

1918

City of Bangor Mayor's Address The Annual Reports of the Several Departments and the Receipts and Expenditures for the Municipal Year 1917-1918

Bangor (Me.)

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CITY OF BANGOR



MAYOR'S ADDRESS

THE ANNUAL REPORTS

OF THE SEVERAL DEPARTMENTS

AND THE

RECEIPTS AND EXPENDITURES .

FOR THE MUNICIPAL YEAR

1917-1918



Bangor City Government

1917-18

Mayor, JOHN F. WOODMAN

ALDERMEN

Ward 1. Edward R. Hickson	Ward 4. Harry R. Williams
Ward 2. Fred A. Porter	Ward 5. William D. Matheson
Ward 3. Benjamin F. Tefft	Ward 6. Frank O. Youngs
Ward 7. Chas. G. O'Connor	

COMMON COUNCILMEN

President, Hayward C. Dunham

Ward 1

William P. Flannigan	Walter T. Burns	James E. McGrath
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Ward 2

Frank Ryan	Henry J. Russell	Harry E. Coleman
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Ward 3

Charles F. Eames	Elmer E. McFarland	Hilliard E. Johnston
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Ward 4

Edgar J. Nickerson	Frank MacLennan	Franklin A. W. Field
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Ward 5

Hayward C. Dunham	Charles C. Sanford	Charles F. Winchester
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Ward 6

Asa T. Grant	Frank T. Mason	Myer W. Epstein
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Ward 7

James P. Quine	William A. Ryder	John P. Mooney
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Clerk of Board, Thomas G. Donovan

Mayor's Address

Gentlemen of the City Council:

One week ago today at the polls, the citizens of Bangor selected each of you, together with myself, to be their representatives, and in their behalf to do those things which may be necessary to be done, to carry on and maintain the business affairs and public institutions of our city. We enter upon our duties this year under conditions which will require of us the exercise of extreme care and thoughtful consideration in our action upon each and every measure brought before us. I have said "do those things which may be necessary to be done" and I desire to emphasize those words, especially the word "necessary." We are facing a year which will strain to the limit, the financial resources of all our people, and economy must be strictly observed in all our doings, to the end that as small a draft as possible may be made upon the people who pay.

A recommendation has been made by the Federal government to all municipalities to endeavor to curtail expenditures, and withhold new construction work as far as possible meaning such work as can be postponed without producing harmful results. Now I do not construe that recommendation to mean that we are to be niggardly, or neglectful of things that require attention, or a refusal or failure to spend the public money where the common welfare requires expenditures. In connection there-

with however the government also recommends "business as usual," but with a more careful exercise of thrift and economy in conducting it, and the prevention and elimination of all waste. The laborer must have work, the merchant must have trade, and the manufacturer a market for his goods, otherwise the sources of income would cease, and without any income or resources we would all be powerless to render financial assistance for any purpose; and you, and I and all of us, will be called upon and in duty bound, for an indefinite period, to lend, and lend, and give, and give again, and sacrifice in many ways, in order to save to ourselves and our country and state and city, the things which we now possess.

I submit for your information, a statement of our financial standing at the close of the last municipal year and I think you will be well satisfied that under all the circumstances and the unusual conditions of war and weather, business was well conducted by the city council of last year.

FINANCIAL STATEMENT

A rate of taxation is based upon the amount of money necessary to be raised to meet fixed charges and current expenses of the city for the whole municipal year. Estimates are made of the sums needed with which to pay the running expenses in the several departments, and to pay interest in temporary loans and municipal bonds and pay maturing bonds or obligations, and to pay state and county taxes. Upon such estimates the tax rate for last year was fixed at 2.70 or \$27.00 on \$1000 of property. The rate was unusually high because of estimated increase in expenses. The rate of increase was \$4.00 on \$1000. higher than the rate of the previous year. Why was it considered necessary?

The increase in State taxes was (a 23% increase).....	\$28,717 51
The increase in county taxes was (a 50% increase).....	16,319 64
For a new school house in ward three (Our increase in tax rate was but 14%	30,000 00
	<hr/>
These items alone amount to.....	\$75,035 15

or three-fourths of the amount that would be raised by the increase in the tax rate, and in addition to those items was the increase in the salaries of the school teachers, wages of laborers, and policemen and firemen and others, and the increase in cost of all materials and supplies.

What was done by the administration of last year? First, all bills against the city so far as known (and they were called in by advertisement in the daily papers) were paid. By the exercise of strict economy during the year we were able to do this and have the following in reserve for use for the ensuing year:

Unexpended balance for the new school building.....	\$21,529 56
To pay for the increased insurance upon school buildings.....	4,000 00
To pay for the police patrol wagon (new).....	3,200 00
Balance for the moth extermination fund.....	382 13
By a new provision of the city ordinances, the surplus of the water department.....	29,111 69
funds remaining after paying all running expenses and sink- ing fund addition, are set aside as a contingent fund for the sole use of the department, and such surplus is	4,606 12
and we shall have approximately (the exact amount cannot be given just now) a cash balance of.....	13,000 00
In addition to this we were able to pay back to the sink- ing fund the amount due to it, by borrowing several years ago, or.....	20,000 00
For the coming year there will be maturing which we must pay, municipal bonds for.....	10,000 00
and the balance of the cost for the new school house, (\$30,000.00 appropriated last year).....	30,000 00

and further estimates for natural increases in the cost of operating materials and supplies and contingencies.

