring, between Harlow and Center. . . . .	95	H
State, at Dr. Peter's Residence. . . . .	110	M
State, at J. Frank Green's Ice House. . . . .	112	M
State, at Hogan Road. . . . .	112	M
State, at Eastern Maine General Hospital. . . . .	95	H
State, between Forest Avenue and Grove. . . . .	70	H
State, between Essex and Pine Street. . . . .	70	H
State, corner Park Street. . . . .	105	M
State, opposite Stickney & Babcock's Office. . . . .	110	M
Summit Avenue and Garland Street. . . . .	75	M
Summer, corner Cedar Street. . . . .	95	H
Summer, corner Union Street. . . . .	100	H
Summer, opposite South Street. . . . .	95	M
Thatcher, 175 feet west of Olive Street. . . . .	90	M
Thatcher, 923 feet from Main Street. . . . .	80	M
Third, corner Walter Street. . . . .	70	H
Thirteenth, near school house. . . . .	46	M
Union and Short Street. . . . .	100	M
Union and High Street. . . . .	78	H
Union, corner Clinton Street. . . . .	80	H
Union, corner Hammond Street. . . . .	70	H
Union, corner Hudson Street. . . . .	60	H
Union, corner George Street. . . . .	45	H
Union, corner Highland Street. . . . .	28	M
Union and Fourteenth Street. . . . .	55	M
Union and Fifteenth Street. . . . .	55	M
Union, 210 feet north of Seventeenth Street. . . . .	53	M
Union, near C. H. Phillips residence. . . . .	45	M
Valley Avenue, Morse & Co., hardware store. . . . .	110	M
Valley Avenue, at Morse & Co.'s Mills. . . . .	118	H
Valley Avenue, at S. A. Maxfield plant. . . . .	105	M
Vine Street, 400 feet west of Third Street. . . . .	65	M
Walter, 500 feet from Main Street. . . . .	90	H

	Pressure in Pounds	Make
Walter, north side . . . . .	95	M
Warren, corner Third Street . . . . .	73	H
Washington, east of Pine Street . . . . .	110	H
Washington, at Railroad bridge . . . . .	105	H
Walter, corner Pickering Square . . . . .	108	M
Webster Avenue, opposite Lincoln . . . . .	50	H
Webster Avenue, North, 554 feet from Hammond Street . . . . .	45	M
West Broadway, Savage . . . . .	50	M
West Broadway, corner Union Street . . . . .	30	M
West Broadway, corner Bowdoin Street . . . . .	50	H
West Broadway, corner Lincoln Street . . . . .	50	M
West Market Square, at Mercantile Block . . . . .	112	H
Wiley, between Union and Ohio Street . . . . .	45	M
Wing, corner Seventh Street . . . . .	60	H
Wing, corner Vernon Street . . . . .	50	M
Woodbury and Hersey Ave. . . . .	50	M
York, corner Broadway . . . . .	90	H
York, corner French Street . . . . .	110	H
York, corner Exchange Street . . . . .	100	H

Total number 346.

In the previous list, 10 Hydrants are Private, as follows:

Bangor State Hospital . . . . .	4
B. R. & E. Co., Main Street Car Barn . . . . .	1
E. M. G. Hospital, State Street, in yard . . . . .	1
E. M. Fair Asso., Dutton Street entrance . . . . .	1
S. A. Maxfield Plant, Valley Ave. . . . .	1
Morse & Co., in yard at Planing Mill. . . . .	1
Wood & Bishop Co., passageway to Gas Works . . . . .	1
Total . . . . .	10

## Report of the City Engineer

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Bangor, Maine, January, 1922.

*To His Honor, the Mayor and City Council:—*

The City Engineer herewith submits his annual report for the period from March 1 to December 31, 1921. In this department the following work has been executed.

### STREET LINES

Street lines and grades have been surveyed and determined during the year at the request of the Street Department, Water Department and when needed by property owners, for use in highway construction, improvement and repairs, building and fence lines, as follows:

Broadway	Carr	Cedar
Central	Center	Chatham
Division	East	East Broadway
Elizabeth Ave.	Elm	Everett
Essex	French	Fourth
Forest Ave.	First	Garland
George	Hammond	Highland Ave.
Harthorn Ave.	Hancock	Harlow
Main	Mt. Hope Ave.	Market
Nowell Road	New	Otis
Ohio	Pleasant	Palm
Parker	Pearl	Poplar
Ricker Lane	Second	Savage
State	Salem Court	Summer
South	Thirteenth	Third
Union	Vernon	Warren
West Broadway	Webster Ave., North	Webster Ave.
York		

## STREET GRADES

Broad	Central	Franklin
Forest Ave.	Harlow	Hammond
Haymarket Sq.	Main	State
Thirteenth	Union	Webster Ave., North

## SEWER SURVEYS

Surveys, plans and profiles were made and reports submitted for the following sewers during the past season:

Nowell Road, from Poplar Street, northerly.  
 Fourth Street, between Cedar and Warren Sts.  
 Mt. Hope Ave., easterly of Fruit Street.  
 Parkview Ave., northerly of Mt. Hope Ave.  
 Nelson, Drummond and Everett Sts.  
 Rutland Street.  
 Hammond St., Auxiliary Sewer via South and East Sts. and Webster Ave.  
 Essex St., northerly of Milford Street.  
 Plaisted Street.  
 Katahdin, Kineo and Stone Sts.  
 State St., at Fire Station 5.  
 Brewer Approach to Bangor-Brewer Bridge.

## LAYING OUT OF STREETS AND GRADES

Proceedings were held on the laying out and grade of the following streets:

Ricker Lane.  
 Plaisted Street.  
 Katahdin Street.  
 Kineo Street.  
 Stone Street.

## STREET NUMBERING

The total of buildings numbered during the period has been 72 and the total of numbers issued has been 82. New house number plans were made for the following streets:

Plaisted Street.  
 Pleasant View Street.  
 Broadway Road.  
 Forest Avenue Extension.



## STREET OPENINGS

64 permits have been issued for street openings from March 1, 1921 to December 31, 1921, and the amount \$157.75 has been paid to the City Treasurer for the same.

## TAR CONCRETE WALKS

Measurements have been made, certificates issued for payment and reports submitted on Tar Concrete Walks during the season as follows:

## NEW SIDEWALKS

	Sq. Yds.	Price	Cost
Cedar St., S. W. Side, between Third and Fourth Sts.....	184.78	1.45	267.93
Charles and Ohio Sts.....	212.48	1.45	308.10
Otis St., northerly of Garland St.....	345.95	1.45	501.63
Webster Ave., North, S. E. Side.....	302.15	1.45	438.12
State St., S. Side, between Merrimac and Birch Sts.....	104.61	1.45	151.68
Central St. Bridge.....	239.18	1.60	382.68
	<hr/>		<hr/>
	1389.15		\$2050.14

## RECONSTRUCTION SIDEWALKS

	Sq. Yds.	Price	Amount
Adams St., Ely. Side.....	84.61	1.20	\$101.53
Center St., Ely. Side, between Cumberland and Congress Sts.....	617.16	1.20	740.59
Center St., Ely. Side, between Cumberland and Congress Sts.....	664.56	1.45	963.60
Central and Harlow Sts.....	74.76	1.20	89.71
Center St., W. Side, between Harlow and Pros- pect Sts.....	158.80	1.20	190.56
Cedar St., S. W. Side, between Third and Fourth Sts.....	13.33	1.20	15.99
Court St., between Ohio and Everett Sts.....	157.95	1.20	189.54
Essex St., E. Side, Sly. of Garland.....	139.18	1.20	167.01
Essex St., W. Side, Sly. of Garland.....	66.49	1.20	79.79
French St., E. Side, between Cumberland and Garland Sts.....	133.53	1.20	160.23



	Sq. Yds.	Price	Amount
French St., E. Side, between Somerset and Cumberland Sts. . . . .	66.31	1.20	79.57
French St., W. Side, south of Somerset . . . . .	93.33	1.20	111.99
French St., W. Side, between Somerset and Garland Sts. . . . .	301.81	1.20	362.16
French St., W. Side, between Garland and S. Park Sts. . . . .	54.50	1.20	65.40
French St., W. Side, N. of W. Park St. . . . .	49.11	1.20	58.93
Fourth St., at No. 39 . . . . .	4.76	1.20	5.71
Garland St., N. Side, between French and Essex Sts. . . . .	58.90	1.20	70.67
Hammond and Clark Sts. . . . .	19.87	1.20	23.84
Leighton St., W. Side, N. of Montgomery . . . .	9.17	1.20	11.00
Madison St., between Center and Norfolk . . . .	326.48	1.20	391.77
Madison St., between Center and Norfolk . . . .	39.99	1.45	57.98
Madison St., between Norfolk and Leighton Sts. .	131.44	1.45	190.58
Main St., S. E. Side at No. 240 . . . . .	55.96	2.45	81.14
State St., at Fire Station 5 . . . . .	349.91	1.45	507.36
State St., S. Side, Wly. of Adams St. . . . .	106.69	1.45	154.70
	<u>3778.60</u>		<u>\$4871.35</u>

### RECONSTRUCTION CROSS WALKS

Location	Sq. Yds.	Price	Cost
Center St. Ave., at French . . . . .	21.44	1.45	31.08
Madison St., at Norfolk . . . . .	62.59	1.45	90.75
Center St., at W. Park . . . . .	34.83	1.45	50.50
Center St., at S. Park . . . . .	31.60	1.45	45.82
Center St., at Garland . . . . .	40.00	1.45	58.00
Garland St., at Wly. Side Essex . . . . .	45.92	1.45	66.58
Essex St., at Nly. Side Garland . . . . .	59.81	1.45	86.72
Parkview Ave., at State . . . . .	39.45	1.45	57.20
	<u>335.64</u>		<u>\$486.65</u>

### RECOATING SIDEWALKS

	Sq. Yds.	Price	Cost
French St., W. Side at No. 218 . . . . .	11.37	.95	10.80
Congress . . . . .	70.42	.95	66.89
State St., N. Side, between Park and French Sts. .	286.98	.95	272.63
	<u>368.77</u>		<u>\$350.32</u>

## GRANOLITHIC SIDEWALKS AND CURBING

Harlow St. at High School and Library.

581.37 sq. yds. sidewalk, 475 linear ft. curbing, cost. . . . \$3,187.02

Central and Hammond Sts., at New Stetson Building.

243.72 sq. yds. sidewalk, 204 linear ft. curbing, cost. . . . \$1,098.81

## CATCHBASIN AND MANHOLE LOCATION

Plans and tracings showing the location of manholes and catchbasins in the city were completed for the Sewer Department and blueprint copies of the originals placed in loose leaf binders properly indexed under streets.

## STREET SPRINKLING

Street sprinkling was done by the City Highway Department.

Total cost of sprinkling (water, oil, calcium chloride) . . . .	\$17,482.62
Assessments levied against property benefitted. . . . .	11,379.14
Number of streets sprinkled. . . . .	114
Total number of miles sprinkled. . . . .	33.48
Total number of square yards sprinkled. . . . .	609,358.00
Average cost per mile. . . . .	\$344.84
Average cost per linear foot. . . . .	.0653
Average cost per square yard. . . . .	.01895

## CALCIUM CHLORIDE SPRINKLING

During the season of 1921, the Highway Department purchased 15 ton of calcium chloride to be used for street sprinkling and applied the same to the following streets:

West Broadway from Hammond St. to Lincoln St. . . . .	8088.89 sq. yds.
Pier St., from Hammond St. to Seventh St. . . . .	1706.67 sq. yds.
Cedar St., from Main St. to Second St. . . . .	2311.11 sq. yds.
Main St., from car barn to Town Line. . . . .	7111.11 sq. yds.

Total. . . . . 19217.78 sq. yds.

19217.78 sq. yds. at \$.03450295 per sq. yd. . . . . \$663.07

Cost of 15 ton \$663.07 applied.

Cost per ton \$44.2047 applied.

## ROAD RESURFACING

Main street from Davis street to Emerson street, northwest side, and from Davis street to Lincoln street, southeast side, was resurfaced with about 3,000 gallons of Binder A.

8,000 sq. yds. treated at \$.11016875 per sq. yd. Cost \$891.35

Hammond street from West Broadway westerly to Norway Road was resurfaced with about 1,323 gallons of Binder A.

8,400 sq. yds. treated at about \$.0489 per sq. yd. Cost \$410.82.

## ROAD OILING AND RESURFACING

The past season the Highway Department purchased 26,080 gallons of Road Oil No. 6 and 4,323 gallons of Binder A of the Standard Oil Co. and the material was applied to the following streets:

## WEST SIDE

	Sq. Yds.
Hammond St., from Columbia St. to Fifth St.....	7,785.55
Hammond St., from Norway Road, 700 ft. westerly.....	1,400.00
Cedar St., from Third St., to West Broadway.....	6,000.00
West Broadway, from Hammond St. to Union St.....	7,738.88
Seventh St., from Hammond St. to Pier St.....	1,737.77
Boutelle Road, from Hammond St. to Webster Ave.....	2,346.67
Graham Ave., from Boutelle Road to Royal Road.....	1,111.11
Royal Road, from Hammond St. to Webster Ave.....	2,951.11
Norway Road, from Hammond St. to Fairmount Park, E.....	1,042.22
Webster Ave., from Hammond St. to above Norway Road.....	4,440.00
Union St., from West Broadway to Jackson St.....	2,866.67
Total.....	39,419.98
39419.98 sq. yds., at \$.0545823 per sq. yd.....	\$2,152.63

## EAST SIDE

Essex St., from State St. to Stillwater Ave.....	12911.11
State St., from Otis St. to Hichborn Hill.....	7,111.11
State St., from Exchange St. to Pine St.....	3,791.11
Broadway, from State St. to South Park St.....	9,902.22
French St., from State St. to Garland St.....	6,310.00

Somerset St., from Center St. to Essex St.....	4,333.33
Center St., from Harlow St. to Montgomery St.....	8,003.33
Park St., from State St. to Somerset St.....	2,850.00
Penobscot St., from Park St. to Broadway.....	1,558.33
Spring St., from Center St. to New St.....	440.00
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Total.....	57,210.54
57,210.54 sq. yds., at \$.0545823 per sq. yd.....	\$3,122.68
Total number of sq. yds.....	96,630.41
Total cost.....	\$5,274.31

Note: See Road Resurfacing for Binder A application.

### STATE STREET STATE AID ROAD

State street from Parkview Avenue to Spruce street was paved with cement concrete during the summer season. This work was done under the direction of the State Highway Commission and this department, John P. Webster being in charge for the State Highway Commission. The materials, labor, teams, etc., were furnished by the City Highway Department.

The pavement consists of reinforced concrete slabs seven inches in thickness laid on a gravel foundation. Tile and gravel drains were placed in the gutters practically the entire length of the road. A schedule of the amount of pavement laid and the cost of the same is as follows:

Length.....	1502 feet
Width, including B. R. & E. tracks.....	41 feet
Total area.....	6827 sq. yds.
Area B. R. & E. Co. Right of Way.....	3004 sq. yds.
Total cost of road to City and State.....	\$15,781.71

### STATE AID FINANCIAL STATEMENT

	City	State
Balance from 1920.....		\$2,495.56
1921 appropriation.....	\$7,416.15	5,870.00
	<hr/>	<hr/>
	\$7,416.15	\$8,365.56
Total State and City.....		\$15,781.71
Disbursements.....		\$15,781.71

### UNION STREET THIRD CLASS STATE AID ROAD

The State of Maine appropriated the sum of \$1,257.27 to be used in the construction of a third class highway in the City of Bangor. Union Street between Fifteenth and Sixteenth Streets was designated as a third class highway and approved by the State Highway Commission. The road was constructed with an eight inch gravel wearing surface on an eight inch stone base. Side drains were constructed to drain the water from the sub-base of the road. The labor, teams, and materials were furnished by the City of Bangor Highway Department.

Upon completion, the road was accepted by the State Highway Commission, the State paying their allotted sum towards the cost thereof.

Length of road improved . . . . .	600 feet
Width . . . . .	21 feet
State appropriation (Ch. 263 P. L. 1919) . . . . .	\$1,257.27
City appropriation . . . . .	425.73
	<hr/>
Total cost of road . . . . .	\$1,683.00

### CENTRAL STREET PAVEMENT

The easterly side of Central street from Hammond street northerly in front of the new Stetson Building was paved with granite blocks laid on a cement concrete base six inches in thickness. The joints were filled with cement grout. Old granite blocks which had been re-cut were utilized. The amount of pavement laid:

267.92 sq. yds. at \$4.11 per sq. yd. Cost, \$1,101.45.

There was also laid in the Bangor Railway & Electric Co.'s tracks 173.46 sq. yds. same kind of pavement, making a total of 441.38 sq. yds. of new pavement laid in Central street during the past season.

### WEST MARKET SQUARE PAVEMENT

That portion of West Market Square at the Miller and Webster corner was re-paved with granite blocks to make the im-

proved pavement continuous from Kenduskeag Bridge to Main street. The amount of pavement laid:

	Cost
For the City.....89.19 sq. yds., at \$6.394 per sq. yd.....	\$570.29
For B. R. & E. Co., 115.08 sq. yds.	
Total.....	204.27 sq. yds.

### MAIN STREET PAVING

Main street from Sweet's corner to Cross street was reconstructed. The old granite blocks were taken up and re-cut to make a new wearing surface and then re-laid on a base of cement concrete six inches in thickness. The joints were filled with cement grout. The amount of pavement laid was 1,345.98 sq. yds.

1345.98 sq. yds., at \$3.356 per sq. yd. Cost, \$4,516.78.

Total of improved granite pavement laid during the season:

Main Street.....	2,045.98 sq. yds.
W. Market Square.....	204.27 sq. yds.
Central Street.....	441.38 sq. yds.
	2,691.63 sq. yds.

### STREET AND TRAFFIC SIGNS

During the season street signs were placed where needed. Silent policemen were repaired and 36 new panels purchased for the same. Twelve sidewalk bases with  $\frac{3}{4}$  inch pipe posts and 18 signs were also purchased to be used in regard to traffic regulations.

### MISCELLANEOUS

Copying city deeds in book.

Waterworks levels and measurements.

Measurements and sketch of Pickering Square.

Staking baseball diamonds at Bass Park and Abbott Square for High School.

Baseball diamond at Broadway Park.



Exchange Street, survey for Electric Department.  
Levels for setting manhole tops at waterworks.  
Football field at Bass Park.  
Maple Grove cemetery plan.  
Mt. Hope Cemetery plan and staking lots public division.  
Survey of Bass lot, Main Street, for proposed athletic field.  
Title plan of Westland Park for assessors.  
Church Road, cemetery plan.

The large wall maps of the water department have been brought up to date, all new construction being added.

Levels, etc., for grading Thirteenth Street and schoolhouse lot.

## BRIDGES

The expenditures for this department have been for necessary repairs and maintenance of the bridges crossing Penobscot River and Kenduskeag Stream and several small bridges crossing small streams. There are 21 bridges under the direct charge of this department.

### BANGOR AND BREWER BRIDGE

During the past season the steel of this bridge was thoroughly cleaned and painted throughout its entire length. The expenditures also include the pay of the patrolman. This coming season it will be necessary to make repairs to the footwalk and also repairs to the piers.

### MAINE CENTRAL R. R. BRIDGE FOOTWALK

During the summer the footwalk of the Maine Central Railroad Bridge was re-built, hard pine lumber being used. The lumber was treated with creosote oil. The hand rail was repaired and painted. A cement concrete walk was constructed on the approach to the bridge at the Exchange Street end.

### KENDUSKEAG BRIDGE

The expenditures on this bridge were for minor repairs. The joints in the abutments and pier were re-pointed and the hand rails were thoroughly cleaned and painted.

### CENTRAL STREET BRIDGE

The work of building the Central Street Bridge, especially that portion north of the car tracks, was completed early in the summer. The walks were surfaced with tar concrete and an iron hand rail was placed the entire length of the bridge. Two catchbasins were also placed between the rails of the B. R. & E. Co.'s tracks, the expense being born by the railway company. Practically all of the water that follows the railway tracks from Harlow Street to the bridge is now drained into Kenduskeag Stream by the catchbasins. The joints in the abutments of this bridge were re-pointed.

### FRANKLIN STREET BRIDGE

The abutments and pier of the Franklin Street Bridge were re-pointed and the hand rail thoroughly cleaned and painted.

### MORSE'S AND SALT MILLS BRIDGES

These two bridges received minor repairs during the season. The wearing surface of the floor system of these bridges was renewed. Repairs were made to the southerly abutment of Salt Mills Bridge. Where the abutment rested on the ledge, it was necessary to place a foundation of cement concrete as the bottom stones of the abutment had become loosened.

### MERRILL'S MILLS BRIDGE

The Merrill's Mills Bridge (commonly called Bullseye Bridge) is in about the same condition as reported last year. During the summer the bents were inspected and where found necessary the same were blocked up on the bottom of the river and where



the blocking on top of the bents comes in contact with the bridge, wedges were provided where found necessary.

If this bridge is used during the coming season, it will be necessary to provide a new wearing surface for the floor system.

### PUSHAW ROAD BRIDGE

It was necessary to re-build a portion of the northerly pier of this bridge, the old timber in the pier having completely decayed and the superstructure had settled down about eight inches on the southerly side. It will probably be necessary to make repairs to the southerly river pier and repairs to the abutments this coming year.

### HOGAN ROAD BRIDGE

The Hogan Road Bridge has been held in place temporarily for the past two years. A new bridge has been constructed. The walls are of cement concrete. The structure consists of steel floor beams and the floor system consists of timber. The side rails are of iron. This bridge was designed to carry a reinforced concrete top when it is convenient to place the same.

### UNION STREET BRIDGE

The bridge which crosses the brook on Union Street near the Griffin Road and which is a cement concrete structure was found to be in very bad condition early in the spring and to save the structure, it was necessary to extend the footings of the abutment walls several feet below the bed of the brook.

When this bridge was built in 1915, the foundations were not carried deep enough, in fact, placed practically on the bed of the brook and the consequences show that during the winters of 1920-21 the frost did considerable damage. It may be necessary this coming season to repair the wing walls on the northerly side of the bridge. These walls now consist of field rock laid up loose with the outside faces covered over with cement mortar.

The remaining bridges under the charge of this department are in fairly good shape, but of course, this coming spring will

need inspection and probably minor repairs. I think it will be necessary to construct guard rails on many of our small bridges this coming season.

## FINANCIAL STATEMENT

### BRIDGES

Appropriation .....	\$15,720.00
Additional appropriation, transferred from Engineering Salaries to Bridges .....	250.00
	\$15,970.00

### EXPENDITURES

General .....	\$685.98
Bangor and Brewer Bridge .....	4,825.10
Central Street Bridge .....	2,854.55
Merrill's Mills Bridge .....	215.96
Salt Mills Bridge .....	600.07
Morse's Mills Bridge .....	672.46
M. C. R. R. Walk .....	1,839.80
Mt. Hope Ave. Bridge .....	1.87
Red Bridge, State Street .....	.75
Hogan Road Bridge .....	1,945.89
Franklin Street Bridge .....	171.98
Union Street Bridge .....	1,117.75
Finson Road Bridge .....	2.25
Pushaw Road Bridge .....	769.49
Kenduskeag Bridge .....	348.99
Essex Street Bridge .....	25.00
	\$16,077.89
Revenue earned, Bangor & Brewer Bridge .....	965.02
	\$15,112.87

### ENGINEERING

Appropriation: Engineering salary .....	\$4,750.00
Appropriation: Engineering expense .....	1,000.00
	\$5,750.00
Transferred from Engineering Salaries to Bridges .....	250.00
	\$5,500.00

## EXPENDITURES

Engineering salary.....	\$3,930.28	
Engineering expense, general account.....	501.76	
Engineering expense, street signs.....	26.71	
Engineering expense, traffic regulations.....	167.11	
	<hr/>	\$4,625.86

For a schedule of property belonging to the City Engineer's office and the Bridge Department, see report on file in City Engineer's office.

Respectfully submitted,

DAVID J. NASON,

City Engineer.

## Report of the Street Commissioner

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*To the Honorable Mayor and the Members of the City Government:*

I hereby submit for your approval, my annual report of the work performed by the Highway Department.

The season of 1921 has demonstrated in a greater degree than usual, the need of more and up to date machinery for the proper care and up keep of our city streets.

As new and permanent streets are added we find that the machines used for street cleaning are inadequate to give the best results. State Street for its greater part has now to be swept, Main Street, from Railroad to Buck, Harlow Street, Exchange Street, the new paving from Exchange Street to Cross Street, Central Street, Wood Block and Hammond Street, from 5th Street to end of car line, demanded our attention, and we found it a hard job, but did the best we could, with the material we had to work with.

The usual amount of repair work has been done on the several streets as soon as their needs came to our notice.

Our teams and trucks have been kept busy hauling gravel from the City bank and other banks. There has been hauled and distributed on the several streets and sidewalks, 8,177 cu. yds. cr. rock and gravel from the City bank, 558 cu. yds. from other banks.

Among the several streets receiving a liberal amount of gravel may be mentioned the following: Broadway, Buck, Blackstone, Cedar, Center, Carr, Congress, Fountain, Fourth, Franklin, Garland, Hammond, Highland Ave., Howard, Kenduskeag Ave., Leighton, Linden, Madison, Main, Norfolk, Ohio, Pleasant View, Somerset, Third, Thirteenth, Seventeenth, Fourteenth, Union and Warren.

In addition to the above 1132 loads of good gravel was hauled from the excavation for the State Street Cement road and distributed on the adjacent streets.

In addition to the gravel hauled there has been hauled by our Department and spread upon the streets 881 loads of Cinders.

Streets receiving five or more loads are as follows:

Broad, Blackstone, Cumberland, Center, Central, Dexter, Essex, Fourteenth, French, Forest Ave., Fourth, Grove, Garland, Hogan Road, Hillside Ave., Hammond St., Kenduskeag Ave., Lane, Mt. Hope Ave., North Park, Palm, Pearl, Parkview Ave., Pine, Summer, Second, Smith, Salem Court, Warren.

Sidewalks receiving Cinders were as follows:

Birch, Carr, Grove, Howard Lane, Market, Manners Ave., Ohio, Perkins, Pearl, State, Sixth, Summit Ave., Spring St., Union and Willow St. There were 44 loads used on the sidewalks.

Main Street Macadam, from Davis Street to Emerson St., Northwest side was reinforced with Binder A and Pea Stone, about 6,000 sq. yards of Binder A being used at a cost of \$891.35.

Hammond Street, from West Broadway, westerly to Norway Road was also resurfaced with Binder A and Pea Stone, about 8,400 sq. yards of Binder A being used at a cost of \$410.82.

### PERMANENT ROAD WORK

During the summer of 1921, a paving of cement was laid on State Street, from Parkview Ave. to Spruce St., this paving consists of reinforced concrete slabs, 7 inches in thickness laid on a gravel base. Tile and gravel drains were laid in the gutters nearly the entire length, and since most of the gutters have been paved.

Length of road . . . . .	1502 feet
Width including tracks . . . . .	41 feet
Total area . . . . .	6827 Sq. yds.
Area B. R. & E. Co. Right of Way . . . . .	3004 Sq. yds.
Total cost to City and State . . . . .	\$15,781.71

## UNION STREET STATE AID ROAD

The State appropriated in 1921 the sum of \$1,257.27 to be used to build a third class highway in the City of Bangor.

Union Street between fifteenth and sixteenth streets was selected as a third class highway and approved by the State Highway Commission. The labor was furnished, as also were the teams and material by the Highway Dept. The road was constructed with an eight inch wearing surface, on an eight inch stone base, with side drains to take care of the water from the sub-base.