CITY'S BORROWING CAPACITY

When I came back into this office as your chief magistrate, the conditions of affairs was such that the city was financially over-the-top, and could not borrow a cent on its treasury notes, or make a loan that was not to be included in the taxes for the year. Today it has a borrowing capacity of \$70,000.00, not counting the sum of \$111,648.68 now in the sinking fund.

For days back "Boost Bangor" has been the cry of those active in the movement for a new chamber of commerce, and one of the material helps in boosting would seem to be the ability to show to the outside world that the credit of the city of Bangor as a municipal corporation is sound and ample for all needs.

Banks do not recognize the sinking fund as a fund affecting the city's credit by increasing its borrowing capacity, but we have the money, and money talks, and with it we could buy and retire over \$111,000 worth of our own bonds, or invest that amount in securities allowable by our water loan Act of the Legislature.

The city of Portland has a committee on the reduction of the city debt, which has charge of such funds, and under the provisions of their city ordinances the committee is authorized to lend, on interest, to the city treasurer, any amount in its hands which may not be immediately needed for the purchase or redemption of municipal debt.

STREETS, A PROBLEM

In commenting upon our public affairs about the first thing that any one mentions, is the condition of the streets and high-

ways, and invariably the remarks are filled with severe criticism, never with commendation, always demanding improvements and better streets, but never suggesting what to do or how to do it. It is a hard problem in a city like this, and the man who could solve it satisfactorily would be blessed by the whole community. Natural conditions in Bangor present powerful obstacles and hindrances to the maintenance of good streets, as for instance, the abundance of shade trees which prevent quick drying after rains, and the soft condition allowing them to become deeply rutted. The weather too has much to do with the wearing of ordinary dirt roads in this automobile age. A continuously wet season like that of last year, with heavy auto travel, makes it almost impossible to maintain a smooth road. There are a few things in the line of improvement which I would like to see adopted and carried out. The first and it seems to me the most important method of maintaining good surfaces upon our principal and most traveled streets and thoroughfares, would be efficient patrol system, and by efficient I mean big enough and active enough to produce the desired results. I fully believe that such a system could be worked out and that it would keep the streets in comfortably good condition for easy and safe travel and create greater improvement over existing conditions, at less cost, than any other one thing in street work.

In years past we have constructed quite a lot of supposed-to-be permanent highway, but it appears that once completed it was concluded that no more expenditures would ever be required upon such a piece of road, and as a result of neglect some of it is no better than any of the ordinary dirt roads. On Main Street, a long needed and finally completed stretch of permanent construction was finished last year, and is a fine piece of road, but it will wear out as any road will in time. It will need constant watching, and whenever a depression or defect occurs, it

should be repaired without delay. So also with the rest of our streets. By a patrol system defects are discovered and can be remedied at little cost, while if neglected the failure to repair subsequently involves expensive reconstruction. I have recommended such a system once before, and I here renew it and urge its adoption.

For the coming year, I must request you to be especially careful in considering propositions for new permanent work on highways. Undoubtedly it will be found necessary to make some repairs on those already constructed, and whatever else is *necessary* to be done we must do.

Much could be done to avoid or remove the causes of much criticism made by visitors as well as by our own people, who remark upon the neglected and untidy condition of our thoroughfares. Civic pride should lead the residents upon the several streets to keep the sidewalks and gutters and even the travelled portion of the ways in front of their premises, free from litter and rubbish, and the grass plots along the edges of the walks neatly trimmed and the trimmings removed and not thrown into the street. It would seem to me wise to make inquiry and ascertain if it is competent for the city, under existing authority, to make a law requiring occupants of premises abutting on the public streets or private ways, to keep the streets and sidewalks well groomed in front of their residences or places of business, and if it can be done, to enact such an ordinance, but if there is no present power to do so, then secure the authority through the legislature.

PARKING AUTOS

Last year I called attention to the necessity of relieving some of our principal streets of the congestion caused by the constant

standing therein of automobiles and taxicabs, for indefinite periods of time. The matter was presented to and referred by, the last city council, but no report was made or action taken thereon. Highways are constructed for use by the public for travel only, and no other use is lawful unless specially authorized by the legislature of the State. I believe that any vehicle standing in a street for an unreasonable length of time, unless there by lawful occupancy, creates an obstruction for which the city would be liable in damages, as for a defect, in case of accident. I suggest that early attention be given to the subject matter, and some remedy provided.