The road was inspected and accepted by the State Highway Commission, the State paying their share.

Length of road improved.....	600 feet
Width.....	21 feet
Total cost of road.....	\$1683.00
State's share.....	1257.27
	<hr/>
Total cost to the City.....	\$425.73

SIDEWALK CONSTRUCTION FOR THE SEASON  
OF 1921

## TAR CONCRETE

## NEW WORK

	Sq. Yds.	Cost
Cedar St., S. W. side, between Third and Fourth Sts.....	184.78	\$267.93
Charles and Ohio Sts.....	212.48	308.10
Otis St., northerly of Garland St.....	345.95	501.63
Webster Ave. N., S. E. side .....	302.15	438.12
State St., S. Side, between Merrimac and Birch St. . .	104.61	151.68
Central St. Bridge.....	239.18	382.68

## RECONSTRUCTION

Adams St., Ely, side.....	84.61	\$101.53
Center St., Ely, side between Cumberland and Con- gress Sts.....	617.16	740.59

	Sq. Yds.	Cost
Center St., Ely, side between Cumberland and Congress Sts. ....	664.56	\$963.60
Central and Harlow Sts. ....	74.76	89.71
Center St., W. side, between Harlow and Prospect St. ....	158.80	190.56
Cedar St., S. W. Side, between Third and Fourth Sts. ....	13.33	15.99
Court St., between Ohio and Everett St. ....	157.95	189.54
Essex St., E. Side Ely, of Garland. ....	139.18	167.01
Essex St., W. Side Ely, of Garland. ....	66.49	79.79
French St., East side, between Cumberland and Garland Sts. ....	133.53	160.23
French St., East Side, between Somerset and Cumberland. ....	66.31	79.57
French St., West Side, South of Somerset. ....	93.33	111.99
French St., W. Side, between Somerset and Garland Sts. ....	301.81	362.16
French St., W. Side, between Garland, and S. Park Sts. ....	54.50	65.40
French St., W. Side, N. of W. Park St. ....	49.11	58.93
Fourth St., at No. 39. ....	4.76	5.71
Garland St., N. Side, between French and Essex Sts. ....	58.90	70.67
Hammond and Clark Sts. ....	19.87	23.84
Leighton St., W. Side, N. of Montgomery. ....	9.17	11.00
Madison St., between Center and Norfolk Sts. ....	326.48	391.77
Madison St., between Center and Norfolk Sts. ....	39.99	57.98
Madison St., between Norfolk and Leighton Sts. ....	131.44	190.58
Main St., S. E. Side at No. 240. ....	55.96	81.14
State St., at Fire Station No. 5. ....	349.91	507.36
State St., S. Side Wly. of Adams St. ....	106.69	154.70

### RECOATING SIDEWALKS

French St., W. Side, at No. 218. ....	11.37	\$10.80
Congress St. ....	70.42	66.89
State St., N. side, between Park and French St. ....	286.98	272.63

### RECONSTRUCTION OF CROSS WALKS

Center St. Ave., at French. ....	21.44	\$31.00
Madison St., at Norfolk. ....	62.59	90.75
Center St., at W. Park. ....	34.83	50.50



	Sq. Yds.	Cost
Center St., at Garland . . . . .	40.00	\$58.00
Center St., at S. Park. . . . .	31.60	45.82
Garland St., at Wly. Side Essex. . . . .	45.92	66.58
Essex St., at Nly. Side Garland . . . . .	59.81	86.72
Parkview Ave. at State. . . . .	39.45	57.20

### GRANOLITHIC SIDEWALKS AND CURBING

Harlow St., at High School and Library.

581.37 sq. yds. Sidewalk, 475 linear ft. Curbing. Cost, \$3,187.02

Central and Hammond Sts., at New Stetson Building.

243.72 sq. yds. Sidewalk, 204 linear ft. Curbing. Cost, \$1,098.81

### PAVING

Owing to the building of the New Stetson Building and the consequent widening of Central Street, it became necessary to reconstruct a part of said street, and the Easterly side of Central Street, from Hammond Street, Northerly in front of the Stetson Building was repaved with Granite Blocks, laid on a cement base six inches thick, the joints were filled with cement grout. Old granite blocks which had been recut were used.

The cost is as follows:

267.92 sq. yds. Total cost \$1,101.15

At the same time there were laid in the Bangor Railway Electrical Company's tracks 176.46 sq. yards of the same pavement giving us a total of 443.46 sq. yards of new granite pavement in Central Street.

This work was done by the Highway Department, under the supervision of City Engineer Nason and Street Commissioner Campbell.

### MAIN STREET PAVING

Main Street, from Sweet's Corner to Cross Street, has been reconstructed. The old granite blocks were taken up, recut, and relaid on a cement concrete base six inches in thickness, the joints were filled with cement grout.

The amount of paving laid was. . . . . 1345.98 sq. yds.  
The cost of said reconstruction was. . . . . \$4,516.78



There was also laid for the Bangor Railway and Electric Co. 700 square yards in their tracks making a total of 2045.98 square yards of reconstructed paving in Main Street.

That portion of West Market Square, at the Miller and Webster corner was repaired with granite blocks laid on a cement concrete base, making the improved paving continuous from Kenduskeag Bridge to Main and Cross Streets.

For the City 89.19 Sq. yds. Cost \$570.29

For the B. R. and E. Co., 115.08 sq. yds. making a total of 204.27 sq. yds.

Total of improved paving laid in the season of 1921:

Main St. ....	2045.98 sq. yds.
W. Market Sq. ....	204.27 sq. yds.
Central St. ....	441.38 sq. yds.
	<hr/>
Total yardage .....	2,691.63 sq. yds.

This work was all done by the Highway Department under the supervision of City Engineer Nason, and Street Commissioner Campbell.

### STREET SPRINKLING

During the season of 1921 the sprinkling was done by the Highway Department. Owing to the hot and dry season it was at times impossible to give satisfaction, but no more than the usual complaints were received.

Number of Streets Sprinkled .....	114
Number of miles sprinkled. ....	33.48
Average cost per mile. ....	\$344.84

1921 witnessed a new departure in dust laying. The Highway Department purchased 15 tons of Calcium Chloride to be used for street sprinkling, and was applied to the following streets.

West Broadway from Hammond St. to Lincoln St. ....	8088.89 sq. yds.
Pier St., from Hammond St., to Seventh St. ....	1706.67 sq. yds.
Cedar St., from Main to Second St. ....	2311.11 sq. yds.

Main St., from Car Barn to Town Line.....	7111.11 sq. yds.
Total yards.....	19,217.78
Total cost.....	\$663.07

This experiment seemed to give satisfaction and as a dust layer was a success, and we think two applications a year would do away with the dust nuisance.

### STREET OILING

This was done by the Highway Department, and there was purchased by the Department 25,000 gallons of road oil No. 6 and 4,323 gallons Binder A of the Standard Oil Co. who spread the same on the following streets.

#### WEST SIDE

Hammond St., from Columbia to Fifth Sts. ....	7785.55 sq. yds.
Hammond St., from Norway Road, 700 feet westerly ...	1400.00 sq. yds.
Cedar St., from Third St. to West Broadway .....	6000.00 sq. yds.
West Broadway, from Hammond to Union St. ....	7738.88 sq. yds.
Seventh St., from Hammond to Pier St.....	1737.77 sq. yds.
Boutelle Road, from Hammond to Webster Ave.....	2346.67 sq. yds.
Graham Ave., from Boutelle Road to Royal Road .....	1111.11 sq. yds.
Royal Road, from Hammond to Webster Ave .....	2951.11 sq. yds.
Norway Road, from Hammond to Fairmount Park, E. ...	1042.22 sq. yds.
Webster Ave., from Hammond St. to above Norway ...	4440.00 sq. yds.
Union St., from West Broadway to Jackson St .....	2866.67 sq. yds.

#### EAST SIDE

Essex St., from State to Stillwater Ave.....	12911.11 sq. yds.
State St., from Otis to Hichborn Hill.....	7111.11 sq. yds.
State St., from Exchange to Pine St.....	3791.11 sq. yds.
Broadway, from State to So. Park St.....	9902.22 sq. yds.
French St., from State to Garland.....	6310.00 sq. yds.
Somerset, from Center to Essex.....	4333.33 sq. yds.
Center from Harlow to Montgomery.....	8003.33 sq. yds.
Park from State to Somerset.....	2850.00 sq. yds.
Penobscot from Park to Broadway.....	1558.33 sq. yds.

Spring St., from Center to New St. . . . .	440.00 sq. yds.
	<hr/>
Total number square yards sprinkled . . . . .	96630.41
Total cost of sprinkling . . . . .	\$5,274.31

Seven hundred cu. yds. of sand was hauled from City bank to cover the oil.

### SNOW AND ICE REMOVAL

The spring of 1921 was very mild, the snow plows not being out after March 1. Considerable sand was used to prevent slipping. Up to Dec. 28, 1921, the snow plows were out seven times, and much sand has been used to cover the ice.

About 2000 cu. yds. of sand has been stored in the sand shed for winter use.

### NEEDS OF THE DEPARTMENT

The first great need of this Department, is a good gravel bank handy to teams and trucks, the old one being practically exhausted, and the Churchill Bank owned by the City, is at present only available in the winter season when the stream is frozen over. In the street cleaning department the need of a power sweeper and flusher is almost a necessity in order to do consistent work. For general highway work we need a new steam roller as the one we have is old and worn, the tubes are leaky, and it is apt to go to pieces any time, with a new one for heavy work, this one could be used for light work. Two or more trucks could be used to advantage in handling gravel, also a gravel loader, and one or more road machines. The City Stable is in bad shape and unsanitary, and the City really needs a new building. These are not in the form of suggestions, but a hint of the needs of Department to enable it to do more and better work.

Our equipment has been kept in good repair and thoroughly painted. In doing all the work by the Dep't it was thought it could be done cheaper and in a better manner than by contract work, thereby giving work to local men when work was needed.

## FINANCIAL STATEMENT

	Appro- priations	Expendi- tures
Refuse and Garbage Removal . . . . .	\$4,000.00	\$3,811.35
Street Cleaning . . . . .	10,500.00	10,466.87
This sanitation was in charge of the Highway Department.		
Gen. Administration . . . . .	3,100.00	2,538.24
General Highway Expenses . . . . .	69,750.00	63,596.21
R. and M. Sidewalks . . . . .	3,000.00	2,958.00
Construct. Sidewalks . . . . .	2,440.50	2,440.50
Recon. Sidewalks . . . . .	3,500.00	3,454.08
Snow and Ice Removal . . . . .	10,500.00	4,287.47
Street Sprinkling . . . . .	17,590.30	17,482.62
Sprinkling Equip. . . . .	469.20	460.20
Construction Gen. . . . .	2,000.00	2,000.00
Central St. Job . . . . .	1,396.17	1,281.02
Hammond St. Job . . . . .	800.00	294.18
Main St. Job . . . . .	4,523.66	4,523.66
Harlow St. Sidewalk . . . . .	3,493.12	3,189.52
Const. State Rds . . . . .	1,903.15	1,903.15
Balance left in Highway Department . . . . .	14,057.40	

Respectfully submitted,

Arthur T. Campbell,

Street Commissioner.

## Report of the City Undertaker

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*To the City Council:*

The undersigned would respectfully submit the following report, for the ten months, ending January 1, 1922.

### PROTESTANTS

1921

Died in March .....	40
April .....	44
May .....	26
June .....	31
July .....	28
August .....	32
September .....	29
October .....	35
November .....	34
December .....	28
	<hr/>
	327

### AGES

Under 1 year .....	37
Between 1 and 5 yrs. ....	5
5 and 10 yrs. ....	4
10 and 20 yrs. ....	13
20 and 30 yrs. ....	21
30 and 40 yrs. ....	27
40 and 50 yrs. ....	31
50 and 60 yrs. ....	34
60 and 70 yrs. ....	60
70 and 80 yrs. ....	54
80 and 90 yrs. ....	37
Over 90 yrs. ....	4
	<hr/>
	327

## DISEASES

Appoplexy . . . . .	13
Anaemia . . . . .	2
Angina pectoris . . . . .	5
Arterio sclerosis . . . . .	27
Accident . . . . .	6
Bright's Disease . . . . .	1
Bronchitis . . . . .	5
Brain . . . . .	2
Cancer . . . . .	9
Convulsions . . . . .	2
Cholera infantum . . . . .	1
Carcinoma . . . . .	6
Dementia . . . . .	2
Drowning . . . . .	1
Diabetes . . . . .	5
Empyema . . . . .	3
Enteritis . . . . .	2
Exhaustion . . . . .	8
Embolism . . . . .	2
Endocarditis . . . . .	6
Epilepsy . . . . .	1
Gangrene . . . . .	1
Gastritis . . . . .	1
Heart . . . . .	16
Hernia . . . . .	1
Hemorrhage . . . . .	17
Intestinal obstruction . . . . .	1
Influenza . . . . .	1
Melancholia . . . . .	1
Malnutrition . . . . .	3
Meningitis . . . . .	2
Myocarditis . . . . .	10
Nephritis . . . . .	10
Old age . . . . .	1
Oedema . . . . .	3
Pneumonia . . . . .	38
Pyemia . . . . .	1
Peritonitis . . . . .	6
Paresis . . . . .	3
Paralysis . . . . .	2
Premature birth . . . . .	5
Shock . . . . .	3
Senility . . . . .	1

Septicemia.....	6
Suicide.....	6
Stillborn.....	9
Sarcoma.....	1
Tuberculosis.....	22
Typhoid fever.....	3
Uremia.....	6
Ulcer.....	1
Other causes.....	37
	<hr/>
	327
Brought to Bangor for interment.....	69
Carried out of Bangor for interment.....	161
Interments at Mt. Hope Cemetery.....	205
Interments at Pine Grove Cemetery.....	9
Interments at Oak Grove Cemetery.....	17
Interments at Maple Grove Cemetery.....	8
Interments at Webster Ave. Cemetery.....	1
	<hr/>
	465

Respectfully submitted,

R. E. HATHORN,

Supt. of Burials.

## Report of the Fire Chief

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Bangor, Feb. 6, 1922.

*To His Honor, the Mayor, and Members of the City Government:*

In compliance with the provisions of the ordinance, I have the honor of submitting for your consideration the annual report of the conditions and operations of the fire department for the ten months, ending December 31, 1921.

Appropriation.....	\$67,965.00
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### EXPENDITURES

Salaries and Wages.....	\$43,141.17
Horses and care same.....	4,382.98
Fuel and light.....	2,308.31
Auto maintenance.....	1,746.76
Equipments and repairs.....	2,348.92
Other expenses.....	1,445.92
	<hr/>
Total expenses.....	\$55,374.06
	<hr/>
Balance.....	\$12,590.94

### APPARATUS

We have in the department, three steam fire engines, one in service, and two in reserve, two hose wagons, two combination hose and chemical wagons, one combination hose and chemical ladder truck, one chief's auto, and one combination hose and chemical and pumping engine automobile, five hose sleds, one combination hose and ladder sled, one chief's wagon and pung, two exercising sleds, three exercising wagons, one Seagrave auto truck that will be in commission soon, one aerial truck with tractor.



### PERMANENT MEN

The number of permanent men in the department is twenty-nine, and consists of one chief, two district chiefs, and twenty-seven drivers, engineers, hose and ladder men.

### CALL MEN

The call force of the department consists of fifty-eight men divided as follows: one district call chief, seven captains, eight lieutenants, forty-three hose and ladder men.

### HOSE

The amount of hose in the department at the present time is 15,350 feet, of which 8,000 feet is in good condition and 7,350 feet in fair condition. One thousand feet was purchased in 1921. Thirty-one thousand, one hundred and fifty feet of hose was laid at fires during the year.

### HORSES

There are in the department at the present time, fifteen horses, one of these is a hired horse, twelve in good condition.

### ALARMS

The department has responded during the year to 272 calls of which 64 were bell alarms, 208 still or telephone calls, and five out of town.

### VALUATION AND LOSSES

The valuation of property involved in fires for the year was \$688,125.00; insurance, 528,725.00; loss, \$45,465.31.

### RECOMMENDATIONS

I would recommend two thousand feet of hose, which we have got to have at once, I also recommend, more motor apparatus.

## CONCLUSION

In closing, I wish to thank His Honor the Mayor, the city government, committee on fire, chief of police and members of his department and all those who have assisted me in the duties of this office during the year.

To the officers and members of the department, my thanks are due for their faithful attention to duty and their promptness in answering the numerous calls during the year.

E. LaBarrow,

Chief.

## Report of Chief of Police

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*To His Honor the Mayor and City Government:*

Gentlemen:

I herewith submit the annual report of the Police Department for the municipal year ending December 31, 1921.

	Res.	Non-Res.
Assault and battery . . . . .	32	8
Affray . . . . .	4	5
Assault with intent to rape . . . . .	3	0
Abducting enticing unmarried female for the purposes of prostitution . . . . .	1	0
Aiding and abetting the commission of prostitution . . . . .	3	0
Assault on Officer . . . . .	1	3
Assault with intent to kill and murder . . . . .	0	5
Accepting money from a woman engaged in prostitution . . . . .	6	0
Adultery . . . . .	8	0
Assault . . . . .	3	0
Being an idle and disorderly person . . . . .	20	13
Breaking and entering and larceny . . . . .	27	3
Being a fugitive from justice . . . . .	0	1
Being a common runaway . . . . .	0	3
Being a person wanton and lascivious in speech and behavior . . . . .	3	1
Carrying concealed weapons . . . . .	0	3
Concealment of birth . . . . .	1	0
Concealment of a human body . . . . .	1	0
Cruelty to a horse . . . . .	2	0
Drunkenness . . . . .	264	791
Disposing of a human body . . . . .	1	0
Danger of falling into the habits of vice and immorality . . . . .	1	0
Defrauding an Agricultural Society . . . . .	4	7
Defacing a Federal Reserve note . . . . .	0	1

	Res.	Non-Res.
Disorderly conduct. . . . .	0	1
Driving an automobile without the proper iron plates issued by the Secretary of State. . . . .	4	1
Driving an automobile while under the influence of intoxicating liquor. . . . .	7	8
Driving an automobile without a license. . . . .	4	1
Driving an automobile without proper lights. . . . .	1	0
Driving an automobile past an electric, while receiving passengers. . . . .	3	3
Directing and transporting for the purposes of prostitution. . . . .	1	0
Entering and remaining in a building for the purpose of prostitution, lewdness and assignation. . . . .	3	3
Evading car fare. . . . .	1	0
Endangering life by obstructing the Railroad. . . . .	3	1
Forgery. . . . .	1	6
Falsely assuming to be a Police Officer. . . . .	0	1
For other departments. . . . .	0	1
Gambling. . . . .	0	8
Having in possession a dangerous and vicious dog. . . . .	1	0
Insane. . . . .	2	9
Indecent exposure. . . . .	0	1
Illegal depositing intoxicating liquors. . . . .	1	1
Injury to a fence inclosing a burial spot. . . . .	1	0
Keeping a tippling shop. . . . .	1	0
Keeping a house of ill fame. . . . .	3	0
Larceny. . . . .	22	28
Larceny from the person. . . . .	2	1
Lascivious cohabitation. . . . .	1	1
Loitering. . . . .	0	1
Maintaining a common nuisance. . . . .	8	0
Maintaining a gambling house. . . . .	1	0
Manslaughter. . . . .	2	1
Material witness. . . . .	2	3
Manifest danger of falling into habits of vice and immorality. . . . .	0	1
Non Support. . . . .	12	2
Occupying a building and permitting the same to be occupied for purposes of prostitution, lewdness and assignation. . . . .	15	0
Obtaining goods by false pretences. . . . .	1	0
Parole violator. . . . .	0	1
Reckless driving a motorcycle. . . . .	1	0

	Res.	Non-Res.
Reckless driving an automobile . . . . .	11	0
Receiving stolen property . . . . .	4	1
Safe keeping . . . . .	1	2
Single sale of intoxicating liquors . . . . .	4	2
Search for stolen property . . . . .	1	0
Search and seizure . . . . .	3	0
Search for intoxicating liquors . . . . .	3	0
Threatening to commit an offence . . . . .	1	0
Uttering forged instruments . . . . .	0	3
Unlawful depositing intoxicating liquors . . . . .	3	3
Violation of traffic rules and regulations . . . . .	5	3
Violation of a City Ordinance . . . . .	5	1
Vagabond and idle person . . . . .	6	9
Wilful trespass . . . . .	1	0
	<hr/>	<hr/>
Total number of arrests . . . . .		1488
Shelters . . . . .		1013

#### POLICE AUTOMOBILE AND AMBULANCE SERVICE

Conveying people to the different City Hospitals . . . . .	69
Number of people conveyed to House of Correction . . . . .	7
Number of people conveyed to their homes from accident or sickness . . . . .	23
Number of calls responded to by Police Automobile and Ambulance from March 1, 1921 to January 1, 1922 . . . . .	1989
Number of bank alarms responded to . . . . .	4
Number of fire alarms responded to . . . . .	52
Number of Officers responded to fire alarm . . . . .	134
Number of lost children found and returned to parents . . . . .	19
Number of doors found open, West Side . . . . .	108
Number of doors found open, East Side . . . . .	113
Number of safes found open, West Side . . . . .	1
Number of safes found open, East Side . . . . .	2

In submitting this report I desire to express myself upon some things that appear to be necessary for the betterment of this department. I feel that there is need of two motor policemen, one by night and one by day. These men can handle quickly any and all calls for small fires, trespass to lawns and gardens, many complaints which come in from homes to which it is not advisable to send the patrol wagon with an officer.

I wish to take this opportunity of thanking the Mayor and City Government for the co-operation rendered in the administration of the department for the past year, to thank the Judge and Clerk of the Municipal Court for the many kindnesses to me rendered, all of which I fully appreciate and to Dr. H. D. McNeil, I cannot too highly highly express my appreciation for his services to the department which are most valuable.

Respectfully submitted,

Calvin Knaide,

Chief of Police.

## Report of the City Missionary

*To His Honor, the Mayor, and the Members of the City Council:*  
Gentlemen:

The City Missionary herewith submits her annual report for the fiscal year ending December 31, 1921.

### APPROPRIATIONS

Stet-on Fund.....	\$600.00	
Hiram Oliver Fund.....	100.00	
Fogg Fund.....	50.00	
Gifts.....	55.00	
Dance.....	878.00	
		\$1,083.00

### EXPENDITURES

Clothing, Bedding, Boots, Shoes and Rubbers.....	\$326.42	
Groceries.....	172.39	
Medical supplies and medicine.....	30.60	
Fuel.....	86.45	
Telephone.....	7.55	
Household utensils.....	5.20	
Miscellaneous.....	5.92	
Distribution from funds.....	245.88	
Fogg Fund unexpended.....	30.59	
Transportation.....	60.00	
Gifts.....	62.00	
Unexpended Balance.....	50.00	
		\$1,083.00

As per vouchers

This office has responded to 687 calls, has found employment for 42 people. Several wayward girls were sent to an institution. 12 young girls under 17 years of age were returned to their homes and prevented from falling into ways of vice. Four

families consisting of 28 members were aided to take up residences elsewhere as they were handicapped by surroundings here, and would have become charges on the city.

I wish to thank the Mayor and all who have made this work easier by their encouragement and generosity.

Respectfully submitted,

Jennie M. Johnson,

City Missionary.



# Report of City Treasurer and Collector of Taxes

1921-1922

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## TAXES

### State and County Tax:

State Tax.....	\$152,679.17
County Tax.....	40,232.31
	<hr/>
Total State and County Tax.....	\$192,911.48

## CASH RECEIPTS AND PAYMENTS

for the

Fiscal Year Ended February 28th, 1922

1921	
March 1st. Cash on hand and in banks.....	\$19,129.13

## RECEIPTS

### Taxes:

Real and Personal for 1921.....	\$863,459.31
Real and Personal for 1920.....	7,105.44
Real and Personal for 1919.....	229.94
Real and Personal for 1918.....	96.88
Real and Personal for 1917.....	43.72
Real and Personal for 1916.....	66.12
Real and Personal for 1915.....	28.24
Real and Personal for 1914.....	11.78
Real and Personal for 1913.....	18.85
Poll for 1921.....	15,158.00
Poll for 1920.....	645.00
Poll for 1919.....	224.00
Poll for 1918.....	171.00
Poll for 1917.....	151.75

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## CITY OF BANGOR

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Poll for 1916.....	158.00
Poll for 1915.....	118.00
Poll for 1914.....	95.50
Poll for 1913.....	91.00
	<hr/>
Total Tax Collected.....	\$887,872.53

## Tax Titles Redeemed:

Tax Titles, 1909.....	\$21.90
Tax Titles, 1910.....	103.76
Tax Titles, 1912.....	11.00
Tax Titles, 1913.....	13.68
Tax Titles, 1914.....	47.94
Tax Titles, 1915.....	249.32
Tax Titles, 1916.....	204.99
Tax Titles, 1917.....	232.06
Tax Titles, 1918.....	461.26
Tax Titles, 1919.....	747.25
	<hr/>
Total Tax Titles Redeemed.....	\$2,093.16

## From State:

Railroad and Telegraph Tax.....	\$35,230.79
---------------------------------	-------------

## LICENSES AND PERMITS

Street Openings.....	\$157.75
Dogs.....	778.00
Billiards.....	120.00
Employment Agencies.....	150.00
Peddlers.....	120.00
Circuses.....	35.00
Plumbers.....	32.50
Fireworks.....	79.00
Meat Carts.....	350.00
Theatres.....	130.00
Shooting-Galleries.....	20.00
Auctioneers.....	12.00
	<hr/>
Total Licenses and Permits.....	\$1,984.25

**GRANTS AND GIFTS FROM STATE**

**For Education:**

Aid to Industrial School.....	\$4,047.58
Aid to Free High School.....	500.00
School and Mill Fund.....	16,535.18
Common School Fund.....	39,536.91

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\$60,619.67

For Armory.....	700.00
Free Public Library. Stipend for 1921.....	500.00
Highway, Improving State Roads.....	2,628.05

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Total Grants and Gifts from State..... \$64,447.72

**SPECIAL ASSESSMENTS**

Street Sprinkling.....	\$10,854.62
Sewer Assessments.....	1,341.56
Sidewalk and Curbing Assessments.....	857.03

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Total Special Assessments..... \$13,053.21

**PRIVILEGES**

**Public Service, Franchises and Wires:**

Bangor Railway & Electric Co., Street Franchise.....	\$2,800.00
Bangor Railway & Electric Co., Bangor & Brewer Bridge Franchise.....	1,600.00

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Total..... \$4,400.00

**CITY HALL**

Rent of Hall.....	\$2,114.00
Rent of Offices.....	1,625.81
Rent of Court Street Building.....	237.50

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Total..... \$3,977.31

**PROTECTION OF PERSONS AND PROPERTY**

**Court Fees:**

Supreme Judicial Court.....	\$1,693.10
Municipal Court.....	7,185.63

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Total Court Fees..... \$8,878.73

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CITY OF BANGOR

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**Police:**

Use of Patrol.....	\$44.70
All Others.....	20.01
	<hr/>
Total Police.....	\$64.71

**Fire:**

Miscellaneous.....	\$9.25
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**Electric:**

Miscellaneous.....	\$224.41
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**MISCELLANEOUS ACCOUNTS RECEIVABLE**

Accounts Receivable.....	\$286.47
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**REFUNDS**

Miscellaneous.....	\$130.49
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**CEMETERIES**

**Sale of Lots:**

Mt. Hope.....	\$168.00
Oak Grove.....	30.00
Pine Grove.....	40.00
	<hr/>
Total.....	\$238.00