COLLECTING BACK TAXES

Again, last year I made certain suggestions relating to the collection of taxes and other outstanding accounts due to the city. I wish to renew my recommendation then made, that some regulation and requirement be adopted for the commitment of such accounts to the city solicitor for collection, as soon as a reasonable time has elapsed after demand and failure to pay. Many dollars have been lost to the city by reason of neglect to enforce payment. It is no greater hardship for a citizen to be obliged to pay an account due to the city, than it is for him to pay any other bill which he owes. For various causes many accounts, which have long been carried on the financial records of the city as assets, were charged off last year as uncollectable, while many others were secured by diligent effort at collecting.

WHEN THE SOLDIERS WENT AWAY

Many times during the last year, young men of our city who had enlisted and been accepted for military or naval service to

our country, assembled in companies or squads, for departure to the camps where they were to enter upon schooling and training in the duties of the soldier and the science of war, and in the early mornings on those days of departure, the city council turned out in a body to escort them to the station. Each time, voluntarily and without charge for services, the escort was headed by the full membership of that highly efficient and notable musical organization, our own Bangor Band. I take this opportunity to extend to them for the people, my sincere thanks and high appreciation for the services rendered, and I most emphatically commend that organization to you as an institution worthy of public encouragement and support in much larger degree than it has been customary to give. And later in the season, when it first began to make public appearances, the Bangor High School Cadet Band, (with the high school cadets), joined with us in this duty, voluntarily and with a most pleasing and surprising exhibition of musical and martial excellence; and they are with us now, participating in the ceremonies of today, with the same spirit of manly generosity and courtesy.

Acts like these, in times like these, are what are needed to awaken and arouse the spirit of Patriotism which lives, but sometimes sleeps, in the breast of every true American.

The horrors of the appalling war upon which our country has entered, has not been brought directly home to us—yet. We are far removed from the scenes of conflict and it is almost impossible for us to conceive or realize what it actually is; but this we do know—that our boys are there, or will be there, 500 of them now, and more and more to follow, and what and when the end will be no one can foretell. We cannot all go. The aged and physically unfit, the fathers and mothers and wives and all others exempt from military duty for various reasons, remain; but here,

at home, day after day, each must do his or her part in whatever way it can best be accomplished, to encourage, support and sustain those boys who fight and perhaps may die, for us, and home, and country.

JOHN F. WOODMAN, Mayor.



Report of the City Auditor



Report of the City Auditor

May 13, 1918.

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

SIRS:

I herewith submit the Annual Report of the receipts and expenditures of the City of Bangor for the fiscal year ended February 28, 1918; also the financial condition of the City as at that date.

The financial condition of the City is in better shape at the close of the year than it has been for many years. His Honor, the Mayor, and the members of the City Council are to be congratulated on the fine showing.

A year ago the Surplus of General Revenue	
Assets over Liabilities was.....	\$48,266 41
At the close of this fiscal year the balance is.....	69,108 78
	<hr/>
A gain of.....	\$20,842 37

The outstanding debt of the Water Loan Sinking Fund due from the City has been taken care of by appropriation. That

amount was appropriated and Treasury Warrant issued for \$20,000.00.

By looking at Balance Sheet "A" you will see the following reserves were set up against last year's operations:

Reserve for New Police Automobile.....	\$ 3,200 00	
Reserve for Additional School Insurance.....	4,000 00	
Reserve for New School House.....	21,529 56	
Reserve for Moth Extermination.....	382 13	
	<hr/>	
Total.....		\$29,111 69

Besides these are the following reserves:

Reserve for replacement of barn and contents lost by fire at City Farm.....	\$9,606 64
Reserve for Water Coupons, overdue.....	370 00
Reserve for Municipal Coupons, overdue.....	220 00
Reserve for Water Dept. Emergency Fund	4,606 12

During the year \$10,000.00 in Water Serial Bonds were retired being the last of the \$70,000.00 raised to build the filter plant at the Water Works. Also \$10,000.00 in Municipal Serial Bonds matured and were paid.

The outstanding Water Bonds at the present time amount to.....	\$500,000 00
Outstanding Municipal Bonds.....	680,000 00

The Water Department has a sinking fund of \$111,648.68 and with the additions provided each year by appropriation by the City Council, will practically take care of the \$500,000.00 in bonds due July 1, 1935.

Three issues of the Municipal Bonds are in serial form and two in time bonds. See Schedule 4.

There has been no inventory of the City property for the fiscal year, filed with the City Council as required by ordinance. This should be done every year.

The Cash in Treasurer's hands and bank	
balances, February 28, 1917 was.....	\$ 56,582 65
Receipts during year (as per Cash Book).....	1,215,140 56
Receipts from Trust Funds.....	281 34
	<hr/>
Total.....	\$1,272,004 55
Paid Treasury Warrants.....	1,181,659 72
	<hr/>
Balance.....	\$90,344 83

This Balance consists of:

Operating Cash.....	\$86,744 92	
Trust Fund Cash.....	3,599 91	
	<hr/>	\$90,344 83

Cash on hand and Bank Balances are as follows:

Merrill Trust Co., Bangor.....	\$14,426 51	
Eastern Trust & Banking Co., Bangor	11,052 35	
First National Bank, Bangor.....	39,394 26	
Merchants National Bank, Bangor.....	6,218 71	
Merchants National Bank, Boston.....	16,689 86	
Deposit made up (to be deposited).....	1,567 14	
Petty Cash.....	1,000 00	
	<hr/>	
Total.....		\$90,348 83

Cash account over, \$4.00.

I would suggest that the members of the City Government examine the vaults in City Hall and see whether it would not be

advisable to have them made fire proof, as there are so many valuable records stored in them, that, in case of a bad fire, would be destroyed and never could be replaced.

I wish to express appreciation to His Honor, the Mayor, and the members of the City Council, also to the various committees for their co-operation in last year's work.

Respectfully submitted,

L. C. EVERETT,
City Auditor.

REVENUE EXPENDITURES
For the Fiscal Year Ended February 28, 1918

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GENERAL GOVERNMENT

Aldermen and Council:

Salary.....	\$125 00
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General Expenses:

Printing:

Bacon, John H.....	\$10 00
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Supplies:

Dillingham, E. F., record book, pins.....	\$3 05	
Sullivan, Dan T., blotting and ink.....	4 50	
	7 55	

All Other:

Bangor Publishing Co., advertising	\$23 61	
Bass, J. P. Publishing Co., advertising ..	5 32	
Woodman, John F., expense to Augusta	25 65	
	54 58	

Total general expenses.....	\$72 13
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1918]

CITY OF BANGOR

21

Mayor:

Salary.....		\$1,500 00
General Expenses:		
Telephone:		
New England Tel. & Tel. Co.....		\$14 62
Supplies:		
Kennebec Journal Co., auto lists.....	\$5 00	
Sullivan, Dan T., paper, pencils, etc.....	6 41	
Supply Dept., paste, clips, etc.....	42	
	—————	11 83
Printing:		
Bangor Co-Operative Ptg. Co., letter- heads and envelopes.....	\$15 75	
Glass, Chas. H., Co.	11 00	
	—————	26 75
Clerk:		
Hennessy, Kathleen.....		335 00
Postage:		
Woodman, John F. Mayor, stamps.....		18 03
Furniture Repairs:		
Chandler & Co., upholstering chairs.....		30 23
All Other:		
Woodman, John F., Justice of Peace Commission.....		5 00
	—————	
Total general expenses.....		\$441 46

Auditor and Auditing:

Salaries and Wages:

Auditor.....	\$1,500 00	
Assistant.....	817 50	
	<hr/>	
Total Salaries and Wages.....		\$2,317 50

General Expenses:

Office Supplies:

American Express Co., express on analysis paper.....	\$ 67	
Ault & Wiborg Co., carbon paper.....	2 94	
Burr, The T. W., Ptg. & Adv. Co., envelopes.....	5 25	
Burroughs Adding Machine Co., adding machine ribbon.....	75	
Deatly, Arthur G. & Co., Inc., analysis paper.....	9 75	
Sullivan, Dan T., pens, paper, guides.....	12 38	
Supply Dept., vouchers, pads, etc.....	14 70	
	<hr/>	\$46 44

Postage:

Bangor Post Office, stamps.....	\$10 00	
Everett, L. C., Auditor, stamps.....	5 00	
	<hr/>	15 00

Printing:

Burr, The T. W., Ptg. & Adv. Co., monthly reports and forms.....	520 60	
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Bond:

Somers, L. W. Co.....	20 00	
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Annual Report:

Burr, The T. W., Ptg. & Adv. Co.....	78 98	
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Auditor and Auditing—Continued

All Other:

Burroughs Adding Machine Co., repairs on machine.....	\$ 3 20	
Underwood Typewriter Co., repairs to typewriter.....	10 05	
	<hr/>	13 25

Total general expenses.....		<hr/>	\$694 27
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Treasurer and Collector:

Salaries and Wages:

Treasurer and Collector.....	\$2,000 00
Assistant.....	926 67
Clerk.....	591 25

Total salaries and wages.....	<hr/>	\$3,517 92
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General Expenses:

Office Supplies:

American Express Co., express on enve- lopes.....	\$2 41
Ault & Wiborg, carbon paper.....	8 58
Bangor Rubber Stamp Co., rubber stamps.....	1 55
Cushman & Denison Mfg. Co., pad for dater, ink.....	70
Dillingham, E. F., journal, ink, pens, etc.	42 60
Dubois, H. W. & Co., coupons for type- writer ribbons.....	4 50
Earle, W. H., rubber stamps.....	1 50
Glass, Chas. H. Co., binders.....	18 60
Haskell, Geo. V. L., bases for receipting stamp.....	1 60