**HIGHWAY AND BRIDGES**

Accounts Receivable.....	\$5,266.48
Widening Central Street.....	5,032.15
	<hr/>
Total Highway and Bridges.....	\$10,298.63

**CHARITIES**

**Almshouse and Farm:**

Sale of Hay and Grain.....	\$187.19
Sale of Live Stock.....	75.00
Miscellaneous.....	70.35
	<hr/>
Total.....	\$332.54

**REIMBURSEMENTS: CHARITY**

From Individuals.....	\$1,227.34
From State of Maine.....	7,864.86
From Other Cities and Towns.....	2,982.64
	<hr/>
Total.....	\$12,074.84

**EDUCATION**

Tuition.....	\$8,823.96
Furnishing Heat to Public Library.....	1,339.72
	<hr/>
Total.....	\$10,163.68

**INTEREST**

On Bank Deposits.....	\$1,830.59
On Fogg Fund.....	25.00
On Tax Titles Redeemed.....	216.85
On Taxes.....	1,207.60
	<hr/>
Total.....	\$3,280.04

**RECORDING DEEDS**

Recording Deeds.....	\$11.50
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**SOLDIERS' BENEFITS**

State Pensions:	
State Pensions.....	\$7,854.00

**UNCLASSIFIED**

Receipts from Telephone Booths.....	\$144.07
Receipts from Weighing Scales.....	6.80
	<hr/>
Total.....	\$150.87

## BANGOR AND BREWER BRIDGE

Received from Brewer for their proportion of maintenance . . . . . \$549.27

## PUBLIC SERVICE ENTERPRISES

Sale of Water . . . . .	\$86,500.00
Temporary Loans . . . . .	\$350,000.00
	<hr/>
	\$1,504,106.40
Transfer from New School House Fund . . . . .	5,279.09
	<hr/>
Grand Total . . . . .	\$1,528,514.62

## PAYMENTS MADE ON ACCOUNT OF WARRANTS

For the Fiscal Year Ended December 31st, 1921

Warrant No.	Amount
97 . . . . .	\$420.84
99 . . . . .	6,641.78
100 . . . . .	173.10
101 . . . . .	22,919.18
1 . . . . .	100.00
2 . . . . .	22,081.20
3 . . . . .	565.00
4 . . . . .	502.00
5 . . . . .	32,375.87
6 . . . . .	4,101.42
7 . . . . .	414.90
8 . . . . .	8,198.17
9 . . . . .	22,853.06
10 . . . . .	766.00
11 . . . . .	23,155.35
12 . . . . .	4,246.72
13 . . . . .	211.00
14 . . . . .	3,948.82
15 . . . . .	540.06
16 . . . . .	429.75
17 . . . . .	9,794.51
18 . . . . .	15,522.45
19 . . . . .	24,633.81
20 . . . . .	278.00
21 . . . . .	625.19

## 282 REPORT OF CITY TREAS. AND COLL. OF TAXES [1922

Warrant No.	Amount
22.....	635.75
23.....	30,921.03
24.....	14,454.91
25.....	17,601.43
26.....	664.00
27.....	32,464.76
28.....	254.00
29.....	6,143.35
30.....	2,316.60
31.....	7,640.85
32.....	714.90
33.....	10,535.18
34.....	17,727.15
35.....	8943.00
36.....	18,040.23
37.....	487.00
38.....	8,327.95
39.....	4,030.30
40.....	612.30
41.....	21,426.31
42.....	30,685.35
43.....	2,508.60
44.....	6,226.99
45.....	8,588.98
46.....	202.00
47.....	777.82
48.....	5,875.16
49.....	4,050.08
50.....	295.88
51.....	19,501.05
52.....	25,256.60
53.....	291.00
54.....	23,830.57
55.....	500.00
56.....	2,575.48
57.....	2,177.67
58.....	19,887.04
59.....	626.00
60.....	619.75
61.....	163,480.99
62.....	32,657.01
63.....	1,062.00
64.....	42,360.56
65.....	192.00

Warrant No.	Amount
66.....	208,706.61
67.....	527.00
68.....	3,868.86
69.....	316.90
70.....	61,213.08
71.....	14,613.55
72.....	306.00
73.....	36,910.63
74.....	4,259.19
75.....	11,453.47
76.....	1,056.10
77.....	28,798.21
78.....	17,820.70
79.....	30,007.90
80.....	848.00
81.....	4,437.28
82.....	3,100.11
83.....	762.50
85.....	172,260.99
Total Amount Paid on Warrants.....	\$1,396,934.84
Total Receipts.....	\$1,528,514.62
Total Disbursements.....	1,396,934.84
Cash Balance.....	\$131,579.78

## BALANCE, DECEMBER 31st, 1921

Eastern Trust & Banking Company, Bangor...	\$34,461.85
Merrill Trust Company, Bangor.....	22,776.52
First National Bank, Bangor.....	17,073.20
Merchants National Bank, Bangor.....	11,271.63
Merchants National Bank, Boston.....	39,532.29
Deposits made up. (To be deposited).....	5,449.29
Petty Cash.....	1,015.00
Cash Balance.....	\$131,579.78

The above cash consists of:

Operating Cash.....	\$125,873.39
Trust Fund Cash.....	4,706.39
Petty Cash.....	1,000.00
	\$131,579.78



NEW SCHOOLHOUSE ACCOUNT

(Thirteenth Street School)

RECEIPTS

Cash Balance, February 28th, 1921 . . . . .	\$6,658.85	
Interest . . . . .	3.69	
Refund on Insurance . . . . .	18.60	
	<u>          </u>	\$6,681.14

DISBURSEMENTS

As Per Warrants	Amount Paid	
101 . . . . .	\$689.40	
36 . . . . .	431.36	
75 . . . . .	159.92	
78 . . . . .	99.08	
	<u>          </u>	\$1,379.76
Transferred to General Cash, March 10th 1921 . . . . .	\$5,297.69	
	<u>          </u>	\$6,677.45
Total Disbursements . . . . .		
		<u>          </u>
Balance on hand . . . . .		\$3.69
December 31st, 1921.		



# Report of the Schools



## SCHOOL BOARD

### Elected

1920 ARTHUR C. NICKERSON, 67 Parkview Ave.. Term expires 1923  
1921 JANE P. ROBERTS, 186 State Street..... Term expires 1924  
1921 JERE F. ANGLE, 410 Hammond Street ..... Term expires 1924  
1922 CHARLES D. CROSBY, 223 State Street .... Term expires 1925  
1922 WILLIAM K. HALLETT, 390 Center Street... Term expires 1925

### Officers of the Board

CHARLES D. CROSBY, Chairman  
TRUE C. MORRILL Secretary

Regular meeting of the School Board, the second Tuesday of each month  
at 7.30 p. m.

### Superintendent of Schools

TRUE C. MORRILL

### Clerk

M. IRENE McCART

### School Agent

CHESTER P. STEWART

### Truant Officer

CHESTER P. STEWART

Office of the Superintendent of Schools—Room 106, High School Building.

Office is open from 8.30 o'clock a. m. to 12 m. and from 2. p. m. to 5 p. m.

Office hours of the Superintendent—School days: 8 to 9 a. m. and 4 to  
5 p. m. Saturdays: 9 to 11.30 a. m.

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Office of the School Agent—Room 106, High School Building.  
Office hours—8.30 to 9.30 and 3 to 4 p. m.

## CALENDAR

Fall Term begins Sept. 11, 1922 Closes Dec. 15, 1922—14 weeks.  
Winter Term begins Jan. 2, 1923 Closes March 23, 1923—12 weeks.  
Spring Term begins April 9, 1923 Closes June 15, 1923—10 weeks.

## Report of the Superintending School Committee

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Bangor, Maine, July 1, 1922.

*To the Honorable Mayor and City Council of Bangor:—*

The Superintending School Board respectfully tenders the following report.

It has always been customary for the School Board to render a report to the Mayor and City Council covering the work in the schools under their charge. This custom originated many years ago, before the days of School Superintendents, when practically all the affairs of the department were administered directly by the Board. Under present conditions the Superintendent has direct charge of our school system, caring for all details of an educational nature, answerable to and under the advice of the School Board. Practically all matters relating to our schools are therefore covered in the full and comprehensive report of the Superintendent. There are, however, a few matters that may be mentioned in this report. The Board is particularly concerned with the financial management of the department. The budget for the present year was most carefully prepared having regard for the imperative needs of the department with due regard for economy. The City Council apparently appreciated these facts by granting the budget as presented, and their action is appreciated by the Board, and it will be our earnest endeavor to keep strictly within the appropriation. An unusually large sum was set apart this year for repairs to school property, which, due to conditions for the past few years, has been necessarily somewhat neglected. It is the opinion of the Board that an equal sum will be required for the next two years to restore the buildings to good condition.

The number of pupils in both grade and high school is constantly increasing and their proper housing has become a grave problem. The High School building, built in 1912-13, thought

at its completion to be ample, has already become much overcrowded, some three hundred more pupils being in attendance the past year than the building was designed for. The conditions in this school will be bettered the coming year by holding two daily sessions, in the forenoon for the three upper classes and in the afternoon for the freshman class. This is not an ideal arrangement, but seems the best solution of the difficulty at present possible. The Fairmount School completed but three years ago, already fails to accommodate the pupils in that section, and all grade schools are overcrowded.

It seems imperative that a new grade school be built at once on the east side of the city and with the consent and cooperation of the City Council, the Board hopes to make a beginning in this direction during the present year. Desiring to have expert opinion and advice regarding our school system, particularly regarding the housing problem, the Board have employed N. L. Englehardt of Columbia University to make a survey of the school situation in the city. Dr. Englehardt's report, which has been published in the daily papers and which is also being printed in pamphlet form, is a most comprehensive paper and has the approval of the Board, who urge its study by all interested in the betterment of school conditions in Bangor. The Board feels that the teaching force in our schools is of high caliber and devoted to its high calling.

We can not close this report without expressing our regret at the loss to the city in the resignation of Mr. Morrill, who has served as Superintendent of Schools most efficiently for the last two years, and at the same time we congratulate Mr. Morrill on his opportunity for work in a larger community. The Board feels sure that it has obtained in the person of Mr. A. B. Garcelon a man for the position of Superintendent who is eminently fitted by education, experience and personality to carry on the work of education in Bangor in a most satisfactory manner.

Arthur C. Nickerson

Jere F. Angley

Jane P. Roberts

Charles D. Crosby

William K. Hallett

## Educational Budget for the Year 1921 (Ten Months)

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### General Administration:

Salary of Supt., 5 Members of School Board, 8 Medical Inspectors, and 2 clerks . . . . .	\$5,816.66	
Office Supplies . . . . .	450.00	
School Agent . . . . .	1,250.00	
		\$7,516.66

### Teachers' Salaries:

High School, Inc. Man. Tr. and Dom. Sci.	67,549.95	
Common School, Inc. Man. Tr. and Dom. Sci. . . . .	111,903.71	
		\$179,453.66

Text-books and Supplies . . . . .	\$20,000.00
-----------------------------------	-------------

### Janitors' Service:

High School Janitors and Engineers . . . .	\$7,299.18	
Common Schools . . . . .	8,668.34	
		\$15,967.52

### Fuel and Light:

High School . . . . .	\$4,625.00	
Common School . . . . .	12,625.00	
		\$17,250.00

Maintenance and Repairs . . . . .	\$32,000.00
Manual Training Supplies . . . . .	1,300.00
Domestic Science Supplies . . . . .	900.00

## Night School:

Teachers' Pay Roll.....	\$1,265.00	
Night School Supplies.....	300.00	
	<hr/>	\$1,565.00
Physical Education Teachers.....		1,361.00
Incidentals and Insurance.....		10,304.82
Water for Schools.....		300.00
Conveyance.....		1,100.00
		<hr/>
Total.....		\$289,018.66

## Report of the Trustees of the French Medal Fund

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*To the City Council:*

Gentlemen:—The following awards of the C. E. French Medals were made for the school year 1921–1922:

### HIGH SCHOOL

Scholarship: LeRoy A. Campbell  
Elizabeth P. Clough

Essay: Mary B. Belinian  
Eugene K. Rowe

Declamation: Robert F. Cochran  
Louise M. Ayer

Stenography and Typewriting:  
Clara W. Mason

### ABRAHAM LINCOLN SCHOOL

Barbara Whitman  
Mary Quinn  
Harvey Cutler  
Katherine Trickey

### HANNIBAL HAMLIN SCHOOL

Doris Richardson  
Marjorie E. Smith  
Theodore Persons  
Marion E. Lord  
John T. Coffin  
Evelyn F. Friend

### RURAL

James Hennigan, Sherburne School



## Tyler

Ester Lavina Snow

## Avenue

Flora M. Jellison

Luda Louise Jones

Alden A. Morrison

Vernon W. Richardson

## North Bangor

Florence Irene Chase

Leonard Alphonso Hazelton

Florence Ruth Peavey

## Sherburne

James Hennigan

Bertrand Knowles

Glenice Pinkham

## Report of the Superintendent of Schools

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*To the Superintending School Committee of Bangor, and Citizens:*

I came to Bangor just about two years ago at this time, hoping to have the pleasure and opportunity to work with you, and the people of Bangor for at least five years. Larger fields of endeavor have called me to which it seems unwise for me not to respond. Many of my larger plans are still in the formative period and it will take from three to ten years to consummate them.

I feel that one of the most far-reaching pieces of constructive work undertaken and accomplished is the unification of the Kindergarten work with that of the regular grades so that now we can say that we have a K-6-3-3 plan well under way which is the last word in desirable educational progress. It will be noted that Dr. Engelhardt mentions this organization in his report. Much will be heard of this organization in years to come which will give Bangor no small amount of pride to know that she was one of the pioneers to sanction the movement.

That Bangor has the best Kindergarten System in the State is not disputed. This is due largely to the untiring twenty-two years of efficient work by Miss Nellie E. Brown who is concluding her work here this year. She has always had great visions of the possibilities to be accomplished by Kindergarten training and has lived to see them fulfilled. She is leaving the work, still able to watch with interest its continuing growth. The organization has ever profited by her many benefactions and in leaving still desires to do something substantial, financially as a parting gift. No community can have too many such public spirited citizens looking to the welfare of its future citizens, and every community has too few people of means who are willing

to bestow such benefactions—and more especially our own community.

In looking for a worthy successor to Miss Brown, we feel that we have found such a person, and Miss Brown acclaims her as such. We have secured the services of Miss Mabel M. Osgood, a native of Oak Park, Illinois. Miss Osgood is a graduate of the National Kindergarten College of Chicago. She is receiving her Master's Degree from Columbia University this year, having taken the year for graduate study. In accepting the election here it was necessary for her to get her release from the College of Industrial Arts in Denton, Texas, from which she had obtained a leave of absence for the year. She has been State Chairman of the Kindergarten Department of the Mothers Congress and Parent Teachers Association for the past three years in Texas. Miss Osgood is to serve as Kindergarten Supervisor, and to have Supervision of the work in the first three grades.

Within the past year the Manual Training Department has given over most of its work to practical tasks in making useful things for the schools. It has made ten sets of large house building blocks for the Kindergartens. These blocks would have cost about \$65.00 per set, if bought in the market, whereas the material for the ten sets were supplied from the high school wood working room at the cost of materials, the ten sets costing about \$120.00, which represents the cost of raw materials. I am hopeful that my policy of desiring to see the Kindergartens fully equipped may be continued. This can be done gradually without too great a burden to anyone. No school can get efficient results without the proper working tools which are a very small per cent of the total school costs. If this is not done the effectiveness of the whole educational product can be spoiled in a measure.

### THE JUNIOR HIGH SCHOOL

Beginning last fall the work in the seventh and eighth grades was departmentalized after the ninth grade had been abolished by vote of the School Board, upon my recommendation. This was a step in bringing about the Junior High School organization.

In many places the upper grades have been departmentalized and those in charge have chosen to say that they had a Junior High School. This is far from the real intent and purposes of the Junior High School, and has served in many places to discredit such an organization. Departmentalization or having special teachers for separate subjects, is only one of the many things the Junior High School attempts to do. One of the most important functions of the Junior High School is to assemble pupils of the seventh, eighth and ninth (first year High School) in one building. This building is not a regular grade building nor a high school building, but one designed especially for presenting work to pupils of the adolescent age. The problems of adolescence are among the most important, delicate and difficult that any school has to solve. During school years when girls and boys reach this critical stage in their development, when unsympathetic and unskillful action by teachers may bring to naught much of the work of education already acquired, we need all the light of modern knowledge and equipment to successfully train our future citizens for successful lives. The Junior High School is designed to accomplish this purpose through a Principal skilled in Vocational Guidance whose business it is to watch the tendencies and aptitudes of his pupils through the first two years of this school. In the last year a course showing the possibilities included in future school courses and vocations, conducted by the principal in the light of the knowledge gathered of individual pupils during the previous two years, helps him to keep them out of blind alleys which they would otherwise wander into unknowingly. Each year many parents come to me saying, "My son or daughter does not know what course or vocation to choose, and I cannot advise him or her. What would you advise?" That is a thing which cannot be done off-hand. The Junior High School goes a long way toward solving these and other less important problems.

Some of the Junior High School advantages are as follows:

- I. An enriched curriculum.
- II. A departmentalized organization with a more informal and socialized classroom procedure.
- III. A different social organization within the school.

### THE JUNIOR HIGH SCHOOL PLANT

In addition, the Junior High School Building is to be a community center to a greater degree than either the high school building or the elementary school building has been. The enriched curriculum does not necessarily mean a wide variety of new subjects from which to choose. There seems to be a tendency to limit the range of elective subjects more than in the Senior High School. This has its effect on the size of the building. With a limited number of electives it is possible to operate a Junior High School economically with a smaller enrollment than is required for a school with a wide range of choice in the program studies. It then becomes possible to educate pupils of Freshman Grade at a lower cost per pupil than in the present four-year High School. This makes it possible to have Junior High Schools of 900-1000 pupils with all the advantages that can come from a close acquaintance between faculty and students and among students themselves. An additional factor making for the smaller Junior High School building is the age of the Junior High School children which makes it desirable that they go a shorter distance to school than the older pupils. The normal ages of these pupils are from 12 to 15 years.

The enriched curriculum does mean, however, that we must provide in the Junior High School building for Science rooms, shops for boys, household art rooms for girls, rooms for music and rooms for drawing, a large and a small gymnasium and, on the outside, large fields for organized athletics. Many of the larger buildings have two small gymnasiums for corrective gymnastics or special exercise work. Many schools, which is in accord with Dr. Engelhardt's idea, use the auditorium space as a gymnasium, runs being provided under the stage for the movable seats. Nearly all junior high schools include a swimming pool. The increased space devoted to physical education is due to the increased emphasis placed on health work in the junior high school curriculum which generally makes gymnasium work compulsory for all pupils throughout the three years. Some of the schools are carrying out this idea still more completely in play fields adjoining the buildings so that large numbers of the pupils may take part in various kinds of sports.



The science rooms are not taking the form of the rather elaborately equipped laboratory and amphitheatre lecture room but are large rooms with a rather simple equipment of tables and chairs and in some cases a woodworking bench and a lathe are installed in order that projects involved in making simple forms of apparatus may be carried out. While some of the buildings recently erected have provided for highly specialized shop work there seems to be a tendency in some buildings to turn away from the multiplicity of special shops to the large general shop and to relate closely the mechanical drawing to the shop projects of the pupils. The experimental nature of the junior high school is no where better shown than by those planning junior high school courses for the proper type of industrial work.

There seems to be a better agreement in the girls' work and there is a decided tendency for the unit kitchen equipment with stock kitchen ranges and kitchen cabinets to take the place of the familiar horse-shoe type of domestic science laboratories. There is a definite attempt to get away from the laboratory idea and get the home kitchen atmosphere where a group of from five to six girls can prepare a complete meal in family sized portions to serve to themselves or to take home for home consumption.

There is a decided tendency to install the lunch room in connection with the household arts work. Some schools plan to operate the lunch rooms as one phase of this department's program. In this connection an interesting use of the school lunch room as a sewing room is made in some places. While this makes some problems in program making, on the other hand where it can be successfully carried out it results in a very great economy in building cost as ordinarily the lunch room which will accommodate usually at least 200 children stands idle most of the school day. However with eventual need for space it is thought advisable by many to provide the two as separate rooms.

The program of studies of many of the junior high schools makes provision for some sort of auditorium work for all students. While all the Junior High Schools in the country have an auditorium as a necessary part of their plan they do not agree as to the number of pupils this room should accommodate relative to the capacity of the building as a whole. Most of the

larger schools plan for an auditorium large enough to seat from about one-third to one-half the total capacity of the school. (The smaller buildings plan for a room to seat the entire school, where it doesn't exceed 1000. It is an undeniable advantage to have the entire school together and since an auditorium seating from 800 to 1000 can be built and operated for much less than the larger room and is useful on many more occasions, the smaller schools are justified in building an auditorium to handle the capacity of the school.) The stage of the auditorium is generally large enough for choruses of 200 or more and has some provision for the storage of scenery.

The departmental organization calls for carefully planned corridors so that the pupils may be shifted at each period of the day quickly and without confusion. Most of the plans of organization call for home room teachers and some building plans keep the elementary school cloak room instead of adopting the high school plan of the individual locker for each child. The tendency is toward the locker plan, however. Few of the buildings are providing study halls. Some are using vacant classrooms for study under the direction of the teachers. Others have lengthened the periods and are trying some form of supervised study which means that all but a small fraction of the students are assigned to some teacher each period of the day for some kind of recitation and study. Careful provision should be made for library work, and a plan should be adopted for an affiliation between its library and the public library of the city. This provision is to make it possible to send pupils to sources of information for settling problems. It also develops ability in the use of libraries and reference books.

The capacity of the junior high school in such a building is nearly equally divided between special rooms and the general class rooms. The class rooms in size are usually half way between those of the elementary school and the high school class rooms. Such rooms are usually planned for a thirty-five pupils capacity.

Most buildings have carefully planned rooms for administration purposes. All provide rest rooms and clinic rooms as well as work and conference rooms for the faculty.

That the junior high school is to be much more of a community center than our other school buildings has been shown by the care that has been taken in planning the building to make it easy to use shop, gymnasium, pool, or auditorium by the public without interfering with other parts of the building. In addition, rooms for social activities for the pupils and the people of the community have been provided in some cases.

Generally speaking the buildings are two or three stories in height with no basement rooms. By basement is meant a room partially or wholly below grade. There is evidence of a desire on the part of school architects to express in the exterior of the building something of the character of the school it is intending to house. The new program in the new school has seemed to set school men and school architects free from following the more or less standardized exterior of flat roof and block house type and has encouraged them to give the building an individuality that sets it apart from the conventional type of public school building. This is a good tendency and if the junior high school will help to set us free from the barrack type of school building it will have well served the present and next generation. We are building durable and permanent buildings nowadays and if our older buildings of brick and wood have had a life of from thirty to fifty years surely these newer constructions of concrete and steel have a much longer life before them. Accordingly we should look with favor on any attempt to provide a building whose beauty will be as enduring as the material from which it is made.

The building features peculiar to the junior high school arise out of the type of work this school is planned to do and the age and maturity of its pupils. The chief difference lies in the number and character of the rooms for so called "special" activities, some brought into it from the senior high school though in simpler form, and some that grow out of its own peculiar purpose. While there is still great diversity in the buildings so far built no other type of school architecture has been so carefully and scientifically studied and planned and we shall soon arrive, not at uniformity of plan, but at what we shall soon arrive, the typical junior high school.



Some of the most successfully built junior high schools are found as follows:

Barbour School, Detroit.  
Audubon School, Cleveland.  
West Junior High School, Jackson, Mich.  
Dennis School, Richmond, Ind.  
East Side School, Richmond, Ind.

It is hoped that when the Junior High Schools are built in Bangor that the plans will be carefully checked up so they will be in accordance with the latest standards for such buildings. It is easier to check mistakes out of plans than out of completed buildings. Educators like Dr. Engelhardt are prepared to do such work at a very small cost.

### SCHOOL ACTIVITIES

It is my plan to have one big annual event in each of the twelve grades—something to which the pupils will look forward to as belonging to their own. We have had for many years in the high school, Junior and Senior Exhibitions. To extend the idea into the grades it is necessary to choose an event that is sizeable enough and employs enough pupils to be attractive for the whole group, and in the preparation of which a long span of interest is utilized. It is also necessary to choose something which has inherent interest for the pupil-age of the grade in which it is given.

In experiments through a term of years I have found that the dramatization of Longfellow's *Hiawatha* makes an admirable event which to close the school year in the fifth grade. The out-of-door setting lends charm to the whole affair and it is always well attended. Dramatization of *Miles Standish* makes a good Winter event for the eighth grade. Both these events are illustrated in this report.

Properly graded materials placed in the hands of the pupils under proper guidance always gets a spontaneous response from pupils. The illustration of the scenes from *Robin Hood* made by the sixth grade pupils by paper cutting. An original project

in Maine Geography has been conducted by the eighth grade pupils this year. A picture of the room with the map of Maine dissected along county lines together with the projectoscope which was used to show post card pictures sent in with the eight grade pupils write-up of each respective town in the State. Educators who have observed the work have been surprised at the wide range of interests which the work has elicited from the pupils. I am hoping the survey will be completed next year and the collected materials will be so organized that the work of studying our own state hereafter will be accomplished in one-half the eighth grade year. The Bangor Daily News has been of great assistance in helping the pupils to get individual texts by printing the single letters. Without this cooperation this would have been greatly hampered if not rendered impossible. The outline sent to the different towns for getting some uniformity in the answers is given below.

#### PRINTING DEPARTMENT

With a two-session high school we are to have released for other use the room formerly used for the Grade Manual Training work. Last year a partition was built in the room making two small recitation rooms. In the past the Wood-working Department has been handicapped in not being able to finish materials properly because they have had no room in which to do the finishing work. One of these rooms will serve for this purpose during the next school year. As all the new materials used in this Department are made into useful and needed materials for the schools it is imperative there should be a finishing room.

The School Department pays about \$1800 every year for printing. Two-thirds of this expense goes for labor. The School Department can well afford to equip a printing department which will cost around \$2500. A competent teacher of the subject can be employed for \$1500. This department could not only more than pay its own way, but will be a valuable educational asset for the city while supplying trained apprentices to the local printing shops. The printing industry in Bangor is not

a small local industry, and would readily give work to efficiently trained workers. In this way the efficiency of the School Department would be greatly augmented as it could then have printed forms wherever needed and which are largely gone without, due to being financially prohibitive. This department could be housed in one of the small rooms that will be made available this fall.

### SCHOOL METHODS

During the past year a course of lectures has been supported by one hundred twelve teachers who have paid an enrollment fee of \$5.00 each which has financed the course. Educators of National prominence have given eighteen lectures, a list of which follows:

#### THOSE ENROLLED IN THE COURSE

- |                           |                            |
|---------------------------|----------------------------|
| 1. Allamby, Kate M.       | 25. Dennett, Mable F.*     |
| 2. Allen, Charles P.      | 26. Donnelly, Helen L.     |
| 3. Andrews, Myra H.       | 27. Donovan, Frances K.*   |
| 4. Atwater, Frances P.    | 28. Drinkwater, Mabel M.*  |
| 5. Blaisdell, Nellie P.*  | 29. Emery, O. C.           |
| 6. Blaisdell, Sadie R.*   | 30. Ferguson, Anna L.      |
| 7. Bradbury, Nellie L.    | 31. Fogg, Gertrude E.*     |
| 8. Brown, Dorothy W.      | 32. Foster, Blanche E.     |
| 9. Brown, Leonora M.*     | 33. Furbush, Corinne L.    |
| 10. Brown, Nellie E.      | 34. Gale, Nellie I.*       |
| 11. Calligan, A. Blanche* | 35. Gallagher, Grace E.*   |
| 12. Canlett, Anna G.      | 36. Gallagher, Margaret M. |
| 13. Clayton, Mary         | 37. Gallagher, Mary C.     |
| 14. Cleland, Muriel B.    | 38. Getchell, Irene C.     |
| 15. Collins, Alice M.*    | 39. Gibbons, Mary T.*      |
| 16. Coney, Eunice R.      | 40. Glass, Grace E.*       |
| 17. Cousins, Mildred F.   | 41. Gould, Abbie S.        |
| 18. Cowan, Frances R.     | 42. Gould, Ruby M.*        |
| 19. Cross, Ellen F.       | 43. Gustin, Edith B.       |
| 20. Curley, Ellen G.*     | 44. Herlihy, Eleanor A.    |
| 21. Curran, B. Teresa*    | 45. Hutchins, Lois P.      |
| 22. Curran, Esther M.     | 46. Jones, Anna A.         |
| 23. Curtis, Lilla E.*     | 47. Kilfoil, Anna F.*      |
| 24. Cushman, Bertha M.*   | 48. Kirstein, Augusta P.*  |

- |     |                        |      |                        |
|-----|------------------------|------|------------------------|
| 49. | Lynch, Mary E.*        | 80.  | Preble, Lucie W.*      |
| 50. | Longfellow, Frances E. | 81.  | Quigley, Katherine*    |
| 51. | Lord, Gertrude F.      | 82.  | Reilly, Mary Agnes     |
| 52. | Lord, Jessie*          | 83.  | Rogan, Marian Louise   |
| 53. | MacEacharn, Clara L.   | 84.  | Robinson, Hope*        |
| 54. | Malone, Sarah M.       | 85.  | Rowe, Carrie H.*       |
| 55. | Mallar, Blanche I.     | 86.  | Ryder, Sarah A.*       |
| 56. | Mansur, Adelaide L.*   | 87.  | Steward, Ethlyn M.     |
| 57. | Marston, Virginia D.   | 88.  | Stover, Grace S.       |
| 58. | McCarthy, Lillian C.*  | 89.  | Straw, Mae O.          |
| 59. | McCarthy, Minnie E.*   | 90.  | Sullivan, Mary E.*     |
| 60. | McCann, Katherine R.   | 91.  | Vose, Mary M.          |
| 61. | McCoy, Bessie *        | 92.  | Walsh, Mary A.*        |
| 62. | McCaw, Elizabeth A.    | 93.  | Welch, Bernice S.*     |
| 63. | Menges, Jennie L.*     | 94.  | Weymouth, Florence F.* |
| 64. | Mooney, Mary E.        | 95.  | Whitley, Flora E.      |
| 65. | Morse, Maude H.        | 96.  | Withee, Alzada C.*     |
| 66. | Mosher, Harriet L.     | 97.  | Alma M. Berry          |
| 67. | Mountaine, Augusta*    | 98.  | Clara L. Spinney       |
| 68. | Mountaine, Helen J.*   | 99.  | Bernice I. Smith       |
| 69. | Mullaney, Agnes M.*    | 100. | Agnes R. Kelley        |
| 70. | Mullen, Marion J.*     | 101. | Mrs. Eleanor E. Brown  |
| 71. | Neville, Ann           | 102. | Angela T. Thayer*      |
| 72. | Nickels, Emma          | 103. | Herbert Poole          |
| 73. | Nickerson, Elizabeth * | 104. | Mrs. O. C. Emery       |
| 74. | Norton, Elizabeth A.*  | 105. | Annie L. Roney         |
| 75. | O'Connor, Louise A.    | 106. | Mrs. Alice M. Allen    |
| 76. | Parker, Elizabeth C.*  | 107. | Agnes R. Kelley*       |
| 77. | Paulin, Clara B.       | 108. | Bernice Smith*         |
| 78. | Pretto, Pauline F.     | 109. | Helen C. Hickson*      |
| 79. | Preble, Kathryn T.*    |      |                        |

\*Since this lecture Course was given under my direction as Extension Lecturer for the University of Maine, no credits could be given for the course unless some paper was written at the end of the course. The names in the above list with the asterisk (\*) after them are the members who wrote a theme at the conclusion of the course on the lecture from which they derived the most benefit.

## LIST OF LECTURERS

Date	Lecturer	Subject
1921-1922		
Dec. 5-9	John C. Gray	Numbers by Development
Dec. 8	Miss Elliott	Primary Reading
Jan. 6	Ernest Cobb	Literature as a Basis for Reading

Jan. 13	Dr. Wallace W. Atwood	Geography
Jan. 20	Agnes Burke	Primary Education
Jan. 27	Alice M. Treat	English
Feb. 16	Olive A. Kee	Arithmetic
Feb. 21	Prof. Wilmot B. Mitchell	Preparation for College
Feb. 28	John F. Sprague	Maine History
Mar. 14	Drew T. Hathorne	"Maine"
Mar. 18	Dr. Arthur S. Otis	Intelligence Tests
Apr. 13	Frank Wright	The Junior High School
Apr. 25	Dr. N. L. Engelhardt	A Self Survey
May 9	Dr. Payson Smith	Educational Ideals
May 9	Dr. Augustus O. Thomas	Education in Maine

Note: Some lecturers gave more than one lecture so that eighteen lectures were given.

This Course was organized by me after it was sanctioned by the School Board on the condition that it be self supporting. I believe it would be well worth while to subsidize such a course so that subscription funds from the teachers would be matched by the School Department. This gives the teachers specific training for their work while in the actual work of teaching. This renews the teachers' interest in new methods, inspires them to greater and better efforts, all of which return to the children in real educational advancement. Without such things being done teachers are too likely to gravitate into set methods which slow up the whole product of learning.

I find this so in many subjects where some teachers using the same text book through many years, require the pupil to know it just as well as they, themselves, regardless of its importance. Ernest Cobb of Newton, Author and Educator has gained some prominence through the statement "that the amount of material and of factual knowledge required for memorization in the school should be greatly reduced. To demand of growing children a standard of minuteness in regard to content knowledge which is never practiced by their elders is the height of absurdity. Our geographies, our histories, our arithmetics, are full of facts, which are of little value, and which no adult person would attempt for a moment to carry in his mind. To demand of the pupil that he memorize such facts for the daily lesson, accumulating rapidly

a body of material which, when the brain cells reach a point of saturation, must soon be displaced by new and equally valueless material, is to condemn the student to the condition of a donkey which is kept forever chasing its meal-bag without once getting a square meal." Mr. Cobb's theory is that children should not be required to memorize any facts for daily recitation which do not seem to adult people worthy of carrying in their mind from year to year. The large fund of easily available fact-knowledge in encyclopedias, dictionaries, pocket atlases, year books, etc., have brought the intelligent man of today to a point where he carries as little useless material as possible in his mind.

If I succeed in this report in getting across only this one idea I shall feel that one of the largest purposes of the year is accomplished in that memorization of useless materials in the schools is not only harmful but absolutely pernicious and should be absolutely prohibited.

### TEACHERS SALARY SCHEDULE

The following schedule is now in force for the teachers now teaching in Bangor:

Years	Grades	Kindergartens		HIGH SCHOOL				
		Dir.	Ass't	Tenure	Women Ass't	Women Heads	Men Ass't	Men Heads
						1600		2100
				5th	1400		1700	
				4th	1350		1650	
5th	1200	1200	For	3d	1300		1600	
4th	1125	1125	Tenure	2nd	1250		1550	
3d	1050	1050	1050	1st	1200		1500	
2nd	975		975					
1st	900		900					



It would be a great advantage to the high school to extend the maximum for women assistants to \$1500 to justify our own schedule with those of other places of like standing. As long as this diversity exists Bangor High School will be a Training School for schools in other places, and we cannot hope to retain our best teachers.

### INTELLIGENCE TESTS

Everyone is born into this world endowed with a definite potential and latent mental capacity. Environment has a great deal to do with the way that mentality develops. It has been thought for many years that if we could place some instrument on a person's head to determine the mental possibilities within the individual and at the same time foretell what he should do to be of greatest usefulness we would have solved the riddle of the ages.

By means of Intelligence Tests and vocational guidance it is now possible to approximate the place in life that should be occupied by each of us, thereby increasing human efficiency. It used to be thought that if a child were precocious we must be careful of him or he would over-do and would have to suffer for it. The latest knowledge of educational procedure has been able to prove that this is not so. The happiest mind is the one that is working up to its full capacity. It is now the duty of educators to determine individual capacities and place pupils where the work is an even challenge to their mental capacities. The following tests have been given in the Bangor Schools during the Spring Term and the results are thought to be of enough interest and educational value to warrant the following presentation.

(See table No. 1)

The above Class Groups are purposely arranged, one directly beneath the other. Children of an eighth grade normally are 13 or 14 years old, while those of the seventh grade are normally 12 or 13 years old. It will be noticed that the distance between the centers of one of these two groups of children as indicated by the heavy lines are about in the same proportion as the proportion of magnitude of the figures for their ages. The concrete

figures for individual pupils are on file at the Supt. of School's Office, and can be seen there. Teachers wishing the original sets of papers may have them for the asking.

The above figures do not tell the whole story as they tell us nothing about the ages of the pupils making the scores. Following are the same figures distributed to show this data:

(See table No. 2)

It will be noticed that the pupil who got a score between 100 and 110 was only about 10 years old which shows him to be a precocious child of great mental ability. The child getting the highest score between 180 and 189 is over 13 years of age but his mentality is probably not much superior to the 10 year old pupil. In fact a table has been worked out which shows what is normal for each pupil. Figuring the ten year pupil as 10 years 11 months it would be normal for him to get a score of 66 points, so he exceeds his normal score by at least 44 points. The other child considered as 13 years 11 months, his normal score would be 100 points so he exceeds what is normal for him by at least 80 points. The accompanying charts will show with a little study how pupils are located as to their mental ability and then referred to their proper grade rating. These charts have never been published before and show a valuable correlation between grade standing and intelligence ratings.

### SCHOOL BUDGET

Each year as the School Budget is figured it is quite universally thought, if not promoted, that the city is paying out a very large sum of money for education which comes wholly and directly out of the tax levy thereby effecting the tax-rate. No department in the city pays so large an income into the city treasury as the School Department, except possibly the Water Department which is an entirely separate and self-governing Board.

When the city agrees to a School Budget amounting to \$300,000 it means that the net direct cost of education to the city is about \$225,000 which is for the education of about 4800 pupils.



The income to the city from this department during the last year has been as follows:

ESTIMATED REVENUE FROM STATE AND OTHER SOURCES

Federal Vocational Education . . . . .	\$365.00
Vocational Education . . . . .	600.00
Free High School . . . . .	500.00
Industrial Education . . . . .	3,100.00
School and Mill Fund . . . . .	16,500.00
Common School Fund . . . . .	39,500.00
Union Superintendency . . . . .	800.00
Library Fuel, 3-4 year . . . . .	2,009.58
Tuition . . . . .	9,900.00
	<hr/>
Total . . . . .	\$73,274.58

High School tuition will be increased at the beginning of the fall term from \$75.00 per year to \$90.00 per year.

Education has taken form very fast within the past ten years so that it is no longer being run along traditional lines. What was once thought to be sufficient no longer obtains in places where communities desire to avail themselves of the best there is in education for the children of any city. It has been my experience that the citizens of Bangor who have children in the schools and many other public spirited citizens desire the best for their schools.

The President of the Massachusetts senate made some significant remarks, regarding the proposed salary of the State Commissioner of Education, in the course of a discussion on the passage of the bill involved. He said in part that education should be regarded as an investment by the state and not as an expense. "The investment," he said, "which the state makes in education is designed to produce a higher and better type of citizen. Education is the privilege and duty of the state and not a burden. Economy in state expenditures is proper and should be practiced at this time, but a saving at the expense of the child

means a poorer and less competent citizen in the next generation, and this is the sort of economy that the state can not afford."

The present organization of the city charter having to do with the administration of its schools is entirely wrong in some respects and the citizens of Bangor can never hope to have their schools as they desire to have them unless they go before the legislature asking for a change in the City Charter in the following respects:

- I. One member of the School Board elected at large each year for a term of five years. These, being elected by the citizens, would be directly responsible to the people and not to the City Government. Too often the School Board has to think in terms of what the City Government would think if certain things were done, no matter how beneficial they might be to the schools.
- II. Fiscal independence for the School Department is highly desirable. People of good business judgment being on the School Board would give good business management of the school affairs, and their responsibility to the people would make them responsible heads to a greater extent.
- III. Authority granted the School Board not only to elect a Superintendent of Schools but also with authority to fix his salary. This is the greatest single handicap than confronts the School Board, its action being impeded by other considerations. The School Board has no more important duty to perform than to elect its chief executive, the superintendent.

Until these three things are accomplished it will be impossible to do for Education in Bangor what should be done and what is perfectly reasonable to do.

I am deeply appreciative of whatever support may have been accorded me in my work here. I am anxious that many of the constructive things that have been started during the past two years may be carried out. I think the School Board, teaching force and citizens of Bangor, have good cause to be pleased at

the election of Mr. Albert B. Garcelon who is to succeed me. He is a man of culture and training and brings to his work a knowledge gathered from a wide field of experience and I have every confidence that he will be eminently successful.

True C. Morrill,  
Supt. of Schools.

June 28, 1922.

When making up the Annual School Budget this year and realizing that Bangor was confronted with some School Building and pupil housing problems which must be seriously considered very soon, I called the attention of Mayor Day to the conditions confronting us. The Mayor, in his characteristically broad-minded and business-like way saw the wisdom of starting on the problems in the right way with a view to assisting in the constructive educational needs of the city by inaugurating a program lasting through twenty years. He at once saw the wisdom of employing an educational expert to line up a school building program. It was decided to employ a man who had done more of this kind of work than almost anyone else in the United States. Dr. Engelhardt has lately helped to make a complete school building survey in Baltimore and Atlanta. Surely no more important piece of constructive work could have been undertaken than the proper outlining of the school building needs of the city which follows.

## The Report of Dr. N. L. Engelhardt, on School Building Needs of Bangor

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*Board of Education,  
Bangor, Maine.*

Gentlemen:

I am herewith submitting my report of the School Building Needs of the City of Bangor, in accordance with your request. This report has been made after a most detailed study of the school buildings of the City, and after spending two days in analyzing the statistics gathered by Superintendent Morrill, and after making a careful survey of the population trend and housing development of the entire city.

It is only in recent years that Boards of Education have endeavored to analyze school building development in terms of future needs as well as present conditions. The criticism which has been leveled at public school systems in the past has in part been due to the failure of Boards of Education to properly develop the school plants in which the educational organizations are to be advanced. The technique employed by other public service organizations, such as telephone companies, street transportation companies, and the like, has within the last few years been utilized by school authorities for the development of their school plants. Such technique involves the consideration of the future needs of the city to the same degree that the present needs are used as a means for determining what should be done. Telephone companies do not lay their cables nor build their telephone exchanges except as they think in terms of the burden which the apparatus must bear ten, fifteen, or twenty years hence. Thus School Boards are planning school buildings to the

end that the greatest economy may be achieved, and are building their school plants to take care of the future child population of the city as well as the present child population. In no other phase of municipal engineering is it so important to plan to meet future needs as in the educational field.

In the development of a school building program certain fundamental principles are recognized as essential. One of these is the principle of financial economy. It has been proven by statistics gathered from many cities that small school buildings are not financially economical to maintain or operate, nor is it financially economical to administer education in small school plants.

The principle of financial economy requires that a Board of Education plan school buildings which are sufficiently large to provide for at least 1000 children.

The second principle of school building planning is that of educational economy. By educational economy is meant the saving of the time of school children so that every day, week, and year spent in school adds to the child's ability to contribute to the welfare of the community, state and nation. The principle of educational economy requires that a program of classification, grading and promotion be so developed that non-promotions are infrequent, and that children are so grouped with others of their own ability that the teaching of these children is a uniform problem rather than the very burdensome task that it becomes when children of unlike abilities are all grouped together in one grade. In the elementary school building it is possible to provide three or four classes of each grade so that the children of differing abilities may be separated into their own groups. The greatest retardation which occurs in school is connected with the failure to give the brightest children in school an opportunity to advance according to their abilities. In small school buildings the brightest children become lazy and indifferent to school work largely because they are only required to do the same amount of work as the average child. The proper classification program provides not only for the brightest children, but provides equally well for the average child, and even for those children who find it difficult to do average school work.



The third principle of school building planning is the one which has been observed in the development of the Fairmount School. This school has been so planned that additions may be made at any time. No school building in Bangor to be erected in the future, should be planned as a complete whole. It frequently becomes financially desirable to add to an existing school plant rather than to construct an entirely new building. Elementary school buildings of twenty-four, twenty-eight, and thirty-two rooms are being built in many cities, even in cities of the latitude of Bangor. Fairmount School, although planned as a twenty-room building may be slightly altered by the addition of new rooms so as to conform to this principle. In the planning of other school buildings in the city, the principle of development of large plants, where additions are always possible, has been entirely ignored, such as in the case of Longfellow school.

The fourth principle in the development of school planning is that of the acceptance of a definite educational organization. It is not possible within the limitations of this report to discuss completely the merits of the traditional 8-4 educational organization as contrasted with the K-6-3-3-organization. The old 8-4 organization has long been supplanted in progressive communities by the K-6-3-3 plan. Under this latter plan, all children are provided with kindergarten training; they are given elementary training of six years in the elementary school, and are sent into the Junior High Schools or Industrial schools. In these latter schools, the educational program is so developed as to provide for a complete differentiation of subject matter according to the needs of the individual children. The children are given an opportunity to come in contact with some elementary shop work, or work in household arts, and are given a chance to either prepare themselves for three years Senior High School or to prepare themselves at least partially for some definite vocational end. The Junior High School plan, as the K-6-3-3 plan is sometimes called, makes for a better transition from the elementary schools into the high schools by gradually introducing the children into the advanced program of the Senior High School. The Junior High School program is not merely the traditional Grammar School program with a different name,

nor is it departmentalization of the class room instruction in the upper grades. It is based primarily on the assumption that achievement in reading, writing, spelling, and the like, is not the only aim to be considered in a school. Such other aims as the development of the physical body of a child, the preparation for participation in citizenship, the education for high grade home making, the definite training for purposeful life vocation and the desirability of giving boys and girls the training which will permit of a better use of their leisure time, are other aims of the K-6-3-3 program which are recognized as paramount.

It is my recommendation that the School Board recognize these four principles as essential before any more money is spent in the development of the local school plant. It is my recommendation that the School Board also adopt the K-6-3-3 plan of educational organization, and indicate to the community that all future school buildings will be constructed to conform to the needs of this kind of an organization.

Some of the most successful Junior High Schools in the United States are those of Erie, Pa.; Rochester, N. Y.; Detroit, Mich.; Lincoln, Neb.; Grand Rapids, Mich; and Montclair, N. J. The work which is being done in such institutions ought to be considered the model after which Bangor may pattern.

#### PRESENT SCHOOL CONDITIONS IN BANGOR

Because of the recency of construction of the high school building, the statements regarding the present conditions will concern the elementary schools largely. Under Table No. 1 is shown the distribution of the elementary schools according to the number of class rooms in each. The rural one-room schools have not been included in this distribution. There are sixteen elementary schools in this Table, eleven of which have four rooms or less. No adequate educational program can be advanced in school buildings of four rooms or less. Not only are these buildings small but eight of them are made of wood, and are in no sense desirable assets of a progressive community. The School Board must assure parents that children, when sent to school, are protected against fire dangers. The protection of



the body of the child is as much a function of the school as is training in the subject matter of the class room. In some cases the buildings are provided with fire escapes, but such protection of school buildings has not been found adequate when fire breaks out in a wooden structure.

TABLE NO. 1  
BANGOR'S ELEMENTARY SCHOOLS  
DISTRIBUTED ACCORDING TO NUMBER  
OF CLASSROOMS IN EACH

No. of Classrooms	No. of Buildings
1	1
2	4
3	..
4	6
5	..
6	2
7	..
8	1
9	..
10	..
11	..
12	..
13	..
14	1
15	..
16	..
17	..
18	..
19	..
20	1

#### HANNIBAL HAMLIN SCHOOL CONSIDERED MOST DANGEROUS

Not only are the wooden school structures of the city dangerous fire traps, but there is greater fire danger lurking in the Hannibal Hamlin school than in any other building of the city. The children who are housed on the third floor of this building should be provided for at the earliest possible moment in other buildings. The wooden stairways of this structure do not provide a

safe exit for children. The fire escapes can only be reached through windows which children must raise before they can step out on the fire escapes, and the treads on the escapes are so narrow and the inclines so steep that it is very questionable whether the children of this building could make their exit rapidly without disaster occurring to many of them. Not only is the character of the fire escape to be condemned but the windows abutting on the fire escape are not equipped with wire glasses so that the fire escape itself may become a delusion and a snare.

It is my recommendation that immediate action be taken in changing the conditions in the Hannibal Hamlin school so as to provide for the safety of all children in this building. Probably the change which would bring about the best results would be the erection of fire-proof, smoke-proof stair wells in place of the present wooden stairways. This would not necessitate any alterations of class rooms.

It is also recommended that the School Board adopt the policy of eliminating all basement class rooms in the elementary schools at the earliest moment. The basement class rooms in the Hannibal Hamlin school in no sense safeguard the life of school children. Damp basement class rooms with the very inadequate lighting which one finds in these rooms may tend to offset all the educational advantages which children get from going to school. It is amazing to discover that parents of children in this section of the city are contented with the housing of their children under conditions which impair the health and risk the body of the child to the same degree as one discovers in Hannibal Hamlin school.

The only elementary school building in the city which may be considered modern is the Fairmount school. It is recommended for all new-school buildings that no rooms be planned in the basement, as has been done for the Fairmount building. Modern school buildings are being built today on the ground level, and no rooms are being sunk into the ground. This method of planning means that every cent which goes into a school building provides the most adequate dividends in terms of educational utilization of the plant.

A map has been made of the city showing the location of all schools. If one were to think of Bangor's beginning at this time an educational plan for the city, it would be necessary to consider first a desirable travel distance for children under the climatic conditions that prevail here. A standard has been fixed for travel distance for elementary school children, including those of the kindergarten. The maximum travel distance for such children is said to be one-half mile from home to school. This means that a few children will be located this distance, while most of the children will travel a distance which is much less than this. For the Junior High School the travel distance is approximately a mile, which means that many children will travel a distance which will vary from a few rods to a mile. This travel distance will be utilized as a basis for school planning. School centers will be determined upon in such a way that there would be as little overlapping as possible. On map No. 1 has been shown the districts contributing to the school enrollment of the various schools. With each school building as a center and with a radius of three-eighths of a mile, circles were drawn as indicated on this map. Where a school plan has been properly developed there would be very little overlapping among these circles, and the multiplicity of small buildings in the city has caused a tremendous amount of overlapping, as shown on this map. In the development of a future school plan it should be the purpose of the School Board to reduce to a minimum the overlapping among elementary school districts.

### PLAY FACILITIES FOR CHILDREN

Bangor has neglected its opportunities for providing adequate play places for children. The majority of cities of this size in the United States have developed a play program, which has expressed itself in terms of city playgrounds as well as adequate play grounds about school buildings. Not only are the majority of Bangor's elementary schools exceedingly small, but in most cases, there are practically no play spaces provided whatsoever. A city like Bangor can easily afford to allow the children about 100 square feet of playground space per child, which some of the

larger and more congested cities in the United States have accepted as their standard. In all new planning in such cities as Baltimore, Md., Atlanta, Ga., Winston-Salem, N. C., and Greensboro, N. C., elementary school sites are being selected which provide children with adequate play space. In planning for new school buildings in the city of Bangor, it is recommended that no site be selected for an elementary school where there are less than six acres of land, and that no site be selected for a Junior High school where there are less than ten acres of land available. In the study of local conditions, it is clear to me that such a recommendation can be readily carried out.

In planning school buildings, it is also recommended that no gymnasium be placed hereafter in a basement as has been done in the case of the high school. A gymnasium is a place where boys and girls should engage in playing wholesome American games. A gymnasium should be flooded with fresh air and a maximum of sun light. It is best lighted on two sides at least and placed on the ground level. School building standards have been developed in the United States which would prevent many of the errors of construction, which are found in buildings where the essential educational provisions have not been given full consideration. The Strayer-Engelhardt bulletin on city school buildings, published by the Bureau of Publications, Teachers College, Columbia University, includes many of the standards according to which gymnasiums and other rooms in school buildings should be planned.

### OVERCROWDED CONDITION

The overcrowded condition existing in both the elementary and high schools require that the school Board proceed immediately in the erection of a new school building to relieve the unfortunate congestion which prevails.

In the high school there are enrolled at present 1320 children, while the building was planned originally for only 900 children. Conditions here necessitate building changes which will provide necessary relief.

The average number of children per teacher in the elementary schools is 35.3. There are twenty elementary school classes where enrollment exceeds forty pupils. No teacher should be required to assume the responsibility for teaching more than forty boys and girls. When one considers that these large classes are being housed in rooms where the lighting is very inadequate, where the sanitary conditions are very unsatisfactory, and where almost no provision is made for the safety of the child, the need for immediate betterment becomes all the more apparent. In the last ten years the enrollment in the schools of Bangor has increased by about 1000 pupils. It is to be expected that future growth in school enrollment will at least reach this amount, and will in all probability proceed at a much more rapid pace.

#### A SCHOOL BUILDING PROGRAM IS A CONTINUING PROGRAM

In planning for new school buildings at this time, the citizens of Bangor should realize that a school building program, like a program of any other growing corporation, must be a continuing program. School building needs must be investigated and school buildings must be planned in units so that the additional units may be added whenever the necessity therefor arises. The recommendation is therefore made that no school buildings be erected except as they are considered units of a finally complete and sufficiently large school plan.

#### THE HOUSING OF KINDERGARTEN CHILDREN

In the planning of any new elementary schools, it should be the policy of the School Board to include kindergarten accommodations in such buildings as well as accommodations for grades one to six inclusive. All modern elementary school buildings are so planned as to provide for both kindergarten and grade children. This should be the policy of the School Board except as it becomes desirable to utilize some of the existing school buildings as kindergarten units.

## THE JUNIOR HIGH SCHOOL NEEDS FOR THE CITY OF BANGOR

At present, there are approximately 1100 children of Junior High School grades who are attending school in the city. There is no adequate site in the center of the city for a large Junior High School. The Junior High school population, about 1932, or ten years from now, will fall somewhere between 1600 and 2000. One of the remarkable things about the school program in Bangor is that very few children drop out of school at the eighth grade period. The Age-Grade Table for the public schools shown in Table No. 2 indicates that there is only a slight falling off between the 8th grade and the 10th grade of schools. The very large enrollment of 498 in the 9th grade, or the first year in high school, is due to the fact that the elementary school system was reduced last year from nine grades to eight grades. This is a very commendable step. The City of Bangor should look forward to the development of two Junior high schools so that in 1930 to 1935 all of the future Junior high school enrollment may be cared for in these two buildings.

### RECOMMENDATIONS FOR NEW BUILDINGS

The present building needs can be best satisfied by the erection of two new school buildings, one Junior high school building, and one elementary school building.