Treasurer and Collector—Continued

Jones, Leslie E., typewriter ribbons.....	3 50	
Maine Register, register.....	2 50	
Neidich Process Co., typewriter ribbons..	6 18	
Standard Envelope Sealer Co., envelope sealer.....	25 44	
Sullivan, Dan T., ink, pencils, etc.....	16 08	
Supply Dept., vouchers, requisition books.....	8 32	
Transo Envelope Co., envelopes.....	27 84	
	<hr/>	171 90
Postage:		
Bangor Post Office, stamps and stamped envelopes.....		502 45
Printing:		
Bacon, John H., tax deeds, notices, etc..	\$153 00	
Bangor Co-Operative Ptg. Co., list of unpaid taxes, etc.....	147 00	
Burr, The T. W., Ptg. & Adv. Co., cards, envelopes, blanks, etc.....	81 20	
	<hr/>	381 20
Bonds:		
Blake, Barrows & Brown.....		100 00
Advertising:		
Bangor Publishing Co., temporary loan..	\$26 76	
Bass, J. P., Publishing Co., temporary loan and tax collector's notice.....	53 25	
Clifford, Fred H., ad. for stenographer....	2 00	
	<hr/>	82 01
Deputy Collector:		
Clement, Olin L.....	\$811 04	
Wentworth, H. A.....	57 00	
	<hr/>	868 04

Treasurer and Collector—Continued

Office Furniture and Fixtures:

Dillingham, E. F., filing cabinet and numbering machine.....	\$ 38 50	
Jones, Leslie E., chair.....	8 75	
Multipost Co., stamp affixer.....	15 00	
Todd Protectograph Co., protectograph	53 90	
		116 15

Telephone:

New England Tel. & Tel. Co.....		6 40
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All Other:

American Express Co., express.....	\$ 1 95	
Hall, Edwin O., framing map.....	3 00	
Hitchcock, R. H., repairing adding machine.....	2 00	
Jones, Leslie E., repairing typewriter.....	5 85	
Peerless Key Co., keys, rubber feet, etc., for typewriter.....	9 00	
Registry of Deeds, registering deed	50	
		22 30

Total general expenses.....		\$2,250 45
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Assessors:

Salaries and Wages:

Assessors.....		3,600 00
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Assistant Assessors:

Cohen, Max, Ward 1.....	\$90 00	
Moriarty, Matthew H., Ward 6.....	70 00	
Palmer, Augustine, Ward 4.....	28 75	
Runnells, H. Percy, Ward 3.....	72 50	
Small, Frank H., Ward 7.....	75 00	
Welch, Roger M., Ward 2.....	77 50	

Assessors—Continued

White, Henry O., Ward 5.....	77 50	
Wilkins, Frederick L., Ward 4.....	80 00	
		571 25
Clerk.....		525 00

Enrollment Officers:

Altman, Aaron, Ward 1.....	\$47 50	
Blanchard, Cyrus C., Ward 4.....	47 50	
Currier, Chas. M., Ward 5.....	30 00	
Flynn, Wm., Ward 2.....	40 00	
Lavoie, Philip L., Ward 7.....	47 50	
Seavey, H. E., Ward 3.....	40 00	
Thoms, H. B., Ward 6.....	32 50	
		285 00

Total salaries and wages.....	\$4,981 25
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General Expenses:

Office Supplies:

Dillingham, E. F., revised statutes	\$ 3 50	
Donham, A. G., Maine Register.....	2 50	
Glass, Chas. H. Co., paper, cards, etc.....	42 60	
Jones, Leslie E., inventory, tax books, carbon paper.....	140 75	
Loring, Short & Harmon, pocket militia books.....	6 00	
Sullivan, Dan T., carbon, ribbons, etc.....	18 46	
Supply Dept., scratch pads, etc.....	4 65	
Sweet, Chas. F., tax manual.....	2 00	
		\$220 46

Telephone:

New England Tel. & Tel. Co.	50 70
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Assessors—Continued

Postage:

Glass, Chas. H. Co., stamped envelopes..	\$24 50	
Sullivan, Dan T., stamps.....	2 00	
	<u> </u>	26 50

Printing:

Glass, Chas. H. Co., abatements, cards, etc.....		61 35
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Advertising:

Bangor Publishing Co., assessors' notices	\$23 91	
Bass, J. P., Publishing Co., assessors' notices.....	22 50	
	<u> </u>	46 41

Office Furniture and Fixtures:

Derby, G. B. Co., trucking cabinet.....	\$ 1 00	
Eastern Steamship Corp., freight on cabinet.....	1 49	
Library Bureau, filing cabinet.....	83 51	
	<u> </u>	86 00

Credit: Roll top desk.....	18 00	
	<u> </u>	68 00

All Other:

Dole Co., repairs to lamp, etc.....	\$ 4 23	
Jones, Leslie E., repairs to typewriter.....	9 45	
Kane, Edward F., teams.....	22 50	
Nelson, G. G., subscription to Banker & Tradesman	10 00	
Peerless Key Co., twirlers for typewriter	1 00	
	<u> </u>	47 18