In planning the Junior high school program the first building should be erected in that section of the city in which the largest number of Junior high school children live. This is the western section of the city as shown on map No. 2, where all of the Junior high schools enrollment of the city is distributed in terms of dots on the map. It is fortunate that there is an adequate school site in this section for Junior High School purposes. This site is directly opposite the Thirteenth Street school and lies particularly favorably for school purposes. A large school site at this point can not only be used as a Junior high school center, but the site may be so developed that the Senior high school boys may use it for their football and baseball games. It is strange to discover that the City of Bangor has not even yet provided play space for the athletic teams of the high school.

### NEW ELEMENTARY SCHOOL

The most pressing need for new elementary school development is on the east side of the city. The over-crowding existing in Center Street, Longfellow, Palm St., Elm St., and Forest Ave. schools is such as to require immediate relief. The condition of the Forest Ave. and Center St. buildings means that there will be no loss to the city if these buildings are abandoned for school purposes within a short time.

It is recommended that the new building be erected on a site east of Broadway at a point directly east of the junction of French Street and Broadway. There is a large open field at this point, which can be most satisfactorily developed into a school center, which will give to the east side of the city as fine a school development as now exists on Thirteenth Street. This school should provide relief for Center Street, Longfellow, Forest Avenue, and Hillside schools and should also indirectly relieve the schools in the southeastern section of the city.

### THE FUTURE BUILDING PROGRAM

As the new Junior high school is built on Thirteenth Street, adequate relief is provided the Senior High School. With such relief provided here, a beginning on another Junior High School should be made in connection with the Senior High School. In other words, the Senior High School should temporarily be continued a four year high school to care for the 9th year high school children on the east side of the city until the enrollment in the present Senior High School again reaches a point of overcrowding. This overcrowding may be expected to develop within the next five to eight years. As soon as the high school enrollment has again reached this point, it is necessary to begin the planning of a second Junior High School on the East side of the city. This Junior High School may well be erected in the same vicinity as the new elementary school, which is recommended at the Broadway-French Street site. The land in this locality is relatively high and can be developed for play purposes at a very small expense. This site is far more adequate for school purposes than the site directly north of Broadway Park, which is a possible

school site. This latter site is not large enough for school purposes. It does not present a wide enough frontage, it can only be extended by acquiring much valuable housing, and in addition the land to the rear is filled in land, which has been used as a dump for rubbish and all discarded materials. Such filled-in-land has caused, in the past, disastrous results to the health of the children, and is never desirable for school purposes. And such land also raises building costs, since it very frequently does not provide sound foundation for the support of heavy school structure without going to excessive expenditure.

#### LONGFELLOW SCHOOL

Longfellow School should be retained as a kindergarten center. This recommendation is made because of the rather satisfactory nature of the structure itself. Alterations must be made by removing partitions in order to form adequate sized rooms for kindergarten purposes.

#### OTHER FUTURE ELEMENTARY SCHOOL CENTERS

As the Junior High School program is advanced on the West side of the city, the Hannibal Hamlin school will be relieved of the 7th and 8th grades. Because of its location and size, it is desirable to consider this school as an elementary school center in this particular section of the city. As it becomes an elementary school center, it provides relief for the 3rd St., Pond St., and First St. buildings. In this way relief is also provided in a secondary degree to the Larkin St. and Crosbyville schools.

The Abraham Lincoln school should be considered the ultimate elementary school center in the southeastern part of the city. In years to come, as the Junior High School is developed on this side of the city, the 7th and 8th grade children will leave the Abraham Lincoln School, and make it available as a kindergarten and elementary school center.

#### FUTURE ADDITIONS TO THE THIRTEENTH STREET SCHOOL

It is again a matter of satisfaction that the Thirteenth Street school has been planned with the possibility of additions. This



makes the cost of adding to this plant relatively slight as compared with the cost of erecting new buildings, since the heating plant, stairways and toilets, and other facilities, are all provided in the original building.

In the additions which are made to this school should be included provision for kindergarten children. Already there are eighty children of this locality of kindergarten age, who can be cared for in such additions. The proposed plans for additions to this building can be slightly altered in order to meet the needs for a kindergarten department.

#### COTTAGE STREET—BOWER STREET SCHOOL CONDITIONS

These two buildings in no sense meet the standards for proper school buildings. The sites are inadequate, the buildings are of wood, and lighting standards are not met. The general conditions are such as to make it essential to consider a new school building in this section as part of the future school building program. The classes in these buildings are now very large and the population in this section is growing. It is advisable that the School Board plan in advance for this particular section by securing an adequate school site in this locality on which a school building may be constructed in the future. The acquisition of a site at this time would safeguard the community so as to assure a proper school site when the overcrowded conditions in this section necessitates additional room.

#### CENTRAL-FULLER SCHOOL SITUATION

Overcrowding in Central school at Bull's Eye Bridge and the very inadequate condition of Fuller school necessitate early relief at these points. The conditions in Fuller school have been unsatisfactory over a long period of years. The most advantageous solution of this problem for these children would be to bring them in to the Fairmount school as the Senior high school children are being brought in from that same section. In Central School are enrolled about twelve children, who are of Junior high school age. It would be very unfair to deny these children

the advantage of a Junior high school training, and it would be impossible to give them this training in Central school. Provision should be made so that these Junior high school children may be brought into the city and allowed to participate in all the activities of the new Junior high school program. Until the Junior high school program is advanced, these 6th, 7th, and 8th grade children of Central school should be placed in other schools of the city. Transportation facilities for many of these children living in the Valley Avenue section are such as to make it no hardship for them to come into the city schools. The Charleston car line makes it possible to get to the city readily. Without doubt the children of the lower grades would profit more from going to school in one of the graded city schools rather than in the one-room Central school. The whole problem of transporting these children on the Charleston car line should be discussed with the parents of this section. In many localities provision is made whereby such children are brought into the city by a matron and kept under the charge of this matron during the lunch hour, and taken home after school. If such provision can be made, the children of Central school will be provided far more adequately with educational facilities than they can be through the erection of another new small school at this point.

As soon as the elementary building in Ward 4 is erected, it also will care more adequately for the children of the present Central and Fuller school groups of that section.

### THE PLANNING OF NEW SCHOOL BUILDINGS

It is recommended that every precaution be taken by the School Board when new school buildings are being planned in order to insure the greatest economy.

In the present high school, corridors are sixteen feet wide. In many high school buildings corridors of ten and twelve feet are found to be entirely satisfactory for the administration of the school and the circulation of the pupils. Such corridors do not detract from the appearance of the building, and result in the

saving of much money in the original construction, and a large part of fuel costs over a period of years.

Standards have been set up for the lighting of school rooms, for the construction of stairways, for the size and construction of gymnasiums, for the size and construction of office and library rooms, and the like. Such standards covering all details of school buildings should be utilized by the school Board in the planning of all new buildings. Only as such standards are utilized will economy result.

### NEWBURY STREET SCHOOL

I have carefully examined the Newbury Street school and its site, and recommend that the School Board develop at this point one of the playgrounds for boys and girls for this section of the city. The building is of little value and cannot be made a modern school building except at excessive cost. In fact, to make this school building a modern building would cost as much as the erection of a new building. The site, in no sense is a proper site for one of Bangor's future elementary schools. The building should be raised, the site should be leveled off, and playground apparatus provided.

Bangor has to date made a very small investment in its school plants for the education of its elementary children. It has made almost no investment in play sites.

### CONCLUSION

The program which has been advanced, is in no sense an extravagant program. It endeavors to give to Bangor boys and girls the kind of educational facilities which are being provided in modern cities. The ultimate program, as here laid down, may not be reached for fifteen years. The immediate program is very pressing, and the two new buildings that have been recommended should be started at once. If the School Board proceeds with the aim of education in mind, which have been discussed in this report, it is reasonable to expect that the citi-

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CITY OF BANGOR

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zens of Bangor will, in a short time to come, congratulate themselves that action has been taken on the basis of a definite program and a definite educational organization.

Very truly yours,

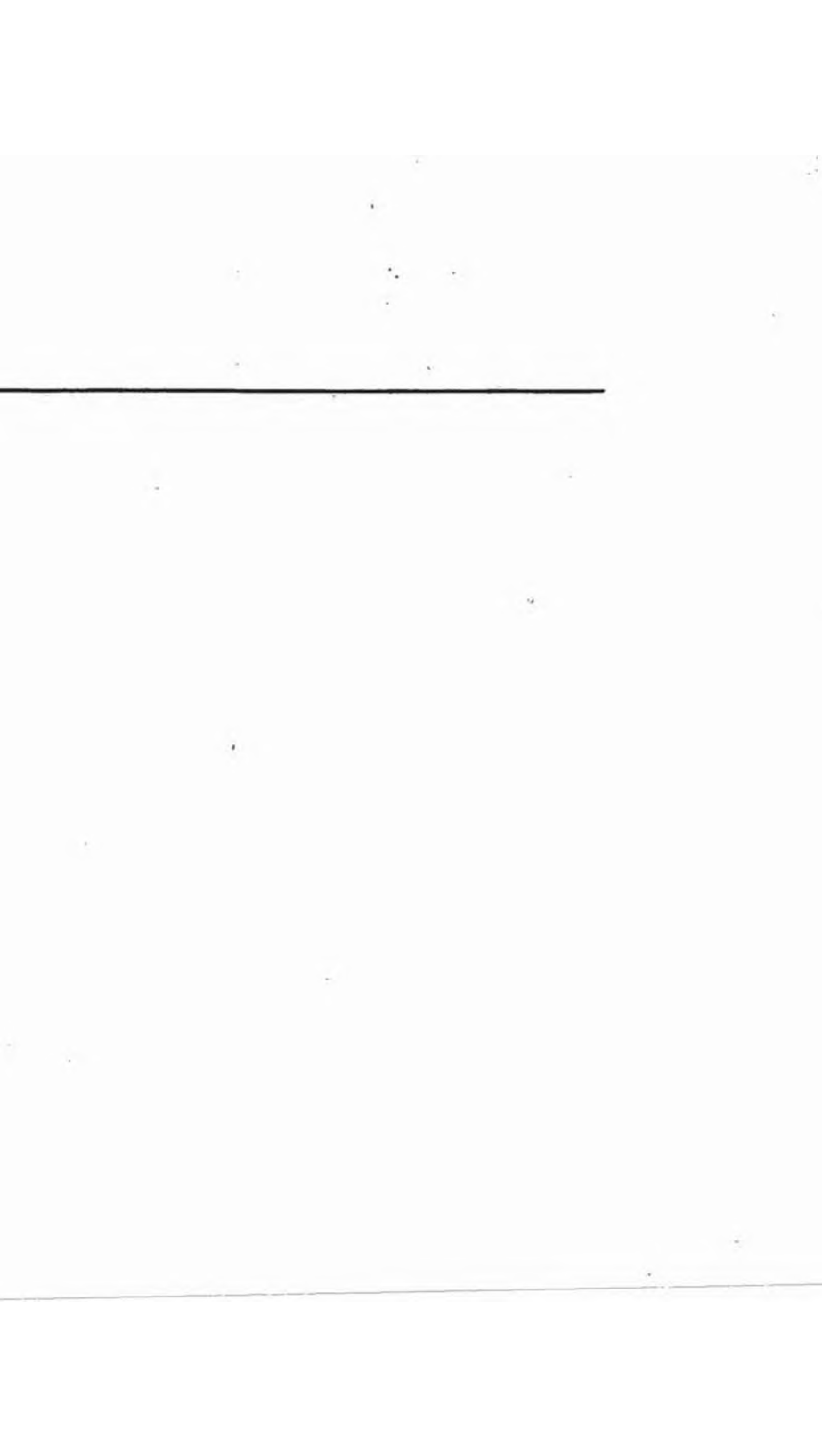
(Signed) N. L. ENGELHARDT.

April, 1922.

## STATISTICS OF ATTENDANCE 1921-1922

Faculty	Subject	Address	Enrolled	No. of Boys	No. of Girls	Average Attendance		
1	Clarence W. Proctor . . . . .	Principal . . . . .	279 Pine Street	1330	612	718	1215	Year
2	Harold A. M. Trickey . . . . .	Sub-Master . . . . .	65 Grant Street	1314	606	708	1245	F
3	Mary C. Robinson . . . . .	Dean . . . . .	44 Thatcher Street	1275	586	689	1202	W
4	Mary B. Hutchings . . . . .	English . . . . .	304 No. Main Street, Brewer	1241	566	675	1171	S
5	Harvey D. Miller . . . . .	English . . . . .	46 Kenduskeag Ave.	Terms: F, Fall; W, Winter; S, Spring				
6	M. Frances McCann . . . . .	English . . . . .	135 Cedar Street					
7	Alma L. Davis . . . . .	English . . . . .	179 Birch Street					
8	Annie M. Ervine . . . . .	English . . . . .	12 Ohio Street					
9	Ruth B. Chalmers . . . . .	English . . . . .	396 Center Street					
10	Leota Jacobson . . . . .	English . . . . .	21 Forest Ave.					
11	Lena G. Perkins . . . . .	English . . . . .	141 Ohio Street					
12	Ruth E. Brown . . . . .	English . . . . .	3 Holyoke Street, Brewer					
13	Marjorie W. Hornung . . . . .	English . . . . .	97 Ohio Street					
14	Irene Cousins . . . . .	History . . . . .	82 N. Main Street, Brewer					
15	Cecil D. MacIlroy . . . . .	History . . . . .	9 Prospect Street, Brewer					
16	Francis J. Goggin . . . . .	History . . . . .	33 Park Street					
17	Bertha C. Files . . . . .	History . . . . .	101 Maple Street					
18	Vivian L. Skinner . . . . .	Math . . . . .	116 State Street					
19	Melvena V. Parker . . . . .	Math . . . . .	13 Hudson Street					
20	Elsie M. Junkins . . . . .	Math . . . . .	157 Essex Street					
21	W. Edward Trowell . . . . .	Math . . . . .	49 East Summer Street					

	Faculty	Subject	Address
22	Loys A. Wiles.....	Math.....	21 Forest Ave.
23	Marion DuBourdieu.....	Math.....	154 Essex Street
24	Stanley W. Spratt.....	Math.....	5 Broadway
25	Mary F. Mahaney.....	Com'l Arith.....	75 Summer Street
26	Mary L. Webster.....	Latin.....	174 Main Street
27	Anna McSkimmon.....	Latin.....	94 Third Street
28	Ella L. Pennell.....	Latin.....	120 Court Street
29	Mme. Pauline Beaupre.....	French.....	396 Hammond Street
30	Mabel A. Humphrey.....	French.....	50 Leighton Street
31	Madeline F. Robinson.....	French.....	463 Main Street
32	Estelle I. Beaupre.....	French.....	396 Hammond Street
33	Charlotte Jennison.....	French.....	210 Center Street
34	Isabelle F. Frawley.....	Spanish.....	84 Ohio Street
35	Leyland Whipple.....	Chemistry.....	80A Center Street
36	George N. Varney.....	Physics.....	7 Fourth Street Place
37	Emily M. Roseland.....	Science.....	21 Forest Ave.
38	Willard H. Eaton.....	Commercial.....	123 Center Street
39	Eliot R. Duncan.....	Bookkeeping.....	38 East Street
40	Peter W. Mitchell.....	Com'l. Geog. & Law	French Street
41	Valentine E. Kenney.....	Typewriting.....	132 Park Street
42	Grace L. Thomas.....	Stenography.....	314 Hammond Street
43	Hope Buxton.....	Elocution.....	55 State St., Brewer



Faculty	Subject
44 Adelbert W. Sprague. . . . .	Music. . . . .
45 Alden B. Hayes. . . . .	Man'l. Tr. . . . .
46 C. E. Holyoke. . . . .	Shopwork. . . . .
47 Otis H. Ginn. . . . .	Shopwork. . . . .
48 Ethel E. Harrigan. . . . .	Dom. Science. . . . .
49 Theresa Pretto. . . . .	Dom. Science. . . . .
50 Ruth Crosby. . . . .	Dom. Science. . . . .
51 Pauline Aiken. . . . .	Librarian. . . . .
52 Casper W. Cole, Lt.-Col. Cav. D. C. L. . . . .	R. O. T. C. . . . .
53 Luther J. Beane, Sergt. DEML. . . . .	R. O. T. C. . . . .
54 John Cummings. . . . .	R. O. T. C. . . . .



Address

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- .....217 Union Street
- .....6 Blackstone Street
- .....270 Wilson Street, Brewer
- .....76 Washington Street, Brewer
- .....319 State Street
- .....51 Blackstone Street
- .....223 State Street
- .....Y. W. C. A.
  
- .....12 Adams Street
  
- .....150 Center Street
- .....

Grade

Address

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**Abraham Lincoln School:**

Herbert L. Poole, Principal	5 Broadway
Minnie E. McCarthy, VIII	17 Birch St.
Leonora M. Brown, VIII	196 Elm St.
Lilian C. McCarthy, V.III	17 Birch St.
Katherine Quigley, VIII	101 Parkview Ave.
Nellie L. Bradbury, VII	19 Broadway
Agnes R. Kelly, VII	236 State St., Brewer
Helen J. Mountaine, VII	21 Adams St
Agnes M. Mullaney, VII	41 Birch St.
Sadie R. Blaisdell, VI	277 Forest Ave.
Kathryn T. Preble, VI	15 Elm St.
Myra H. Andrews, VI	124 Palm St.
Alice M. Collins, V	40 East Summer St.
Nellie P. Blaisdell, V	277 Forest Ave.
Augusta Mountaine, V	21 Adams St.
M. Winifred Mehann, IV	89 Ohio St.
Sarah A. Ryder, IV	213 Grove St
Pauline F. Pretto, IV	51 Blackstone St.
Mabel M. Drinkwater, III	135 Elm St.
Grace E. Gallagher, II	11 Birch St.
Lucie W. Preble, I	15 Elm St.

Total Enrollment	No. of Boys	No. of Girls	Average Attendance
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.....	38	20	18	34
.....	37	17	20	33
.....	37	17	20	33
.....	35	15	20	32
.....	43	22	21	36
.....	42	20	22	37
.....	39	21	18	36
.....	41	22	19	36
.....	50	22	28	38
.....	43	22	21	40
.....	52	23	29	43
.....	43	22	21	39
.....	49	23	26	43
.....	47	28	19	39
.....	48	24	24	40
.....	47	26	21	40
.....	44	20	24	38
.....	49	25	24	40
.....	39	21	18	38
.....	31	16	15	22

Grade

Address

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**Hannibal Hamlin School:**

Charles P. Allen, Principal.....	34 Smith St.....
Annie L. Roney, VIII.....	76 Summer St.....
Sara Field, VIII.....	12 Autumn St.....
Kate M. Allamby, VIII.....	239 Ohio St.....
Florence F. Weymouth, VIII.....	10 Morse's Court.....
Mae O. Straw, VIII.....	Union, St., R. F. D.....
Gertrude E. Fogg, VIII.....	277 Hammond St.....
Ann E. Neville, VII.....	109 Elm St.....
Lilla E. Curtis, VII.....	156 Chamberlain St., Brewer.....
Flora E. Whitley, VII.....	Cram Road, R. F. D. 8.....
Mary E. Lynch, VII.....	195 Maple St.....
Mary T. Gibbons, VII.....	66 Third St.....
Esther M. Curran, VI.....	112 Birch St.....
Annie F. Moore, VI.....	64 Court St.....
Mary M. Vose, VI.....	75 Maple St.....

**Open Air School:**

Nettie M. Howard.....	543½ No. Main St., Brewer.....
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Total Enrollment	No. of Boys	No. of Girls	Average Attendance
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.....			
..... 32	15	17	31
..... 32	14	18	29
..... 34	16	18	29
..... 31	15	16	28
..... 33	17	16	28
..... 31	15	16	27
..... 38	19	19	35
..... 39	18	21	34
..... 40	17	23	34
..... 35	18	17	32
..... 39	20	19	34
..... 44	19	25	36
..... 42	18	24	38
..... 42	19	23	38

..... 30	17	13	20
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Grade

Address

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**Fairmount School:**

Frances P. Atwater, Principal, VI . . . . . 48 Allen St. . . . .  
Sarah M. Malone, V . . . . . 50 Sidney St. . . . .  
Marian L. Rogan, IV . . . . . 26 Highland Lane. . . . .  
Grace S. Stover, III . . . . . 19 Boynton St. . . . .  
Abbie S. Gould, II . . . . . 8 Webster Ave. . . . .  
Rachel E. Pennington, I . . . . . 8 Webster Ave. . . . .

**Valentine School:**

Bessie McCoy, Principal, V . . . . . 28 Maple St. . . . .  
Mabel F. Dennett, IV . . . . . 20 Fourth St. . . . .  
Elizabeth Nickerson, III . . . . . 170 Third St. . . . .  
Anna A. Jones, II . . . . . 120 Center St. . . . .  
Mary C. Gallagher, I . . . . . 83 First St. . . . .

**Larkin Street School:**

Mary A. Walsh, Principal, V . . . . . 31 Sidney St. . . . .  
Helen C. Hickson, IV . . . . . 26 Brown St. . . . .  
Bernice S. Welch, III . . . . . 31 March St. . . . .  
Frances K. Donovan, II . . . . . 22 Barker St. . . . .  
B. Teresa Curran, I . . . . . 32 Carroll St. . . . .

	Total Enrollment	No. of Boys	No. of Girls	Average Attendance
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.....	43	17	26	36
.....	46	22	24	34
.....	41	19	22	36
.....	35	14	21	29
.....	37	17	20	32
.....	43	19	24	36

.....	47	26	21	41
.....	50	23	27	37
.....	42	20	22	33
.....	43	21	22	36
.....	33	19	14	23

.....	39	19	20	34
.....	42	28	14	36
.....	36	19	17	31
.....	34	21	13	26
.....	43	25	18	37

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Grade

Address

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**Pond Street School:**

Marion J. Mullen, Principal, V.....431 Hammond St.....  
Jessie Lord, IV.....13 Pond St.....  
Elizabeth Parker, II and III.....77 Kenduskeag Ave...  
Nellie G. Curley, I.....38 Pier St.....

**Bower Street School:**

Maude H. Morse, Principal, IV.....117 Highland St.....  
Elizabeth A. McCaw, II and III.....5 Holyoke St., Brewer.  
A. Blanche Calligan, I.....22 Sixteenth St.....

**Elm Street School:**

Harriet L. Mosher, Principal, III.....242 Essex St.....  
Margaret M. Gallagher, II.....11 Birch St.....  
Mildred F. Cousins, I.....332 Essex St.....

**Longfellow School:**

Augusta P. Kirstein, Principal, IV.....375 Center St.....  
Carrie H. Rowe, III.....500 French St.....  
Blanche E. Foster, II.....15 Charles St.....  
Lois P. Hutchins, I.....221 Elm St.....



	Total Enrollment	No. of Boys	No. of Girls	Average Attendance
.....	49	19	30	40
.....	36	17	19	29
.....	47	16	31	39
.....	24	9	15	20
.....	47	26	21	37
.....	45	25	20	38
.....	35	16	19	28
.....	48	28	20	38
.....	34	19	15	26
.....	41	22	19	30
.....	41	13	28	32
.....	28	15	13	25
.....	23	10	13	18
.....	35	17	18	34

Grade	Address
<b>Center Street School:</b>	
Mary E. Sullivan, Principal, VI . . . . .	22 Garland St. . . . .
Ruby M. Gould, V . . . . .	67 Curve St. . . . .
Hope Robinson, III. . . . .	291 Wilson St., Brewer . . . . .
Ellen F. Cross, II. . . . .	96 Garland St. . . . .
Elizabeth A. Norton, I. . . . .	55 Madison St. . . . .
<b>State Street School:</b>	
Mary R. Spratt, Principal, III. . . . .	112 Grove St. . . . .
Eunice R. Coney, II. . . . .	60 Fern St. . . . .
Helen L. Donnelly, I . . . . .	16 Hudson St. . . . .
<b>Pearl Street School:</b>	
Louise A. O'Connor, I. . . . .	30 Otis St. . . . .
<b>Forest Avenue School:</b>	
C. Bernice Paulin, II and III. . . . .	442 Essex St. . . . .
Frances R. Cowan, I. . . . .	21 Harlow St., Brewer . . . . .
<b>Cottage Street School:</b>	
Alzada C. Withee, II and III. . . . .	71 Holland St. . . . .
Nellie I. Gale, I. . . . .	40 Jefferson St. . . . .

	Total Enrollment	No. of Boys	No. of Girls	Average Attendance
.....	38	20	18	37
.....	45	26	19	37
.....	32	16	16	24
.....	29	15	14	22
.....	33	16	17	23
.....	42	25	17	33
.....	40	20	20	31
.....	50	22	28	34
.....	32	12	20	23
.....	25	10	15	21
.....	31	16	15	23
.....	38	16	22	34
.....	25	14	11	22

Grade

Address

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**Third Street School:**

Mary Clayton, I. . . . . 6 Coombs St. . . . .

**Crosbyville School:**

Bertha M. Cushman, I and II. . . . . 29 Holland St. . . . .

**SUBURBAN SCHOOLS:**

**Mount Hope:**

Priscilla N. Felker . . . . . 5 Forest Avenue, Orono.

**Stillwater Avenue:**

Irene C. Getchell . . . . . Kittredge Road. . . . .

**Bagley School:**

Anna F. Kilfoil. . . . . 63 Merrimac St. . . . .

**Hillside School:**

Alma M. Berry . . . . . 26 Otis St. . . . .

Total Enrollment	No. of Boys	No. of Girls	Average Attendance
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..... 35	15	20	26
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..... 27	16	11	21
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..... 26	15	11	22
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..... 19	9	10	15
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..... 20	13	7	16
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..... 10	7	3	9
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Grade

Address

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**Sherburne School:**

Muriel Cleland..... Pushaw Road.....  
Katherine R. McCann..... 61 Second St.....

**Central School:**

Nettie M. Herrick..... East Bangor.....  
Lillian Fogg..... Ohio R. F. D. 4.....

**North Bangor:**

Emma Nickels..... Ohio R. F. D. 4.....  
Margaret E. Fogg..... Ohio R. F. D. 4.....

**Avenue School:**

Angela T. Thayer..... Union, R. F. D. 3.....  
Pearl Roundy..... Union, R. F. D. 3.....

**Odlin School:**

Blanche I. Mallar..... Odlin Road, R. F. D. 2.....

**Tyler School:**

Clara L. MacEachern..... Hammond, R. F. D. 2.....

	Total Enrollment	No. of Boys	No. of Girls	Average Attendance
.....	36	19	17	27
.....	..	..	..	..
.....	43	18	25	30
.....	..	..	..	..
.....	30	17	13	28
.....	..	..	..	..
.....	28	14	14	22
.....	..	..	..	..
.....	14	7	7	11
.....	19	11	8	18

Grade

Address

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**Fuller School:**

Winifred Batchelder . . . . . 88 Fuller Road . . . . .

**KINDERGARTENS:**

Nellie E. Brown, Supervisor . . . . . 72 James . . . . .

**Larkin Street School:**

Gertrude F. Lord, Director . . . . . 123 Center St. . . . .

Frances E. Longfellow, Ass't. . . . . 48 Webster Ave. . . . .

**Pearl Street School:**

Ethlyn M. Steward, Director . . . . . 390 Hammond St. . . . .

Corinne L. Furbush, Ass't. . . . . 14 Seventh St. . . . .

**State Street School:**

Marguerite H. Belden, Director . . . . . 116 Essex St. . . . .

Madeline F. Winter, Ass't. . . . . 149 Webster Ave. . . . .

**Valentine School:**

Grace E. Glass, Director . . . . . 72 James St. . . . .

Elsie M. Lyon, Ass't. . . . . 735 Main St. . . . .



Total Enrollment	No. of Boys	No. of Girls	Average Attendance
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.....	10	6	4	6
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.....	**	**	**	**
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.....	43	22	21	35
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.....	**	**	**	**
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.....	45	19	23	30
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.....	**	**	**	**
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.....	43	22	21	31
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.....	**	**	**	**
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.....	47	24	23	36
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.....	**	**	**	**
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Grade

Address

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**Elm Street:**

Eleanor A. Herlihy, Director..... 100 Forest Ave.....  
Anna G. Canlett, Ass't..... 312 Essex St.....

**Longfellow School:**

Adelaide Mansur, Director..... 15 Somerset St.....  
Mary A. Reilly, Ass't..... 84 Cedar St.....

**Bower Street:**

Alice M. Allen, Director..... 34 Smith St.....  
Mary E. Mooney, Ass't..... 87 Second St.....

**Fairmount:**

Virginia D. Marston, Director..... 25 Fifth St.....  
Anna L. Ferguson, Ass't..... 443 Hammond St.....

Total Enrollment	No. of Boys	No. of Girls	Average Attendance
------------------	-------------	--------------	--------------------

---

.....	46	20	26	31
.....	**	**	**	**
.....	57	32	25	41
.....	**	**	**	**
.....	36	18	18	29
.....	**	**	**	**
.....	70	37	33	50
.....	**	**	**	**

**SPECIAL SUPERVISORS:**

**Music:**

Harriet Howard . . . . . 290 Main St.

**Writing:**

Mary Alexander . . . . . 28 Congress St.

**Drawing:**

Mabel D. Henneman . . . . . 199 Main St.

**SUBSTITUTE TEACHERS:**

Edna M. Mills . . . . . 74 Washington St., Brewer, Maine  
Edna G. McLaughlin, . . . . . 239 Union St., Bangor, Maine  
Jennie L. Menges . . . . . 196 State St., Bangor, Maine  
Harriett Sampson . . . . . 20 Coombs St., Bangor, Maine  
Dorothy W. Brown . . . . . 64 Division St., Bangor, Maine  
Florence W. Mayberry . . . . . 24 Forest Ave., Bangor, Maine  
Eleanor Brown . . . . . 87 Dutton St., Bangor, Maine  
Edith Gustin . . . . . 253 Union St., Bangor, Maine

**MEDICAL INSPECTORS**

Dr. H. L. Robinson, Chairman  
Dr. Blanche M. Mansfield, Secretary  
Dr. Harry Osgood  
Dr. A. E. Small

Dr. E. L. Herlihy  
Dr. George B. Caulfield  
Dr. Albert W. Fellows  
Dr. Herbert Scribner

Regular Meeting of Medical Inspectors, the second Tuesday of each month at 7.30 P. M.

**SCHOOL NURSES**

Katherine B. Smith, Head Nurse

Theresa Anderson

**NIGHT SCHOOL, AMERICANIZATION CLASS, STATE STREET SCHOOL**

Eunice R. Coney

Marguerite H. Belden

Helen L. Donnelly

## Report of the Principal of the High School

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*To True C. Morrill, Superintendent of Schools,*

Dear Sir:

I herewith submit the annual report of the work of the Bangor High School for the school year 1921-1922. The registration for the year has been 1330, an increase of 148 over the year 1920-1921. During the year we have had 612 boys and 718 girls. The number of tuition pupils has been 185.

The graduating class numbered 234—98 boys and 136 girls. We have already made out certificates for the following pupils for entrance to colleges or other schools:

### UNIVERSITY OF MAINE

Franklin G. Baker	Christine McLaughlin
Walter R. Bell	Robert C. McLeod
Paul E. Blethen	Warren Maddocks
Frank T. Clark	Sylvia C. Mann
Josephine C. Cleary	Franck Morrison
Ada Cohen	Harold E. Noddin
Faye Everett	Kenneth O'Connell
M. Madeline Gillen	Samuel Raichlen
Pearl R. Graffam	Willis R. Rollins
Ethel Greeley	Vernon H. Somers
Joseph Harris	Malcolm M. Street
Robert J. Hutchins	Esther Thompson
Wilson G. James	E. Stewart Walsh
Clyde P. Jones	Gerald S. Wheeler
Maurice Kane	Frances M. Willetts
Irving B. Kelley	Embert R. Worcester

### BOWDOIN

Carleton C. Bean	Richard P. Denaco
Charles P. Davis	Hazen E. Nutter

## HARVARD

George Barakat  
Howard Corning, Jr.

LeRoy A. Campbell

## BOSTON UNIVERSITY

Simear F. Sawyer

## ANDOVER

Edward M. Short

## COLBY

Virginia E. Baldwin

Clifford E. Stevenson

## MISS WHEELOCK'S SCHOOL

Dorothy E. Black

## MOUNT HOLYOKE

Elizabeth P. Clough

## DEFIANCE COLLEGE

Marion V. Hurlburt

## SARGENT SCHOOL

Emily O. Miller

## VASSAR

E. Eugenia Patten

## SIMMONS

Margaret V. Sullivan

## LASELL SEMINARY

Dorothy Brown

M. Marguerite Murray

## LELAND POWERS SCHOOL

Darthea V. Rideout

## CASTINE NORMAL SCHOOL

Ella M. Stanley

Marion E. Spurling

## FARMINGTON NORMAL SCHOOL

Luvie Grant  
Evelyn Ryder

Ruth E. Smith  
Arleen Weiler

## NEW ENGLAND CONSERVATORY MUSIC

Blanche Bowden

## EASTMAN SCHOOL OF MUSIC

Edward Prescott

## BATES

Hazel Lindsay, (1919)

## SALEM NORMAL SCHOOL

Harriett M. Frost (1921)

Under the crowded conditions of the school during the past year, the work of teaching and administration has been very difficult. Taking into consideration the size of the class of 1925, and the crowding of the rooms, the work has been as successful as could be expected.

It is necessary again to call attention to the excessive number of absences and tardiness. It cannot be possible that parents realize the handicap placed upon pupils by even a single day of absence or tardiness, otherwise, they would make the extra effort necessary to have their children present on time every day. The only exceptions to this rule should be sickness of the pupil, sickness in the family or impassable streets. The number of instances of tardiness has been 2755 or 2 for each pupil. 252 have not been absent.

The following tables show the demoralizing effects of absence, tardiness and dismissal upon the work of pupils in the high school: the attendance record of the *Upper Quarter* of the First Year Class for the first quarter was as follows:

Number of Pupils	Number of times absent, tardy or dismissed.
94	0
15	1
6	2
14	more than 2



## SECOND YEAR CLASS

Number of Pupils	Number of times absent, tardy or dismissed
47	0
11	1
4	2
7	more than 2

## JUNIOR CLASS

32	0
14	1
8	2
11	more than 2

## SENIOR CLASS

36	0
6	1
10	2
4	more than 2

On the other hand the *LOWER QUARTER* was made up as follows:

## FIRST YEAR CLASS

42	0
19	1
12	2
56	more than 2

## SECOND YEAR CLASS

19	0
10	1
9	2
31	more than 2

## JUNIOR CLASS

22	0
6	1
7	2
31	more than 2

## SENIOR CLASS

Number of Pupils	Number of times absent, tardy or dismissed
12	0
11	1
4	2
29	more than 2

For the school as a whole 283 pupils who had not been absent, tardy or dismissed more than twice were found in the upper quarter of their classes, while only 36 who had been absent, tardy or dismissed more than twice were included in that group. 173 who had not been absent, tardy or dismissed more than twice were in the lower quarter of their classes and 147 who had been absent, tardy or dismissed more than twice were in this group.

From the above it will readily be seen that the pupil who is absent, tardy or dismissed more than twice has a very slight chance of being among the better scholars in his class.

The registration to date has been 1410 pupils for next year, with the probability of 1450 before school begins next September. The early registration of pupils assures the proper placing of pupils in class and a prompt start of the work at the opening of school. At the time of registering a report of the previous year's work should be submitted.

## OTIS TESTS

The Otis Test—Higher Examination Form A was given to all pupils in the Senior, Junior and Second Year classes on March 14.

Assuming that the age of the Seniors is between 18 and 19 years, which is high, our average for that class—45, is 5 above the norm set for the country, in the same way the Junior class average was 2.7 above the norm, the Second Year Class .4 above the norm.

On June 6 the Otis Group Intelligence Scale, Advanced Examination, Form A was given to the First Year Class. No work has been done on these tests but they will be studied during the vacation and used in classifying the pupils for the coming year.

## MUSIC

The work of the Band has progressed during the year as usual. At the beginning of this year the beginners were brought together as a separate band which later in the year was absorbed into the regular organization.

The work of the Orchestra was not started at the beginning of the year and when organized was not under expert leadership. Later Mr. Sprague volunteered his services, not being willing to see the Orchestra, built up by years of hard work, entirely disorganized. Since the middle of the year, Mr. Sprague has been paid for his services.

The chorus work has been confined to the Juniors, in preparation for the Junior Exhibition and the Seniors in preparation for graduation. We trust that the work for next year will go forward without interruption.

## DEBATING AND DRAMATICS

The three Debating clubs have done excellent work throughout the year, the two boys' clubs under the leadership of Mr. Miller and the girls' club under the direction of Dean Mary C. Robinson. While the school was not represented in the finals at Bates, the instructors have felt that the work done was painstaking and conscientious and that the real value lies not in winning but in preparing to win.

The Dramatic Club under the direction of Miss Buxton has had an unusually successful year. The series of plays have been well selected, well staged and well acted. The club has been encouraged by fine audiences that have been very generous in their praise of the work of the club. One play "The Man Without a Country" was given two evenings with a well filled auditorium each time. The Senior Play was written by Henry S. Dowst of the class and a little playlet given earlier in the year was the work of Eugene K. Rowe also of the Senior class.

I consider the work of organizations such as the Debating and Dramatic Clubs, the Band and Orchestra to be most valuable to the boys and girls. We should have more clubs such as these,

the difficulty being in finding teachers who are willing and capable of doing such work.

The year has been a very busy one for both teachers and pupils. I wish to thank the teachers for the painstaking work done under the crowded condition of the school, also to thank the boys and girls for the ways in which they have helped during the year.

To you, Mr. Superintendent, and to the Members of the School Board, I wish to extend thanks for the many courtesies shown, favors received and the spirit of cooperation exhibited.

Sincerely yours,

Clarence W. Proctor.

Bangor, Maine, June 27, 1922.

## Report of the Supervisor of Kindergartens

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Bangor, Maine, June 17, 1922.

*Mr. True C. Morrill, Superintendent of Schools:*

Dear Sir:—

In submitting to you a report of the Bangor kindergartens for 1921-22 I am presenting my final report and the last to be submitted by anyone filling simply the office of supervisor of kindergartens.

With the opening of the schools in September the kindergartens and primary grades will be under the direction of Miss Mabel M. Osgood, a woman of splendid training and of wide and varied kindergarten experience. To have created such an office is, in my opinion, a forward looking act and reflects credit upon you and the school board. I congratulate you and them. When the organization is perfected, which of course requires time, the little children of Bangor will pass into a first grade where the fundamental ideas and ideals of the kindergarten prevail, where they will still learn by doing things and be happy while they learn. I hope that this motive of joy in doing will become the motive all along the way. It should be found all through school life.

There has never been a year when so much informal work has been done in the kindergartens as a whole, and never a year when according to the verdict of the teachers, children more capable of directing and controlling themselves have been promoted. Through handling scissors and pencils, for example, in their own way and at times chosen by themselves the children have acquired better control than formerly of materials necessary in later school work, or so it seems to us.

Informal work makes large demands upon the teacher. Children are free in the midst of objects designed to supply a great variety of attraction. Twenty of them working in different parts of the room, standing or sitting, may be doing twenty different things at the same time. It requires more than physical alertness to supervise such work, to know that work begun is not dropped before completed, that it is done as well as the child is capable of doing, that he is not doing the same thing over and over day after day or simply carrying it to the point where difficulty confronts him only to pick up something else, that he is not infringing upon his neighbor's rights, etc.

Under your direction the manual training department has made a set of building blocks for each kindergarten large enough to satisfy a child's desire to build a house of sufficient size and durability for actual use. To the joy of the boys and some of the girls you have placed a small carpenter's bench in every kindergarten room. The benches are equipped with too few tools which omission time will remedy I hope. Boxes obtained at nearby grocery stores have been knocked down to secure material for sawing and nailing, and Mr. Holyoke of the manual training department has again and again taken valuable time to pick up odds and ends for the children, even preparing circular pieces for wheels and cubical pieces to which strips were fastened for seats of various styles. The corner in some kindergarten rooms has been turned into a veritable carpenter's shop where the sound of hammer and saw ceased only when the children were called away for other work. Results have been crude but valuable, especially where the teacher has through the work discovered an interesting child, formerly hard to reach.

The physical activity provided in former years through games and experiences of various kinds has been abundantly augmented during the last six months by slides and teeter boards, a form of activity which the children do not grow weary of and which provides muscular development never before possible. Invaluable social training also results. Any intelligent observer who watches for fifteen minutes cannot fail to realize it. Through the efforts of the teachers, mothers and school nurses the money necessary to equip six of the kindergartens with slides

has been raised, the remaining two having previously secured theirs. It is a commendatory piece of cooperative work.

Your unusual interest in and contribution to our work has been most encouraging and I take this opportunity to publicly thank you for the many ways in which you have expressed a faith in childhood. "It would be well for all men meditatively to regard the kindergarten in action," as you have.

I deeply appreciate the willingness of the teachers during the past year to try out the newer methods of work. In the face of such obstacles as large numbers and restricted space they willingly set themselves aside and put forth an honest effort to determine what is best for the children. It is particularly fitting at this time to acknowledge the debt I owe my fellow kindergarten teachers for their part in work that extends over a much longer period than the year just closing. I ask them to accept my sincere and grateful thanks.

At the close of twenty-six years of continuous service in Bangor I believe in the kindergarten more sincerely and intelligently than I did two score and six years ago. In looking back I see many defects in the work; many, many mistakes made but in so far as the development of the child's individuality and initiative has been provided for it has been right. I hope that soon greater evidence of it may be found in the field of Bangor's elementary education—that this ideal of the kindergarten may be carried into the primary grades.

Respectfully submitted,

Nellie E. Brown.



## Report of Director of Mechanic Arts

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*Mr. True C. Morrill, Superintendent of Schools:*

Dear Sir:

I herewith submit my annual report as Director of the Mechanic Arts Department of the Bangor Schools.

The work in the grades has shown great improvement. Much constructive work has been done and the classes have been given a very thorough training in the fundamentals of woodworking. Much stress has been laid on having the work correct before it being passed, thus impressing the boy with the importance of paying attention to detail. I feel that the results of the year's work with these classes will be in evidence when the present 8th grade enters the high school next fall. Its full effect, however, will not be felt before a year from next September.

Our high school shops have proceeded on the program laid down two years ago. All the work has been done on a commercial basis. In our wood shop all the time has been spent making supplies for the School Department or on repair work for the schools. The only exception to this was the repairing of the furniture belonging in the Ward 6 polling rooms.

This type of work should be continued as at present. The value to the boy is beyond estimation. It creates a real "shop feeling" which cannot be obtained by other methods. In addition to this it saves the city from 50% to 75% on the cost of such supplies as tables, cabinets, book-cases, and repairs. The largest part of the cost of such supplies is the labor and the cost of selling and profits of the dealers. This is entirely eliminated under our present system thereby giving the city supplies at the actual cost of the material. I believe that this course should be followed in the future.



I would recommend the following changes and additions to our equipment.

The wood-shop should have a new saw bench. The one now in use is out of date and inefficient. It causes a waste of 75% of the boy's time while working at it owing to the length of time necessary to change and set the saws.

A sanding machine should be purchased. At the present time all our heavy work has to be sanded by hand or sent to Morse and Company for sanding. The former process is slow and inefficient and the latter is slow owing to the fact that Morse and Company cannot give precedence to our work.

It would be well to consider the purchase of a pattern-makers' lathe. Such a machine would be an addition to our shop.

The machine shop should have a planer and a shaper. These two machines are almost indispensable to good instruction in machine shop practice.

I would suggest that a course in printing be inserted in our high school curriculum. I believe that such a course would be of much value from an educational standpoint.

In closing I wish to say that the present year has been the best in the history of the department. The work has been superior in quantity and quality to that done in any previous year. I wish to take this opportunity to thank my assistants for their very hearty cooperation in making the work a success. They have shown a wonderful spirit and have always been willing to receive and give suggestions.

I wish to thank you, Mr. Morrill, for your readiness at all times to be of service to us. Please extend to the members of the school committee my appreciation of their kindness and courtesies. To my fellow teachers I extend my thanks for their helpfulness.

Respectfully submitted,

Alden B. Hayes,

Director of Mechanic Arts.

Bangor, Maine, May 15, 1922.

## Report of the Dean of Bangor High School

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### *To the Superintendent of Schools:*

It has been my purpose this year as in previous years, to look out for the welfare of the students, particularly the girls, of Bangor High School. With that purpose in view, dancing being an important activity of so many students, Mrs. Odiorne was invited and kindly consented to come and give a talk, first to the teachers, afterward to the girls, a class at a time, upon correct positions in dancing. Mrs. Odiorne not only explained clearly and pleasantly the difference between decorous and indecorous dancing, but with the assistance of a few students and teachers, illustrated what she had said. Thereafter there was no confusion in the minds of teachers as to what might or might not be permitted and no excuse for students to say they didn't know they were taking improper positions. An effort will be made the coming year to have the boys share in such instruction.

Every dance under the auspices of the school has been chaperoned by at least two teachers and often four or five or more have been present in official capacity. The spirit of the students in regard to such chaperonage has been, as always, most pleasant: Bangor young people seem to welcome the companionship and assistance of the teachers on social occasions.

A beginning has been made in the line of vocational guidance; more than forty girls who expressed their intention of becoming nurses were addressed by Mrs. Boutelle, superintendent of nurses in the E. M. G. Hospital, and these girls afterward visited the hospital, upon her invitation, returning with renewed enthusiasm for the calling. Another group of girls was addressed by Miss Nellie Brown upon kindergartening. Miss Brown not only presented the duties and advantages of the kindergarten

teacher most attractively, but sent for catalogs and circulars from all the principal training schools and put them at the disposal of the girls. Similar instruction and information has been given with regard to the courses in the various Normal schools of the state by teachers who have come to Bangor for the purpose.

Standards of simplicity in dress and courtesy in manners have been held up. To all critics of the way young people dress I would say, "Come over to high school and point out to us any impropriety that you find."

During their presence in the school building our students are very carefully looked after; only the parents can guard against undesirable conduct elsewhere. Quite a large number of students are boarding in the city without the presence of their parents. While these students as a whole are earnest workers and careful of their conduct, there are among them, occasionally, those whose liberty of action is so great that, for the sake of giving them training in the wise employment of their time, I often wish there were a dormitory in connection with the high school.

My thanks are due to the superintendent of schools, to all school officials and to my colleagues for their constant and most cordial cooperation.

Respectfully submitted,

Mary C. Robinson,

Dean of Bangor High School.

## Report of Household Arts Department

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Bangor, Me., June 24, 1922.

*Mr. True C. Morrill, Superintendent of Schools, Bangor, Maine:*

Dear Sir:—

I herewith submit the report of the Household Arts department for the school year, 1921-1922.

There were almost twice as many classes in cooking as in the previous year, there being eleven, eighth grades, and a double first year high school class, making a total of 277 pupils receiving instruction in cooking and 401 pupils receiving instruction in sewing, 113 from the high school.

In October, Miss Genevieve Fisher, a member of the Federal Board of Education, in Washington, visited the department and placed the first two years of high school work, as meeting the federal requirements of the Smith-Hughes bill. Time outside of school being devoted to Home Project work, in order to meet the necessary requirements.

A course to the Juniors and Seniors this year, which proved to be most interesting and useful was interior decorating. Braided and knit rugs, runners, table covers, curtains, pillows, etc., were made by the girls for use in their homes. These articles together with the sewing from the high school and grades were on exhibition, at the high school, open to the public May 19. Fifty-eight dresses were made by the girls, and many other useful articles of clothing.

Since there is some doubt as to whether there shall be a daily school lunch next year, and the lunch department, which has always been self-supporting, has a considerable sum of money on hand, I recommend that the money be turned over to the House-

hold Arts department, to purchase additional equipment or what ever may be necessary for that department.

In January, the Bangor Railway and Electric Co. very generously gave the department a splendid Westinghouse Electric Range, which is very much appreciated, and the girls have obtained excellent results from this very modern addition.

A feature of the work which was much enjoyed this year, was two girls, from the cooking classes going daily to the open air school to assist in the preparation and serving of the lunch for the little children. Beside the practical benefit from such work, they were taught the value of serving others less fortunate than themselves.

I wish to thank my assistants, Miss Crosby and Miss Pretto, for the helpfulness and cooperation, and I congratulate them on the splendid work I feel they have accomplished.

I also wish to express my sincere appreciation to Mr. Proctor and to you Mr. Morrill for the help so willingly given at all times.

Respectfully submitted,

Ethel E. Harrigan.

## Report of the Director of School Nursing Work

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Bangor, Maine, June, 1922.

*Mr. True C. Morrill, Superintendent of Schools:*

Dear Sir:—

I herewith submit my annual report as Director of the School Nursing work.

The first year of the Nurses' work in the schools, as a direct part of the educational policy of Bangor has come to a close. For two years previous the funds for the work had been provided by the local Red Cross.

In September Mrs. Theresa Anderson was appointed assistant nurse. She came to us with a splendid record, a graduate of the Newton Hospital, a year of special work at Columbia University, for two years educational director in the Illinois Training School for Nurses, and two years of school nursing work in Wellesley.

The early months were busy with the measuring and weighing of all the children. Special care being given to the records as from our under weight lists were to be selected the children for the Fresh Air School. Several volunteer workers have assisted us most efficiently with the weighing which has been accomplished four times during the year. Also we have been fortunate enough to have some Health stories in our lower grades which have interested and helped the children very much.

The Fresh Air School was opened the middle of November. This meant for us a consultation with many parents in order to obtain the attendance of the children who seemed to us to most need the wonderful advantages offered by this school. Semi-weekly visits have been made through the entire year for the



weighing, inspection, talks and consultations with Miss Howard. The doctor's examinations have also been attended each time. Results even greater than we hoped for have been shown in the thirty children that have been enrolled during the year. Five have been discharged. No one can better appreciate than the nurses what it means to these children to be under the supervision of Miss Howard, having at the same time the great advantages offered by the school.

I think of one child, whom I have watched gradually going down hill for the last two years, absent more than half the time on account of illness caused by his diseased tonsils. The parents were unwilling to have the tonsils which had badly affected the heart removed. After frequent visits and accompanying the mother and child for consultations with several specialists, they consented to the operation provided the child would be allowed to attend the Fresh Air School. The operation was performed. In the twelve weeks of attendance he had gained ten pounds, and will return next year to make up the remaining amount he was underweight.

The Suburban schools were visited twice during the year. We were prevented going oftener by lack of transportation. There is much need of our work in these schools, the teachers being most eager for it as well as the pupils.

The campaign, if it may be so called, for weighing and measuring children is a general health movement, which has spread not only over this country but over all the world. In the great majority of cases children who are underweight are so not because of inheritance but because in the homes the simple laws of health are constantly being broken. We weigh and measure the children not to collect statistics but to interest the children themselves in health and the lessons that go with it. A child's weight is the best simple method we have of estimating the state of his nutrition.

I have been anxious for a long time in connection with the under-nourished child and in fact for the good of all the children, to have a mid-morning milk lunch. This has been accomplished the past year in the first six grades, the kindergartens having had it before. Through the help of Dr. McNeil, our Health Officer,

the milk supply has been carefully watched and we hope to have even better service another year. Over one thousand children have already benefitted by it.

For two years by help from the dentists and the hospital we have held a dental clinic for the children who were unable to meet the expense of a dentist. During this time 636 cases were treated. The dentists found it extremely difficult taking the long trip to the hospital each Saturday and carrying their own equipment. They said they were still willing to give their time if we could find a place for the clinic more centrally located. The Quipus Club were most generously ready to equip it. Too much can not be said in praise of the way the Club has managed this work.

Through the interest of the Mayor and various public citizens, a room was given us in City Hall, it was repainted, new lights, running water and everything that could be wished for was done to make an ideal room. It was not until April 15th that we were able to begin our clinic, but even in this short time wonders have been accomplished. Twenty-one dentists promised to give their time, ten having already served this year. A wonderful new electric engine has been added to our equipment through the generosity and interest of one of the dentists. A summary of the work accomplished is given below.

List of dentists promising to give time for the dental clinic:—

Dr. F. E. Maxfield	Dr. H. J. McGinn
Dr. Carl Maxfield	Dr. F. E. Whitcomb
Dr. R. S. Higgins	Dr. F. K. Sawyer
Dr. H. C. McMahan	Dr. F. H. Gordon
Dr. George Phillips	Dr. C. H. Stanhope
Dr. J. F. Woodbury	Dr. June B. Robinson
Dr. E. E. Jordan	Dr. Montana Farnham
Dr. J. E. Hazelton	Dr. C. H. King
Dr. H. S. Frost	Dr. C. E. Sawyer
Dr. H. E. Mongovan	Dr. Frank H. Mead

Dr. E. F. Briggs

Number of cases . . . . .	169
Number of extractions . . . . .	180
Number of fillings . . . . .	73
Number of prophylactic treatments . . . . .	18



The home visits are an important part of our work. Through them we are able to help parents in the hospital arrangements for the children, also to persuade them to consult their doctors about many doubtful cases. Since the last report 112 children have had their tonsils removed and many are planning to have their operations this summer.

Careful and thorough work has been done in connection with the children who have had defective eye-sight. No part of our work can be more important. Statistics tell us that ten million school children in the United States have defective eye-sight, nearly one-half the total number. It is well known in many places where the importance of this is not realized, the children are retarded in their educational progress, and often appear stupid and unable to learn.

Through the generous help of the Teachers' Club and Miss Nellie E. Brown we were able to have Cho-Cho, the famous Health clown, give an entertainment for the children. The City Hall was twice filled with three thousand happy children, whom we found carried home with them the desired Health lessons. With the money that was left after Cho-Cho's expenses were paid, we have been able to help many children to pay for glasses which they could not otherwise have had, also the Kindergartens were aided in buying some health apparatus.

In April we were fortunate to be able to arrange with Miss Bertha Wood, chief of the Food Clinic in Boston, to give us a most interesting and instructive lecture. This was made possible through the Parent-Teachers Associations and several of the Women's Clubs. This lecture was not only helpful to the mother of the under-nourished child, but for every parent who wished to know the best way of keeping their children fit.

Some most helpful and interesting meetings have been attended in connection with the social service work in this city. Miss Anna M. Mattoon, general secretary of the Family Welfare Society, has been instrumental in organizing the Family Decisions Committee meetings which have been most helpful to our work and all concerned.

We have again to thank the many Women's Clubs, in particular the Teachers' Club and the Quipus Club for their co-operation and help in our work.

We owe much to our Health Officer, Dr. McNeil for his help and interest in our work. We scarcely know what we would do without the co-operation and aid that comes to us from the Public Health Clinic in charge of Dr. O'Brien and Miss Hopkins. The same co-operation is given us by Miss Edith M. Bicknell, the District Nurse of our city.

Many have been the specialists and school doctors who have helped us with our children for all of which both Mrs. Anderson and I are most grateful.

The coming year means new opportunities. Clara Barton, one of our truly great nurses, says "We are all tumbling over opportunities for being brave and doing good at every step we take. Life is just made up of such opportunities. Not nearly all the sick and crippled are on the battlefield, nor is all danger there either."

Many things have been left undone, but I feel in looking back to the time when the Health work was first started in the schools that the children have learned and are practicing many of the Health lessons and that numberless defects have been corrected. Below is given a partial summary of the work.

### PARTIAL SUMMARY OF WORK

112 children operated on for tonsils and adenoids. (For many of these cases we made all arrangements with doctor, parent and hospital.)

158 Children have had glasses fitted.

774 Home visits.

995 Miscellaneous visits.

1109 Talks to children in class.

3559 Children examined.

3559 Children weighed and measured.

290 Children referred to physician.

76 Accompanied to physician.

164 Referred to Clinics.

Excluded for:

Ringworm . . . . . 10

Pediculosis . . . . . 154

Scabies. ....	27
Impetigo. ....	14
Suspicious symptoms. ....	19
Contagious diseases. ....	63
	<hr/>
	287

We wish that everyone knew and believed the words of the great English statesman Disraeli "Public Health is the foundation upon which rests the happiness of the people and the welfare of the state."

Respectfully submitted,

Katherine B. Smith.

Head Nurse.

## Report of Fresh Air School

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Bangor, Maine, June 2, 1922.

*Mr. True C. Morrill, Superintendent of Schools:*

Dear Sir:—

I herewith submit a report of the Fresh Air School.

The school opened Nov. 7, with 24 pupils enrolled. These pupils were selected from the III, IV and V grades by the school nurses and ranged from 8% to 25% below normal weight. 50% of them were 8 lbs. underweight while others were from 11 to 19 lbs. Any child who is from 7% to 10% below normal weight should receive prompt attention.

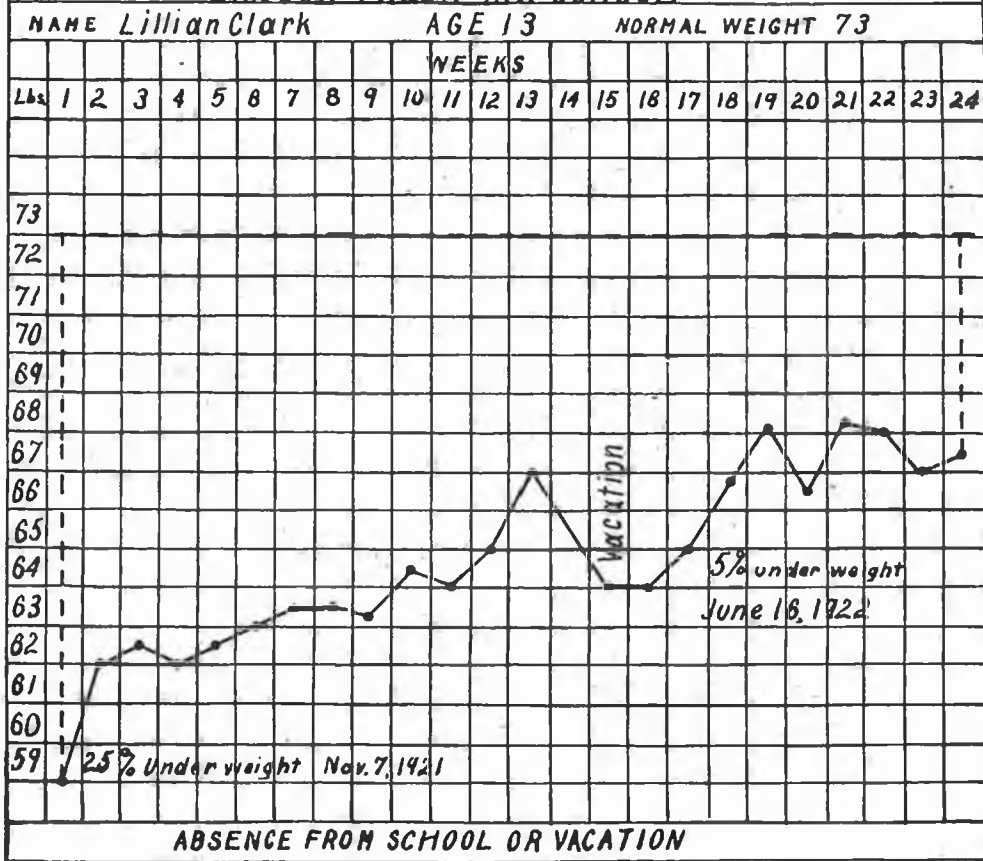
On entering the pupils had a thorough examination of throat, ears, heart and lungs by Dr. O'Brien. He is the physician for the school and watches the improvement of each pupil with keen interest, and always responds promptly and cheerfully when asked to call and give any pupil a special examination.

Seven have been fitted to glasses. Four have had tonsils and adenoids removed. All have made calls on the dentist whenever advised to do so, therefore their teeth are 100% at present.

At the beginning of the spring term four pupils were discharged, returning to their former schools and going on normally in the grade—their places being immediately taken by other children. One had made a gain of 16 lbs. another 9 lbs. and one was two lbs. over-weight. Six others could be discharged but as it is so near the end of the term it seems best for them to finish the year in this school.

Where the home cooperates with the school the gain is surprising, as in the case of one girl who has been in school nine weeks and has gained eleven pounds. It is needless to say she obeys every health rule and plays the game fair.

**WEIGHT CHART**  
**BANGOR FRESH AIR SCHOOL.**



To Show Fresh Air Benefits in One Typical Case

One girl while in the regular grade school was able to attend but fifteen days in twelve weeks during the fall term. After being transferred to the Fresh Air School she has been present 16 weeks without being absent, and has gained seven pounds.

We have a few pupils who do not yield to treatment here in the school as readily as others. In every instance by questioning the child we find that late hours, improper or irregular eating is indulged in or other indiscretions are permitted by parents in the home. We cannot secure results here unless parents co-operate after the children are home at night.

Unless children faithfully and systematically do at home the right things, then in the Fresh Air School we are merely offsetting the breaking of health rules and children will make only a small gain or none at all.

The general program of the day is as follows School opens at 9 with instruction till ten, then wash and lunch of crackers and milk; 10.30 to 11.45, lessons; 11.45 to 12, games; 12 to 12.45 dinner, preceded and followed by washing and tooth-brush drill; 1 to 2 sleep on cots with all windows open; 2 to 3 lessons, with lunch of hot cocoa or milk and cookies just before starting home.

The noon meal usually consists of some nutritious dish such as soup or chowder or scrambled eggs or spaghetti and cheese with a simple dessert.

The meals are prepared by Miss Lilla McLeod, a trained dietitian. Miss Ethel Harrigan, of the department of domestic science at the High school, has very kindly sent two of her pupils each day to assist in serving.

The pupils now range only from  $\frac{1}{2}\%$  to 10% below normal, whereas they were 8% to 25% below normal weight.

The school was begun as an experiment, it has proved its worth and is not now experimental. Each pupil does what he can, keeps healthfully busy, drinks in fresh air, and grows stronger physically and more alert mentally. To see the color come into the cheeks, the sparkle into the eye and the gain in weight convinces those close to the work that it pays abundantly.

Respectfully submitted,

Nettie M. Howard.

## Report of the School Agent

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*To the Superintending School Committee:—*

I herewith submit my report from November 15 for the remainder of the school year ending June 16.

It was found necessary to make some extensive repairs during this period. At the High School, a new room partitioned off for a supply room for the R. O. T. C., new electrical switches for the lights in the Assembly Hall and stage have been installed so they can be controlled from a stage wing instead of from a dressing room. Repairs have been made on the stonework on the outside of building.

The condition of Pond Street School being unsanitary, new toilet rooms were made of brick and given a sanitary finish. New toilets, urinals, cement floors and ventilators, steel ceilings and electric lights were provided. All wiring in the basement was put in conduits. Two new steel ceilings were put up in the school rooms on the first floor and painted. New carborundum stair treads were used to repair the badly worn wooden treads. A new wire fence has been placed around the school yard. At Valentine School it was found necessary to build a partition in the boiler room in order to retain the heat in the room.

New stairs for the fire escape were made and installed at Cottage Street School. At Larkin Street, new gravel has been put over the school yard and new wire fence put around the yard. At Union Square, on account of the fire in the boiler room, it was necessary to make several changes in order to replace and again refit the building which was damaged to the extent of \$800. New plaster ceilings were put into two rooms in the basement, and all electric wires put in conduits. New anti-panic bolts have been installed on the doors and three new fire alarm horns connected in the building.



At Center Street School, new steps to replace piazza and steps in the rear of the school house have been installed to be used in case of fire. At Palm Street, wires throughout the building have been put in conduits. The fire escape has been extended from the first floor to the ground and a door made from the assembly hall on the third floor to the fire escape with steps leading to same, for use in case of fire. The roof was temporarily patched and the yard newly graveled. At Crosbyville School, new locks have been put on the doors to replace old-fashioned ones. At Third Street School, new washstand installed, and new wire fence put around the school property.

It will be necessary this year to finish the stonework already started on the outside of the High School building as the joints of the granite must all be cemented. New cement floors will be laid in the girls' locker room and in the boys' locker room. A new motor will be necessary in the chemical laboratory to remove the gases from the room. Extensive painting will be done consisting of all rooms on the third floor and corridor, the corridors of the first floor, the superintendent's office and the principal's office, the corridor in the basement and the gymnasium. A few minor repairs will be necessary in the central heating plant.

For the Abraham Lincoln School a new roof will be put on, toilets moved in the boys' basement, doing away with one toilet room which will be used as a manual training room. The entire third floor to be painted and walls repaired, and the chimney repaired and built higher. At Union Square two new steel ceilings will be installed on the top floor, a partition will be built in the upper floor corridor which will make a small rest room for teachers. The entire top floor will be painted, a new iron flag pole will be installed in the yard. At Elm Street, new up-to-date toilets will replace the old ones now in use which are unsanitary and the building will be wired for electric lights and painted both inside and out. At State Street, new toilets will replace the unsanitary ones now in use and the building will be painted inside and out. Pond Street will have two new steel ceilings in the rooms on the second floor and in both halls, and the building will be painted both inside and out. The Bower Street School will



be wired for electric lights, the roof reironed, gutters repaired, and building painted inside and out. At Crosbyville, the building is to be painted inside and out, and minor repairs made. At the Valentine School, new toilets will be installed in both the boys' and girls' basement in place of the unsanitary ones now in use, and the inside of the building painted. At the Larkin Street School the lower floor of the building will be painted and minor repairs made. At Thirteenth Street School, a new water system to be installed consisting of electric pump to furnish water for drinking fountains to be installed both in the upper and lower corridors.

At the Sherburne School, new sanitary Kaustine toilets will be installed, a new chimney built, the building painted and miscellaneous repairs made. At North Bangor, a new addition will be built to consist of boys' and girls' cloak and toilet rooms. New Kaustine toilets will be installed, the building wired for electric lights, a new chimney and new double heater for both rooms to burn both coal and wood. At Avenue School new Kaustine toilets and new heater will be installed, a new chimney built, together with minor repairs. The Hillside School building will be painted throughout and miscellaneous repairs made. At Tyler School, the underpinning will be repaired and the building painted throughout. A new chimney will be built and a new furnace installed, as well as new Kaustine toilet system. At the Bagley School, new Kaustine toilets to be installed, a new chimney built, building to be painted, and several minor repairs made.

Respectfully submitted,

Chester P. Stewart,

School Agent.

## Report of the Truant Officer

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*To the Superintending School Committee:—*

I hereby submit the following report of the Truant Office from November 15, 1921 to the end of the school year, June 16, 1922.

Sixty-nine cases of truancy have been reported to me and looked up during the above period, and all have returned to school promptly without loss of time.

Respectfully submitted,

Chester P. Stewart,  
Truant Officer.

## GRADUATING EXERCISES

OF

### Hannibal Hamlin School

ASSEMBLY HALL, HIGH SCHOOL BUILDING,

Friday Afternoon, June 16, 1922, 2 O'clock

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#### PROGRAM

Prayer..... *Rev. Carl N. Garland*

Daybreak..... *G. F. Wilson*

#### Chorus

Recitation "Kineo"..... *Frances Laughton Mace*

Harold Goldman

Recitation—"The Ride of Jennie McNeal"..... *Will Carleton*

Thelma Collen Shea

Piano Solo..... *Faust*

Walter A. Downs

Recitation—"Parliamentary Law".....

Evelyn Chaples

Duet—"O'er the River"..... *Offenbach*

Edna Dearborn

Dorothy Bradford

Clipping from "Daddy Longlegs".....

Mary Collan

Class Ode..... *Ambrose H. Bowden, 1922*

Conferring of Medals

## CLASS ODE FOR 1922

By Ambrose H. Bowden, Hannibal Hamlin School

Step by step we've climbed the foothills,  
Alps of knowledge loom beyond,  
Bit by bit we've gained this summit—  
To their challenge now respond.  
Toward the steeps we have been guided  
By our teachers wise and fond,  
Who have kept us of't from slipping,  
Through their deeds of skill performed.

## Refrain

Upward ever thus we're climbing,  
Bearing on one thought, one aim;  
Honors due, we'll win to-morrow  
For our Grammar School's dear name.

Standards high we'll carry forward,  
"Up and on" will be our cry,  
Glad at heart to struggle upward  
To the *best* at Bangor High.  
Stirred to effort by our parents,  
Whose dear love no wealth can buy,  
Day by day through storm and sunshine,  
For the highest peak we'll try.

## Refrain

Upward ever thus we're climbing,  
Bearing on one thought, one aim;  
Firm our purpose, true and loyal,  
To bring Bangor High great fame.

## LIST OF GRADUATES

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Donald Adams	Frank H. Cyr
Atwell L. Anderson	Paul Daley
Edwin J. Anderson	William Daley
Everett H. Adams	Edna Dearborn
Kenneth Allen	Lena DeWitt
Geselda Amatruda	Dorothy I. Dolley
Leonard L. Angell	Walter A. Downs
Howard Aughterton	Armand E. Dudley
Josie P. Babine	Frank Duffy
Florence Babcock	Claire F. Dunphey
Willis Baldwin	Winnifred Dutch
Harold Baker	Thelma Dyer
Ora M. Bean	La Rue V. Dymond
Dwight M. Beede	Olga Ebbeson
Otto Beede	Doris G. Eisnor
Burpee Berry	Rachel E. Ellis
Eleanor L. Bille	Dorothea M. Farrar
Marguerite W. Blackwell	Nellie Fessenden
Mabel Booker	William Fessenden
Nora M. Bouchard	Celia Fickett
Adelene Bourdelais	Donovan A. Fickett
Ambrose Bowden	Deborah M. Fogg
Dorothy Bradford	Evelyn F. Friend
Dorothy A. Brown	Beryl A. Gerow
Harold Brown	Carl W. Goff
George B. Bryant	Carmen Gilman
Mary Callan	Kenneth T. Gilpatrick
Evelyn B. Chaples	Harold J. Goldman
James Clark	Earl F. Gott
Frances Clark	Phyllis Grant
Helen Clark	George Gallagher
Donald Clendenning	Leanness Gay
John T. Coffin	Ray H. Grindle
Vaughn N. Coffin	Rupert Grindle
Marie P. Colburn	Olive L. Hamm
Elcena A. Cole	Louis J. Hamm
Mary Collins	Harry Hart
Harold R. Coombs	Verona J. Hartford
Margaret H. Crockett	Doris E. Hatch
Catherine E. Crowley	Leola Hayden
Dorothy M. Culley	Winnifred B. Haynes
Marjorie E. Cunningham	Edward A. Herrick

Mary F. Hughes  
 Katherine C. Jones  
 Ruth Jones  
 Elgin H. Jordan  
 James E. Kenney  
 Andrew S. Knight  
 Helen E. Knapp  
 Maxwell V. Lamson  
 Ruth K. Lathrop  
 Marion L. Lord  
 Richard E. Lord  
 Hilda S. Leen  
 Georgia Mayo  
 Clifton Maynard  
 Albina E. McCarthy  
 Malcolm McCormick  
 Eleanor McDonnell  
 Alice H. McInnis  
 Marion McLaughlin  
 Virginia E. McLaughlin  
 Penelope McLean  
 Everett L. McLeod  
 Lawrence McLeod  
 Beatrice McPherson  
 Elwood W. Millett  
 Doris M. Mooney  
 Emma I. Morgan  
 Charlotte M. Morrill  
 Clyde A. Morse  
 June C. Morse  
 Reginald Morse  
 Cecil P. Murray  
 James Wilton Mutch  
 Richard E. Nason  
 Sylvia E. Ober  
 Frederick A. O'Ree  
 Everett H. Overlock  
 Frances L. Oxley  
 Robert M. Parker  
 Doris Parker  
 Everett Parker  
 Walter Patten  
 Doothy E. Perkins  
 Theodore Persons  
 Eugene H. Pfaff

Ruth K. Pickard  
 Inez Plummer  
 Earle W. Purinton  
 Daisy Quinby  
 Marion Reed  
 Mildred V. Reed  
 William Richardson  
 Morris Richlen  
 Ruth Richardson  
 Alfred E. Robinson  
 Jewell Robinson  
 Norman E. Robinson  
 Vaughn E. Robinson  
 Mildred Roby  
 Merle E. Roby  
 Fred W. Russell  
 Bernetta C. Ryan  
 Robert R. Scripture  
 Helen I. Shaw  
 Thelma C. Shea  
 Doris Silke  
 Charles Silsby  
 Allan E. Simpson  
 Earl Smith  
 Marjorie E. Smith  
 Velma M. Spencer  
 Richard Stuart  
 Doris Tarr  
 Rose A. Tompkins  
 Phyllis Thompson  
 Edith Thomson  
 Ernest H. Trefethen  
 Sara Twist  
 John Wade  
 Agnes V. Watters  
 Dorothy Wattrich  
 Charles E. W. Weston  
 Raymond P. White  
 George F. Williams  
 Harold F. Weston  
 Harold Withee

## SUBURBAN

Central

Arline E. Roberts

## Tyler

Ester Lavina Snow

## Avenue

Flora M. Jellison

Luda Louise Jones

Alden A. Morrison

Vernon W. Richardson

## North Bangor

Florence Irene Chase

Leonard Alphonso Hazelton

Florence Ruth Peavey

## Sherburne

James Hennigan

Bertrand Knowles

Glenice Pinkham

GRADUATING EXERCISES

OF

Abraham Lincoln School

ASSEMBLY HALL, HIGH SCHOOL BUILDING

Friday Morning, June 16, 1922, at 10 O'clock

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PROGRAM

- Prayer.....Rev. Thomas J. Nelligan
- Daybreak.....*G. F. Wilson*  
Chorus
- A Union Soldier.....*John M. Thurston*  
Richard Munce
- A la Bieu-aime, Valse.....*Schutt*  
Barbara Whitman
- Break, Break, Break!.....*Boyd*  
Helene Mosher  
Evangeline Hart  
Esther Armstrong  
Ida Iverson
- The Coming of Anne to Green Gables.....*L. M. Montgomery*  
Mary Quinn
- Somewhere a Voice Is Calling.....*A. F. Tate*  
Charles Mason
- A Song to Maine.....*Louise Helen Coburn*  
Dorothy Brady
- Back to Maine.....*Dr. Irvin J. Morgan*  
Chorus



## LIST OF GRADUATES

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Dorothy Louise Alexander	Dorothy Emple
Herbert Melburn Allen	Sarah Emple
Morris Alpert	Ruth F. Fairbanks
Darrell W. Amos	Amelia Arline Farnham
Esther E. Armstrong	Charlotte Eva Gibson
Clifford John Arnold	Annie Gertrude Goldman
John Atwood	Margaret Helen Goode
Emory Parker Bailey	Robert Donald Goode
Earl Clinton Banks	Helen Daisy Goodridge
Lawrence Irving Berson	Violet Gotlieb
Murray Lyle Billington	Clara Margaret Grover
Brenna Hope Blaisdell	Pauline F. Handy
Dorothy Edith Bowlby	Evangeline Hart
Priscilla Bowles	Harold Francis Henderson
Leroy E. Braley	Minnie Hoffman
Dorothy H. Brady	Gail Hodgman
Pearl Elizabeth Brown	Ray Chase Hollis
Charles A. Burrill	Ida Iversen
Edith E. Burrill	Alberta Louise Jenkins
Katherine Frances Burke	Helen Jewel Jenkins
John James Cameron	Rose Johnston
Gertrude V. Campbell	Hester Keenan
Helen M. Carson	Daniel Francis Kennedy
Arthur Wilbur Chandler	John Harold Kennedy
Helen Frances Clough	Pauline Geneva Kimball
Agnes Louise Coffey	Raymond Henry King
Charles Davis Cohen	Charles Francis Knowles
John A. Collett	William Edward Laffey
Florence Mae Collicut	Dorothy Morse Lancaster
Fred R. Corey	Max Louis Lavoot
James S. Cousens	Francis Adrian Leveille
Gertrude Josephine Crabb	Leon John Luro
Richard James Crawford	Charles F. Mason
Frances Mary Cronin	Gerald MacDonald
Harriet Elizabeth Cross	Ruth Arline MacDonald
John Herbert Crowell	Ruth Dorothy McAlpine
Anna Isabelle Cushman	John Edward McCarthy
William Harvey Cutler	Harold M. McDonald
Esther Louise Davenport	Carr F. McInnis
Herbert Norman Day	M. Joseph McInnis
Evelyn Bernice Doughty	Mary Jane McLeod
Pauline Marguerite Dunn	Katherine Mary McNeil

Carl Miller  
Helen Teresa Moran  
Helen H. Mosher  
Hubert Andrew Mullins  
Richard Thomas Munce  
Hazel Ella Nye  
Helen Mae Oakes  
Verna Delia Oakes  
Thelma Irline Peavey  
Herbert William Perkins  
Louise M. Prince  
Mary Teresa Quinn  
Guy Lionel Rainsford, Jr.  
Francis Leroy Rand  
Clyde A. Rano  
Lucy Mary Rea  
Kenneth Robbins  
Gorham J. Robinson  
Mattie E. Robinson  
Edith Rodgik  
Samuel Rolsky  
Isador Robert Rubin  
Violet Rubin  
David Elias Rudman  
William Ambrose Ryder  
Eleanor L. Sawyer  
Walter Lotte Scripture

Samuel Share  
Georgie M. Shaw  
Francis Henry Simpson  
Margaret Ella Smith  
N. Elwin Smith  
Yvonne Mary Soucie  
Donald A. Sprague  
Donald C. Staples  
Edward Stern  
Susan Striar  
Arthur Joseph Sullivan  
Margaret F. Sullivan  
Florence Ada Taylor  
Clyde Willis Tibbetts  
Allie Tomchin  
Katherine W. Trickey  
Nadine Louise Wakely  
Albert George Washburn  
Mary B. Whalen  
Nellie Frances Whalen  
Barbara Huntington Whitman  
Malcolm John Wilkes  
Henry French Willey  
Francis Lorenzo Wilshire  
Vincent William Woodman  
William Yesner  
Philip Radcliff Yerxa

Class of 1922  
Bangor High School  
June 16, 1922

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*"Onward and Upward"*

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CLASS OFFICERS

Edwin M. Short, President

Blanche Bowden, Vice-President

Marjorie E. Barber, Secretary

Robert W. Coyne, Treasurer

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PROGRAM

Music—Triumphal March from "Aida".....Verdi  
 Invocation.....  
 Essay—The Coal Problem and Its Solution.....Eugene K. Rowe  
 Essay—The United States in Haiti and San Domingo.....V Julia Johnson  
 Chorus—Valentine's Farewell from Faust.....Gounod  
 History.....Paul E. Atwood  
 Essay—The Westward Bound.....Leroy A. Campbell  
 History.....Doris Moore  
 Chorus—Venetian Summer Night.....Moszkowski  
 Essay—Prohibition.....Mary B. Belinian  
 Parting Address.....Robert W. Coyne  
 Music—Overture to the Bohemian Girl.....Balfe

Conferring Diplomas

Conferring Medals

Singing of Class Ode

## CLASS ODE, 1922

Today, as we come to the end of one trip  
 That we've made in the voyage of life,  
 We are pained as we stand on the deck of the ship  
 That has borne us along without strife.  
 For we know there's a break; our courses divide,  
 And the moments before us fly.  
 We have traveled and toiled so long side by side,  
 But tonight we must say good-bye.

We each of us board a ship that is new,  
 For we must not and can not delay;  
 The waves of time are bearing us through,  
 Though the anchors we fain would stay.  
 But we shall sail on the same great sea  
 With the same great passions and hope;  
 To our teachers, true ever grateful we'll be  
 As with many a whirlpool we cope.

Two banners bright o'er voyagers shall fly,  
 At the stern and again at the bow;  
 The Crimson and White of dear Bangor High,  
 And the Silver and Blue we avow.  
 When we all glide in toward the homeland port,  
 May this be the thought that controls—  
 "Ever *Onward and Upward* has been my effort."  
 May it come from the depths of our souls!

## FIRST HONORS

## VERAGE OF A FOR THE COURSE IN ORDER OF RANK

LeRoy A. Campbell	Pearl R. Graffam
Elizabeth P. Clough	Hazen E. Nutter
V. Julia Johnson	Florence Harriman
Mary B. Belinian	Blanche Bowden
Marion V. Hurlburt*	Bertha O. Wilson
Howard Corning, Jr. ‡	Marion E. Spurling
Josephine Cleary	Grace B. Thurston
Eloise Webb †	Ada Cohen
Sumner Cox	Carolyn Grant
Christine McLaughlin	Luvie B. Grant

Hulda O. Wood

‡Three years

†Two years

\*One year

## SECOND HONORS

## AVERAGE OF B FOR THE COURSE

Names Arranged Alphabetically

Cecelia L. Abbott	Mary E. Kennedy
Mary A. Ambrose	A. Roland Kenney
Franklin G. Baker	Helen Z. Kimball†
Virginia E. Baldwin	Sarah I. Levine
Grace G. Ball	Forrest W. Luro
Marjorie E. Barber	Pauline M. McAlpine
C. Carleton Bean	Margaret C. McCart
Irvin L. Billings	Mildred E. McGarrigle
Meda V. Billings	Warren H. Maddocks
Freda A. Bostrom	Clara W. Mason
L. Arline Bowe	Emily O. Miller
Frances I. Brown	Margaret E. Millett†
Sadie G. Brown	Ruth E. Mills
Arlyne H. Burpee	Dorothy L. Mincher
Frank T. Clark	Doris T. Moore
Isabel L. Coffin	Franck P. Morrison
M. Evelyn Coney	H. Gladys Nickerson
Robert W. Coyne	Harold E. Noddin
Francis C. Curran	M. Frances O'Brien
Katherine Cushing	Helen M. O'Connell
Pauline L. Davis	Thelma M. Overlock
Ruth M. DeMerritt	Warren S. Overlock
Richard P. Denaco	Hildred I. Oxley
Virginia G. Doane	E. Eugenia Patten
Ada D. Emple	Roosevelt R. Pease
Mabel L. Fessenden	Velma A. Perry†
M. Madeline Gillen	Vera E. Porteous*
Herbert C. Glass	Laura J. Pratt
E. Halcyon Goodwin†	Edward H. Prescott
Gladys M. Grant	Helen M. Prescott†
Pauline Granville	Goldie K. Raichlen
Edna M. Griffin	Sherwin M. Ricker
Mary E. Grover	Darthea V. Rideout
Hilda J. Harding	Mildred V. Roberts
Joseph J. Harris	Vivian L. Robinson
M. Estelle Hickson	Willis R. Rollins
George H. Horton	Esther M. Rolsky
Arlene Hussey	Ralph A. Scherer
Wilson G. James	Sidney W. Schiro
Marion E. Johnstone	Eileen E. Severance

## SECOND HONORS—Continued

Natalie E. Smith	Maurice F. Ulmer†	
Ruth E. Smith‡	E. Stewart Walsh	
Marion M. Spellman	Paul E. Watson	
Ella M. Stanley	Berdena A. Watters	
Clifford E. Stevenson	Clive Wentworth	
Margaret B. Sullivan	Gerald S. Wheeler	
Timothy B. Sullivan	Wade A. White	
Malcolm A. Tapley	Ralph E. Whitmore	
Esther L. Thompson	Frances M. Willetts	
F. Lyndon Trueworthy	Pauline Witham	
‡Three years	†Two years	*One year

## HONORS IN ENGLISH ESSAYS

Virginia E. Baldwin	LeRoy A. Campbell
Mary B. Belinian	Irving B. Kelley
V. Julia Johnson	Eugene K. Rowe
Ruth E. Mills	Clifford E. Stevenson

## NAMES OF GRADUATES

Figures after name indicate number of credits earned  
Number of credits required for graduates, 70

Cecelia L. Abbott, 80½	L. Arline Bowe, 81½
Mary E. Ambrose, 78	Dorothy S. Brown, 81
John R. Anderson, 79½	Frances I. Brown, 84
Paul E. Atwood, 88½	Sadie G. Brown, 80½
G. Franklin Baker, 84	Arlyne H. Burpee, 81½
Virginia E. Baldwin, 86	George A. Cameron, 78
Grace G. Ball, 80½	LeRoy A. Campbell, 92½
George Barakat, 92	Dorothy M. Chase, 80½
Marjorie E. Barber, 70	Frank T. Clark, 77
C. Carleton Bean, 83	Geraldine W. Clark, 75½
Mary B. Belinian, 81½	Josephine C. Cleary, 81
Walter R. Bell, 80	Shirley M. Clendenning, 70
Thelma M. Bennett, 83	Elizabeth P. Clough, 92½
Maurice L. Berson, 82	Isabel L. Coffin, 80½
Irvin L. Billings, 82	Ada Cohen, 80½
Meda V. Billings, 80½	David M. Cohen, 78½
Dorothy E. Black, 81	Nathan J. Cohen, 73
Paul C. Blethen, 83	Raymond W. Collins, 75
Freda A. Bostrom, 73	M. Evelyn Coney, 86
Albert J. Boudreau, 79½	Dorinda E. Connor, 76
Blanche Bowden, 98½	Mary A. Conway, 80½

## NAMES OF GRADUATES—Continued

Howard Corning, Jr., 86½	Florence Harriman, 75½
Albert H. Cotton, 75½	Joseph J. Harris, 79½
Manson W. Cowan, 70	J. Wyman Hathaway, 88½
E. Sumner Cox, 82	Joseph L. Hecht, 85½
Robert W. Coyne, 83	Laura A. Hewey, 73
H. Stanley Cunningham, 75	M. Estelle Hickson, 80½
Francis C. Curran, 83½	Donald P. Holmes, 77
Katherine Cushing, 78	George H. Horton, 80½
Margaret Dacey, 70	Orvil L. Hough, 87½
Bertha A. Davis, 75½	Marion V. Hurlburt, 80
Charles P. Davis, 87	Arlene Hussey, 80½
Pauline L. Davis, 86	Robert J. Hutchins, 86
Florian S. Day, 81	Wilson G. James, 87
Ruth M. DeMerritt, 81	Francis M. Jarvis, 88½
Richard P. Denaco, 84½	V. Julia Johnson, 91½
Virginia G. Doane, 80½	Marion E. Johnstone, 73
James T. Dow, 79½	Clyde P. Jones, 85½
Raymond L. Downs, 75½	Pauline B. Jordan, 80½
Henry S. Dowst, 77½	Myrle T. Joslin, 74
Agnes G. Durgin, 73	Sarah Kamenkovitz, 80
Dorothea A. Dyer, 70	Eileen F. Kane, 81
Ada D. Emple, 84½	Maurice W. Kane, 84½
Faye C. Everett, 86	John L. Kelliher, 73
Mabel L. Fessenden, 85	Irving B. Kelley, 96
T. Edmund Flanigan, 80½	Mary E. Kennedy, 75½
M. Lillian Flanigan, 75½	Roland Kenney, 79½
Dorothy Galpert, 75½	Helen Z. Kimball, 85
M. Madeline Gillen, 84	Lewis H. Kitchen, 75½
Herbert C. Glass, 72	Dorothy P. Leach, 75
Joseph L. Goodman, 70½	Vesta E. Leighton, 70
E. Halcyon Goodwin, 75	V. Roland Leveille, 90
Franklin H. Gordon, 74½	Sarah I. Levine, 80½
Pearl R. Graffam, 88½	Forrest W. Luro, 80
Carolyn M. Grant, 85½	Chestena G. Lymburner, 76
Gladys M. Grant, 85½	Margaret A. Lynch, 74
Luvie B. Grant, 83	Pauline M. McAlpine, 78
Pauline Granville, 76½	Margaret C. McCart, 80½
Ethel Greeley, 75	Kathleen A. McCarthy, 80½
Edna M. Griffin, 83	Edward J. McClay, 70½
Helen E. Griffin, 75½	Mildred E. McGarrigle, 83
Mary E. Grover, 70½	Donald F. McGary, 78½
Lillian E. Haley, 75½	Christine M. McLaughlin, 91
Norris A. Hammons, 72	Theresa M. McLaughlin, 75½
Hilda J. Harding, 80½	M. Winifred McIsaac, 72½



## NAMES OF GRADUATES—Continued

- Robert C. McLeod, 83  
H. Warren Maddocks, 85  
Sylvia C. Mann, 75  
Ralph Marcus, 80½  
Samuel J. Marsh, 78½  
Dorothy M. Martin, 70  
Clara W. Mason, 81  
Emily O. Miller, 78½  
Margaret E. Millett, 72½  
Ruth E. Mills, 86  
Dorothy L. Mincher, 83½  
Doris T. Moore, 82½  
Franck P. Morrison, 87½  
Everett S. Murdock, 72  
M. Marguerite Murray, 85  
Opal I. Mutch, 73  
Louise A. Nichols, 84  
H. Gladys Nickerson, 80½  
William D. Nickerson, 79½  
Harold E. Noddin, 82  
Hazen E. Nutter, 84  
M. Frances O'Brien, 80½  
Helen M. O'Connell, 79½  
Mabel M. Norton, 70  
Kenneth E. O'Connell, 77  
M. Isabelle O'Connor, 81½  
Thelma M. Overlock, 81  
Warren S. Overlock, 80½  
Hildred I. Oxley, 80½  
Esther L. Patten, 75½  
Ethel E. Patten, 84  
Roosevelt R. Pease, 85  
M. Ellen Pendleton, 80½  
Clifford W. Perry, 74½  
Velma A. Perry, 75  
Mathea L. Person, 73  
Vera E. Porteous, 92½  
Laura J. Pratt, 80½  
Edward H. Prescott, 82½  
Helen M. Prescott, 72½  
Franklin T. Price, 71½  
John J. Quirk, 72  
Goldie K. Raichlen, 82½  
Samuel Raichlen, 83  
Sherwin M. Ricker, 82  
Darthea V. Rideout, 80  
Helen Robbins, 74  
Mildred V. Roberts, 80½  
Vivian L. Robinson, 79  
Willis Rollins, 92½  
Esther M. Rolsky, 75  
Eugene K. Rowe, 84½  
Evelyn M. Ryder, 82½  
Simear F. Sawyer, 79½  
Ralph A. Scherer, 82  
Sidney W. Schiro, 82  
Eileen E. Severance, 81  
John T. Shaugnessey, 72  
Edward M. Short, 80½  
Charles S. Silsby, 83  
Donald L. Smith, 79½  
Natalie E. Smith, 78  
Ruth E. Smith, 80  
Thelma L. Smith, 80½  
Vernon H. Somers, 90  
G. Edwin Soper, 85  
Marion M. Spellman, 80½  
Marion E. Spurling, 81  
Augusta G. Spinney, 72½  
Ella M. Stanley, 81½  
Clifford E. Stevenson, 83½  
Malcolm M. Street, 74½  
Margaret B. Sullivan, 88½  
Timothy B. Sullivan, 84½  
Malcolm A. Tapley, 77  
Esther L. Thompson, 82  
Grace B. Thurston, 81  
Harriet L. Tozier, 80½  
Agnes C. Tracy, 82  
Guy W. Tribou, 72  
F. Lyndon Trueworthy, 78  
Maurice F. Ulmer, 80  
Eva F. Wakely, 79½  
E. Stewart Walsh, 87½  
Lillian F. Wall, 77½  
Paul E. Watson, 83  
Berdona A. Watters, 78  
M. Eloise Webb, 80



## NAMES OF GRADUATES—Concluded

Arleen Weiler, 83	Williams, Shirley M. 80
Clive Wentworth, 83½	Bertha O. Wilson, 84
Dorothy R. Whalen, 78	George E. Wing, 87½
Gerald S. Wheeler, 83½	Pauline Witham, 81½
Wade A. White, 82	Eva W. Wood, 75
Ralph E. Whitmore, 85	Hulda O. Wood, 80½
Frances M. Willetts, 81½	Gabrielle I. Wooster, 80½
Edna C. Willey, 76	R. Embert Worcester, 75

## REPORT OF THE Charity Department

*To His Honor, the Mayor, and the City Council:*

Gentlemen:

We herewith submit our annual report for the financial year (10 months) ending Dec. 31, 1921.

### ALMSHOUSE INVENTORIES

Value of land and buildings.....	\$131,900.00
Value of household furniture and supplies.....	4,000.00
Value of livestock, farming tools, and other property.....	3,500.00
Total.....	\$139,400.00
Annual appropriation.....	\$28,830.00

### EXPENDITURES

Salaries and wages.....	\$7,363.07
Food supplies.....	4,313.89
Inmates' clothing.....	870.03
Repairs of buildings, furniture, etc.....	3,540.36
Other purposes.....	5,905.79
Total.....	\$21,913.14
Income from sales of produce, livestock, etc.	1,703.72
Net cost of maintaining the institution....	20,289.42
Paid for persons assisted in their homes, boarded, etc.....	7,337.98
Paid to other towns.....	358.81
Paid for salaries and expenses of overseers, clerks, etc.....	1,169.61
Total cost of poor relief for the year....	\$29,155.82

CENSUS

Number at the almshouse at the beginning of the year....	93	
Number admitted during the year.....	20	
		—
Total.....		113
Number discharged, died, etc.....	22	
Number remaining, age and sex, at end of year:		
Males under 16.....	4	
Males 16 to 60.....	28	
Males over 60.....	37	
Females under 16.....	3	
Females 16 to 60.....	7	
Females over 60.....	14	
		— 93
Daily average number of inmates at the almshouse... .	57	
Number of persons assisted outside.....	59	Families

CROPS RAISED

Hay raised.....	125 Tons
Grain.....	400 Bushels
Potatoes.....	400 Bushels
Beans.....	40 Bushels
Beets.....	500 Bushels
Apples.....	300 Bushels

STOCK

The Stock consists of:

12 Cows.	23 Hogs.
5 Heifers, 2 years.	5 Horses.
1 Bull.	25 Hens.

In conclusion we wish to thank the Mayor, the Committee on our Department, the City Missionary and City Physician for their hearty co-operation at all times during the year.

Respectfully submitted,

N. A. Kenney,  
 Daniel W. Maxfield,  
 Wm. Z. Clayton,  
 Overseers of Poor.

# Bangor City Government

## 1922

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Mayor, ALBERT R. DAY

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### ALDERMEN

Ward 1. Bartholomew C. Millett, Jr.	Ward 2. Chas. J. Ferry
Ward 3. E. Earle Herrick	Ward 4. Benj. W. Mayo
Ward 5. Archie R. Lovette	Ward 6. Frank O. Youngs
Ward 7. John H. Magee	

### COMMON COUNCIL

President, Henry J. Wheelwright

#### Ward 1

Frank Karam	J. Frank McManus	Leonard H. Ford
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#### Ward 2

Daniel A. Sargent	Dennis J. Cullinan	Frank P. McDonough
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#### Ward 3

Charles A. Potter	Arthur G. Williams	Felix L. Ryan
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#### Ward 4

Frederick F. Lord	Herman L. Johnson	Harry R. Williams
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#### Ward 5

Henry J. Wheelwright	Carroll A. Weeks	Samuel N. Cohen
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#### Ward 6

Harvey E. Knowles	William R. Ballou	Charles A. Davis
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#### Ward 7

Harold L. Barton	Louis F. Fleming	Martin J. McDonough
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Clerk of Board, Thomas G. Donovan

## WARD OFFICERS

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### WARDENS

- Ward 1. Timothy J. McCarthy
- Ward 2. Harrison J. Davis
- Ward 3. U. G. Mudgett
- Ward 4. Joseph T. Holbrook
- Ward 5. John Goldthwait
- Ward 6. Olin L. Clement
- Ward 7. Francis X. Sweeney

### WARD CLERKS

- Ward 1. Wm. H. Corcoran
- Ward 2. Edward L. Ferry
- Ward 3. Elmer O. Whitten
- Ward 4. Byron C. Hodgkins
- Ward 5. John H. Pritchard
- Ward 6. E. Earl Hamm
- Ward 7. John T. Barry

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### BOARD OF REGISTRATION

- William M. Brown, Chairman.....Term expires May 1, 1925
- James A. Gallagher.....Term expires May 1, 1923
- Henry B. Thoms.....Term expires May 1, 1923

## CITY OFFICERS 1921-1922

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Mayor, Jarvis B. Woods

### ELECTED BY THE CITY COUNCIL

City Clerk—Victor Brett  
 City Treasurer and Collector—Thos. G. Donovan  
 City Auditor—Lucien C. Everett  
 City Solicitor—Geo. F. Eaton  
 Chief of Police—Calvin Knaide  
 City Electrician—Murray D. Gallupe  
 Chief Engineer of Fire Department—Eugene LeBarrows  
 City Physician—Edward L. Herlihy  
 Harbor Master—Edwin Lord

### BOARD OF PUBLIC WORKS

Wm. D. Matheson . . . . . Term expires 1923  
 Wm. J. Largay . . . . . Term expires 1923  
 Chas. Murray . . . . . Term expires 1924  
 R. E. Mullaney . . . . . Term expires 1924  
 Chas. H. Bartlett . . . . . Term expires 1925  
 John P. Frawley . . . . . Term expires 1925  
 John C. Burdeen, Secretary  
 Stephen S. Bunker, City Engineer and Supt. of Streets, Sewers and Parks

### ASSESSORS

Hiram S. Haskell . . . . . Term expires 1925  
 Elmer E. Hodgkins . . . . . Term expires 1923  
 John G. James . . . . . Term expires 1924

### OVERSEERS OF THE POOR

Daniel W. Maxfield . . . . . Term expires 1925  
 Nathaniel A. Kenney . . . . . Term expires 1923  
 Wm. Z. Clayton . . . . . Term expires 1924

## SCHOOL COMMITTEE

Arthur C. Nickerson.....	Term expires 1923
Jane P. Roberts.....	Term expires 1924
Jere F. Angley.....	Term expires 1924
Chas. D. Crosby.....	Term expires 1925
W. K. Hallett.....	Term expires 1925

## SUPERINTENDENT OF SCHOOLS

(Appointed by School Committee)

True C. Morrill

School Agent and Truant Officer.....Chester P. Stewart

## STREET ENGINEERS

S. S. Bunker, ex-officio, Benj. W. Mayo, H. L. Johnson

## CEMETERY BOARD

Benj. F. Tefft, Eben W. Blunt, Ralph B. White

Constables—Frank J. Rogan, Calvin Knaide, Frank M. Douglas, William E. Dyer, Thomas F. Allen, Guy L. Peavey, H. L. Archer, G. A. Tibbetts, Lewis Richelson, Willard B. Clark, John Goldthwait, O. L. Clement, D. J. McGrath, Jr., Wm. J. Nagle, Simon O'Leary, J. L. Fahey, Frank J. Golden, Geo. A. Sprague, Walter C. Strout, D. F. Kennedy, Ernest N. Smith, T. E. O'Donohue.

Surveyors of Lumber—Harry M. Smith, J. E. Gillispie, D. J. McGrath, Jr., Frank E. Flaherty, G. F. Tibbetts, E. L. Thurston, Fred B. Tuck, Herbert P. Constantine.

Fence Viewers—Chas. M. Foster, Joseph B. Leathers, Ira P. Watson, Nathan Sanders, Frank H. Prilay, Gideon Ray, S. N. Cohen, James Keller, W. H. Nickerson.

## BANGOR WATER BOARD

Jarvis B. Woods, Mayor, ex-officio

Frank P. Denaco.....	Term expires March, 1923
Hayward C. Dunham.....	Term expires March, 1923
M. S. Clifford.....	Term expires March, 1924
Jos. E. Friend.....	Term expires March, 1924
Hosea B. Buck.....	Term expires March, 1925
W. S. Higgins.....	Term expires March, 1925

## CLERK AND COLLECTOR

Walter I. Brown

Assistants—Edna B. Pickard, Madeline F. Abbott

Superintendent—Melville A. Sinclair

Chief Engineer—J. W. Dougherty

Inspector—Alvah W. Blaisdell

Inspector—Thos. V. Campbell

Consulting Chemist—Prof. James M. Caird

Resident Chemist—A. C. Powell

## TRUSTEES OF HERSEY FUND

A. R. Day, Mayor, ex-officio	Thos. G. Donovan, Treasurer, ex-officio
Arthur Chapin.....	Term expires February, 1927
Frederic W. Adams.....	Term expires February, 1923
William F. Curran.....	Term expires February, 1925

## APPOINTED BY THE MAYOR AND ALDERMEN

Inspector of Buildings—William E. Givren

Sealer of Weights and Measures—Geo. Savage

City Missionary—Mrs. Jennie McPhee Johnson

Inspector of Milk—H. D. McNeil

Health officer (full time), Harry D. McNeil

## POLICE DEPARTMENT

Chief of Police, Calvin Knaide

## REGULAR POLICEMEN

James L. Fahey, Deputy Chief

John T. Mackie	Harry P. Baker
Dennis J. Griffin	William F. McAllister, Headquarters Man
Cornelius Donovan	Daniel F. Kennedy
Thomas E. O'Donohue	John W. Mahoney
Frank J. Golden, Inspector	James E. Reagan
Frank J. Rogan	Ambrose L. Phillips, Captain
Ralph G. Reid	Fred H. Bean
James P. Beck	Horace S. Berry
Benjamin P. Sproul, Captain	Charles F. Carey, Sergeant
William H. Mead, Sergeant	James A. Conners
Walter R. Holmes	Frank E. Foley
William H. Gehigan	Timothy Rogers
Walter E. Strout	Dolor Veilleaux
Lester Chick	Edward J. Conley
Henry M. Geagan	



## SPECIAL PATROLMEN

Chester P. Clark  
Wm. H. Ferry

Thomas I. Crowley  
Harry Tremble

## SPECIAL—BREWER BRIDGE

Timothy J. O'Leary

## SPECIAL CHAUFFEURS

William F. Banks

Levi L. Lambert

Porter S. Eliot

## POLICE EXAMINING BOARD

A. K. P. Smith . . . . . Term expires March, 1923  
Chas. M. Stewart . . . . . Term expires March, 1924  
E. L. Herlihy, City Physician, ex-officio

Measurers of Wood and Bark—Arthur Wentworth, T. H. Donovan, Armory W. Staples, Chas. A. Elkins, Geo. A. Daley, Chas. M. Stewart, A. J. Robinson, Fred B. Tuck, Eben W. Blunt, W. B. Crossman, Albert Weston, Hosea B. Buck, E. H. Toole, John D. Toole, G. A. Tibbetts.

Public Weighers and Gaugers—John F. Woodman, J. F. Angley, F. C. Brackett, F. F. Rich, Arthur Wentworth, T. A. Daley, I. W. Barker, C. M. Stewart, Fred B. Tuck, Samuel J. Robinson, W. A. Decker, W. F. Brackett, J. F. Green, E. C. Graham, Eben W. Blunt, James Hayes, H. C. Applebee, Peter A. Currier, J. M. Murphy, Albert Weston, R. A. Dyer, F. M. Woodman, Henry F. Whitman, Abram Brown, Edward H. Toole, John H. Rice, Guy P. Bailey, John D. Toole, D. L. Mitchell, F. R. Burke, Geo. M. Drew, A. U. Daigle, F. O. Jellison, B. B. Scott, E. E. Hamm, H. D. Eaton, W. M. Barry, F. H. Toole, Elmer Jordan, J. H. Gillis, W. H. McGinness, C. T. Angel, Earl Jennings, A. J. Field, B. H. Tweedie, E. M. Sylvester, C. E. Collamore, Ganett D. Spiers.

## SUPERINTENDENT OF BURIALS

Reuben E. Hathorn

## UNDERTAKERS

Reuben E. Hathorn—Mt. Hope  
Wm. H. McCart—Mt. Pleasant  
Ralph C. Eveleth—Oak Grove, Finson road  
Edward H. Allen—Pine Grove, Carmel road  
Arthur Wentworth—Maple Grove, Pushaw road

## SUPERINTENDENT OF CLOCKS

(Employed by the Mayor)

Herbert C. Burpee

## APPOINTED BY HEALTH OFFICER

Inspector of Plumbing

David W. Mackie

## SUPERINTENDENT OF ALMSHOUSE

(Appointed by the Mayor)

Lewis E. Klatte

## ASSISTANT ASSESSORS

(Appointed by Assessors and approved by Mayor and Aldermen)

Ward 1. Samuel Davis  
Ward 2. Ashley B. Wood  
Ward 3. Percy Runnells  
Ward 4. Elsie T. Stover  
Ward 5. Gideon Mayo  
Ward 6. F. S. Bernauer  
Ward 7. Wm. Burfitt

## BOARD OF MOTHERS' AID

Mrs. Jennie A. Doering  
Mrs. C. C. Emery  
Mrs. Ethel Nickerson

## CHIEF OF FIRE DEPARTMENT

Eugene LaBarrow

## OFFICERS AND PERMANENT MEN

(Appointed by the Chief Engineer and approved by Aldermen)

## PERMANENT MEN

P. J. Kelley, 1st District Chief  
J. P. McCosker, 2d District Chief  
Dennis Curran, Call Chief  
J. Frank Granville, Clerk  
John T. Gullifer, Driver Auto Truck  
Charles P. Lee, Driver Auto Truck  
Fred M. Crowell, Chief Engineer of Steamers  
Daniel T. Sexton, Captain and Clerk  
Joseph E. Leavitt, Driver Aerial Truck  
Frank A. Libbey, Driver Aerial Truck  
Frank A. Libbey, Driver Aerial Truck  
Seth D. Libbey, Ladderman  
Geo. A. Rimbach, Ladderman  
William E. McGrath, Ladderman  
Daniel T. Mooney, Hoseman  
Everett E. Morrison, Driver Station 2  
Edwin O. Burr, Assistant Driver Station 2  
Albert B. Smith, Driver Station 3  
Michael J. Cochran, Assistant Driver Station 3  
William J. Charlton, Driver Station 4  
Jere A. Driscoll, Assistant Driver Station 4  
Chas. Johnson, Driver Steamer, Station 4  
Wm. T. Pierce, Engineer of Steamer, Station 4  
Albert C. Lambert, Driver Station 5  
James E. Crowley, Assistant Driver Station 5  
John N. Wilshire, Driver Ladder Truck Station 5  
Geo. K. Adams, Assistant Driver Ladder Truck, Station 5  
Herbert J. Coleman, Driver Station 6  
Walter R. Jordan, Assistant Driver Station 6  
Dennis J. Givren, Assistant Driver Station 6



## ON PUBLIC UTILITIES

Alderman Ferry

Councilmen Lord and Davis

## ON TAXATION

Alderman Lovette

Councilmen Knowles and M. J. McDonough

## ON BY-LAWS AND POLICE REGULATIONS

Alderman Herrick

Councilmen Potter and M. J. McDonough

## ON ENGROSSED BILLS

Aldermen Millett and Mayo

Councilmen Cohen and F. P. McDonough

## ON LICENSES

Aldermen Herrick and Magee

Councilmen Weeks, Ballou and Ford

## ON ELECTIONS

Aldermen Millett, Magee and Mayo

## ON ELECTIONS IN COMMON COUNCIL

Councilmen Davis, McManus and Potter

## STREET ENGINEERS

City Engineer, ex-officio Benj. W. Mayo H. L. Johnson

## SCHOOL COMMITTEE

W. K. Hallett

Chas. D. Crosby

Jane P. Roberts

J. F. Angley

Arthur C. Nickerson

## OVERSEERS OF THE POOR

Daniel W. Maxfield

Wm. Z. Clayton

Nathaniel A. Kenney

## ASSESSORS

Hiram S. Haskell

John G. James

Elmer E. Hodgkins

## BOARD OF PUBLIC WORKS

W. D. Matheson, 1 year; Wm. J. Largay, 1 year; Chas. Murray, 2 years;  
Roderick E. Mullaney, 2 years; Chas. H. Bartlett, 3 years;  
John P. Frawley, 3 years.

The City Engineer, Street Commissioner, Supt. of Sewers and Supt. of  
Parks to be elected by this Board

## WATER BOARD

Albert R. Day, Mayor ex-officio

W. S. Higgins

F. P. Denaco

H. C. Dunham

Milton S. Clifford

Jos. E. Friend

Hosea B. Buck

Clerk and Collector—Walter I. Beown

Chief Engineer—J. W. Dougherty

Superintendent—Melville A. Sinclair

Inspectors—Thos. V. Campbell and Alvah W. Blaisdell

Consulting Chemist—Prof. James M. Caird

Resident Chemist—A. C. Powell

## SALARIES OF SUBORDINATE OFFICERS

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Mayor . . . . .	\$1,500.00
City Clerk . . . . .	1,000.00
Clerk of Common Council . . . . .	125.00
Chief of Police (including horse hire) . . . . .	1,700.00
Police Deputy, Inspector and Captains, each, per day . . . . .	4.25
Policemen, for each day's actual service . . . . .	4.00
City Solicitor, including office rent . . . . .	750.00
Chief Engineer of Fire Department . . . . .	1,700.00
Harbor Master . . . . .	400.00
Health Officer, full time . . . . .	2,500.00
Inspector of Plumbing, per day . . . . .	4.00
City Treasurer and Collector of Taxes . . . . .	2,000.00
Treasurer's Assistant . . . . .	1,200.00
Overseers of the Poor, Sec. . . . .	600.00
The other two members, each . . . . .	400.00
Superintendent of Almshouse . . . . .	1,000.00
Street Engineers (including horse hire) Alderman . . . . .	100.00
Street Engineers, Councilman . . . . .	50.00
School Committee, each . . . . .	60.00
City Physician, (including horse hire and all services except in cases of smallpox, cholera and yellow fever, and the city to furnish all medicines) . . . . .	500.00
City Engineer and Supt. of Streets, Sewers and Parks . . . . .	4,000.00
Assessors, each . . . . .	1800.00
Assistant Assessors, per day, each . . . . .	3.00
Superintendent of Public clocks . . . . .	150.00
City Auditor . . . . .	2,000.00
City Electrician . . . . .	1,700.00
Clerk of Water Board . . . . .	2,300.00
Engineer of Water Works . . . . .	1,700.00
Superintendent of Water Dept. . . . .	2,750.00
Undertaker (R. E. Harhorn) (fixed by Ordinance) . . . . .	300.00
Undertaker ( Wm. McCart) (fixed by Ordinance) . . . . .	200.00

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