Total general expenses.....		<u> </u>	\$520 60
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Law:

Salary.....	\$600 00
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General Expenses:

Witness Fees:

Barker, Isaac.....	\$4 12
Cram, Henry.....	4 12
Ellis, Chas.....	4 12
Gerry, Wilbur.....	2 12
Moulton, Frank H.....	4 12
O'Connor, W. B.....	6 00
Pay Roll.....	6 36
Smyth, P. H.....	2 12
Sullivan, Patrick.....	4 12
Withee, Simeon.....	4 12
	<hr/>
	\$41 32

Expenses Out of City:

Gillin, James, Augusta and Portland.....	87 15
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Printing:

Burr, The T. W., Ptg. & Adv. Co., Law case—City of Bangor vs. Ridley.....	30 00
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All Other:

Chalmers Studio, photographs.....	\$ 6 00
Lovett, Chas. W., looking up evidence, making reports—Pressey case.....	25 00
Ryder & Simpson, legal advice regarding temporary loan.....	10 00
Wentworth, H. A., labor on account of suit of City vs. J. F. Spellman	20 00
Barrows, C. O., transcript evidence, City vs. F. C. Ridley.....	3 75
	<hr/>
	64 75

Law—Continued:

Referees Sheep Killed by Dogs:

Bartlett, Lester F.....	\$ 2 50	
Dunning, James A.....	2 50	
Durgin, Curtis.....	2 50	
Hamm, Louis H.....	2 50	
Firth, Miss Elizabeth.....	2 50	
Tefft, Benj. F.....	10 00	
		22 50

Total general expenses..... 245 72

City Clerk:

Salaries Fees and Wages:

Fees:

Brett, Victor.....	\$ 196 45	
Salary of Clerk.....	1,000 00	
Salary of Assistant.....	629 00	

Total salaries, fees and wages \$1,825 45

General Expenses:

Office Supplies:

Ault & Wiborg, carbon paper.....	\$ 5 88	
Brett, Victor, rubber stamps, etc.....	3 85	
Burr, The T. W., Ptg. & Adv. Co., postal cards and printing, etc.....	8 20	
Dillingham, E. F., acts and resolves.....	4 00	
Donham, A. G., Maine Register.....	2 50	
Sullivan, Dan T., paper, pens, etc.....	24 12	
Supply Dept., scratch pads, etc.....	1 05	
		49 60

City Clerk—Continued

Advertising:

Bangor Publishing Co.....	\$10 45	
Bass, J. P. Publishing Co.....	3 50	
	<hr/>	13 95

Postage:

Brett, Victor.....		57 74
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Printing:

Burr, The T. W., Ptg. & Adv. Co., printing blanks.....		8 74
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Furniture and Fixtures:

Brett, Victor, typewriter cabinet	\$ 5 00	
Underwood Typewriter Co., typewriter..	52 25	
	<hr/>	57 25

All Other:

American City, The, subscription to paper.....	6 00	
Brett, Victor, express, etc.....	6 24	
Burr, The T. W., Ptg. & Adv. Co., wrapping annual reports.....	9 68	
Dillingham, E. F., binding 2 volumes.....	29 50	
New England Tel. & Tel. Co.....	2 05	
Western Union Telegraph Co., clock rent	12 00	
	<hr/>	65 47

Total general expenses.....		<hr/>	\$252 76
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Department of Supplies:

General Expenses:

Salary of Clerk.....		\$677 00
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Telephone:

New England Tel. & Tel. Co.....		45 00
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Department of Supplies—Continued

Printing:

Burr, The T. W. Ptg. & Adv. Co., letter- heads.....	\$ 4 21	
Thompson, L. W., vouchers.....	56 00	
	<hr/>	
	\$59 21	
Credit: Transferred to Other Depts.	56 00	
	<hr/>	4 21

Office Supplies:

Ault & Wiborg, carbon paper.....	\$11 76	
Libby, Carl L., typewriter ribbons.....	1 50	
Sullivan, Dan T., ink, pencils, etc.....	20 18	
	<hr/>	
	\$33 44	
Credit: Transferred to Other Depts.	43 33	
	<hr/>	9 89

Repairs:

Jones, Leslie E., typewriter roll.....		2 00
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Office Furniture and Fixtures:

Royal Typewriter Co., typewriter.....	46 60	
Sullivan, Dan T., numbering machine....	15 00	
	<hr/>	61 60

Postage:

Bangor Post Office, stamps.....	2 00	
Burton, Estelle, stamped envelopes.....	21 32	
	<hr/>	23 32

All Other:

Fowler Drug Co., germicide.....	1 25	
Frawley's Pharmacy, germicide and rubber bulb.....	1 65	
	<hr/>	2 90

Total general expenses.....		<hr/>	\$806 14
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Engineering:

Salaries and Wages:

City Engineer.....	\$1,350 00
Assistants.....	1,993 89
Street Engineers.....	150 00
	<hr/>
Total salaries and wages.....	\$3,493 89

General Expenses:

Office Supplies:

Bangor Co-Operative Ptg. Co., printing letterheads, envelopes, etc.....	\$15 00
Bangor Post Office, stamps.....	1 00
Burr, The T. W., Ptg. & Adv. Co., time cards.....	8 96
Cannon & Co., maps.....	6 25
Dillingham, E. F., paper, pencils, etc....	5 55
Donham, A. G., Maine Register.....	2 50
Great Northern Paper Co., blue printing	2 85
Hall, Edwin O., tracing cloth, etc.....	12 15
Haynes & Chalmers Co., lices and crayons.....	1 18
Sullivan, Dan T., record book, paper, etc.	5 20
Supply Dept., vouchers, etc.....	4 75
Times Square Bindery, binders.....	2 00
	<hr/>
	67 39

Telephone:

New England Tel. & Tel. Co.....	61 79
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Insurance:

Kirstein, Louis & Sons, compensation insurance.....	31 85
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Engineering—Continued

Street Signs:

American Express Co., express.....	\$ 7 06	
Conners, D. A., painting and lettering....	27 40	
Cutter, Leslie W., street signs.....	16 67	
Eldridge, Fred E., Co., painting.....	7 21	
Harvey Hardware Co., paint, screws, etc.	4 10	
Haynes & Chalmers Co., paint, screws, etc.....	11 62	
Ingraham-Richardson Mfg. Co., signs....	75 95	
Kane, Michael, use of teams.....	20 00	
Marston, E. B. Sign Co., lettering signs..	3 30	
Morse & Co., lumber and signs.....	24 47	
Nason, David J., express.....	90	
Pay roll, putting up signs.....	136 70	
Penobscot Machinery Co., bracket.....	4 12	
Traffic Sign & Signal Co., post signs.....	12 00	
		351 50

All Other:

American Express Co., express.....	\$ 47	
Bangor Gas Light Co., gas tubing	1 50	
Bangor Publishing Co., adv. paving Main and State Sts.....	20 58	
Bangor Savings Bank, storage rent.....	4 00	
Bass, J. P., Publishing Co., adv. grade to 13th St.....	6 00	
Cassidy, T. F., & Son, bar and sharpen- ing.....	3 15	
Engineer Record, subscription.....	5 00	
Good Roads, subscription.....	3 00	
Morse & Co., lumber, stakes.....	43 56	
		87 26

Total general expenses.....	\$599 79
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Inspector of Buildings:

Salary of Inspector.....	\$300 00
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General Expenses:

City Hall:

Blethen, Dyer & Rounds, plumbing repairs.....	\$ 65	
Haynes & Chalmers Co.....	78	
Hines, M. F., labor.....	163 00	
Maine Plumbing Co., installing radiator and repairs.....	76 39	
Morse & Co., metal ceiling-guard room..	125 00	
Patten, L. P., carpenter repairs.....	4 26	
Rice & Miller Co., paint, floor dressing....	12 34	
	<hr/>	\$382 42

City Stables:

Fairbanks Bros., repairing drain.....	\$ 75	
Haynes & Chalmers Co., glass and labor..	1 18	
Hines, M. F., labor.....	11 25	
Patten, L. P., carpenter repairs.....	68 79	
Rice & Miller Co., glass.....	60	
	<hr/>	\$82 57

Fire Station:

Babb, C. H., & Co., new tank.....	\$ 68 90
Bangor Gas Light Co., repairs.....	26 28
Blethen, Dyer & Rounds, plumbing repairs.....	5 51
Cutter, Leslie W., carpenter repairs.....	118 09
Fairbanks Bros., plumbing repairs	201 26
Haynes & Chalmers Co., material for repairs.....	75 18
Hines, M. F., labor.....	15 75
Kelley, E. F., & Sons, repairs to heating plant.....	1 00

Inspector of Buildings—Continued

Lewis, H. R., & Co., furnace.....	150 00
Patten L. P., carpenter repairs.....	475 10
Rice & Miller Co., glass.....	2 73

 \$1,139 80

Credit: Second hand furnace..... 15 00

 \$1,124 80
Electric Station:

Doughty, H. H., labor and trucking.....	\$ 7 50
Eastern Cement Co., cement.....	140 99
Haynes & Chalmers Co., nails, glass, etc.	3 77
Hines, M. F., labor.....	154 25
Largay, J. E., gravel.....	233 00
Lynch, M., & Co., lock repairs.....	3 75
Patten, L. P., carpenter repairs.....	2 52
Pay roll, retaining wall.....	602 25
Rice & Miller Co., glass, paint, etc.	5 56
Ward, John M., mason repairs.....	5 45
Woodman, C., Co., lumber.....	40 18

 \$1,199 22

Credit: Cement bags..... 6 75

 \$1,192 47
Almshouse:

Bangor Publishing Co., adv. for fire escape.....	\$ 5 25
Blethen, Dyer & Rounds, plumbirg repairs.....	116 06
Dunham-Hanson Co., glass.....	2 99
Fairbanks Bros., plumbing repairs.....	28 58
Haynes & Chalmers Co., glass and labor	3 78
Patten, L. P., carpenter repairs.....	750 93
Penobscot Machinery Co., fire escape.....	1,175 00
Rice & Miller Co., paint, etc.....	4 90
Ward, John M., mason repairs.....	34 51

 2,122 00

Inspector of Buildings—Continued

Pumps:

Conant, C. M., Co., repairs to pumps.....	\$ 43 43	
Dunning, R. B., & Co., repairs to pumps	42 33	
Hines, M. F., labor.....	230 40	
Kelley, Steven, labor.....	38 25	
Largay, J. E., gravel.....	8 00	
Towle, J. N., & Co., salt.....	1 80	
	<hr/>	364 21

Court Street Building:

Fairbanks Bros., plumbing repairs	\$ 26 17	
Haynes & Chalmers Co., material for repairs.....	9 40	
Hines, M. F., labor... ..	2 25	
Lancaster, M. H., Est., carpenter repairs	41 16	
Lynch, M., & Co., keys and repairs to locks.....	1 55	
Patten, L. P., carpenter repairs.....	39 36	
	<hr/>	119 89

Armory:

Blethen, Dyer & Rounds, plumbing repairs.....	\$ 5 20	
Hines, M. F., labor.....	13 50	
Lynch, M., & Co., keys and repairs to locks.....	2 05	
Patten, L. P., carpenter repairs.....	49 77	
Rice & Miller Co., glass.....	4 45	
	<hr/>	74 97

Police Garage:

Bragg, N. H., & Sons, angle iron.....	\$ 65	
Cutter, Leslie W.....	11 81	
Dickey, W. P., & Co., oil and pulley.....	3 15	
Fairbanks Bros., plumbing repairs.....	5 20	
Haynes & Chalmers Co., drills and rivets	47	
Hines, M. F., labor.....	33 50	
Rice & Miller Co., paint, oil, etc.....	15 09	
	<hr/>	69 87

Inspector of Buildings—Continued

General:

Harvey Hardware Co., lock.....	\$ 50	
Haynes & Chalmers Co., glass, screws, etc.....	4 90	
Hines, M. F., labor.....	59 30	
McEwen, John, putting up and taking down booths.....	7 24	
Patten, L. P., Exchange St. gate.....	9 86	
Rice & Miller Co., glass and paint.....	8 40	
Supply Dept., vouchers, etc.....	3 55	
		93 75
Total general expenses.....		\$5,626 95

Election and Registration:

Salaries and Wages:

Board of Registration:

Brennan, Michael J.	\$1,540 00	
Gleszer, Edward I.....	836 00	
Kelley, Thomas W.....	836 00	
McCarthy, Daniel F.....	160 00	
Nason, Daniel W.....	160 00	
		\$3,532 00
Election Officers.....		445 00

Clerk:

Brennan, G. G., making 7 ward books ..	\$70 00	
Brett, Victor.....	93 00	
		163 00

Total salaries and wages..... \$4,140 00

Inspector of Buildings—Continued

General Expenses:

Supplies:

Dillingham, E. F., rubber stamp.....	\$ 3 00	
Sullivan, Dan T., pens, pencils, etc.....	26 80	
	<u> </u>	\$29 80

Printing:

Bass, J. P., Publishing Co., voting lists...	\$269 40	
Burr, The T. W., Ptg. & Adv. Co., cards, envelopes, etc.....	126 32	
Glass, Chas., H. Co., ballots.....	88 25	
	<u> </u>	483 97

Cleaning Ward Rooms:

Atwood, Horace W., Ward 2.....	\$ 5 00	
Hines, M. F., Wards 1 and 4.....	10 00	
Kerr, John H., Ward 7.....	5 00	
Mooney, Thomas F., Ward 3.....	5 00	
Rogers, Fred M., Ward 5.....	5 00	
	<u> </u>	30 00

Making Up Lists:

Brett, Victor.....		84 00
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Advertising:

Bangor Publishing Co.....	\$126 14	
Bass, J. P., Publishing Co.....	134 33	
	<u> </u>	260 47

Polling Booths:

Bangor & Aroostook R. R., Co. Ward 6 polling room.....	\$30 00	
Bartlett, C. H., & Ara Warren, do.....	15 00	
Hines, M. F., putting up booths.....	7 00	
	<u> </u>	52 00

Inspector of Buildings—Continued

All Other:

Crossman, W. B., wood.....	\$ 6 00	
Dickey, W. P. & Co., padlocks for boxes	3 30	
Dillingham, E. F., bdg. voters list.....	1 20	
Hennessy, Kathleen, wood.....	2 00	
Hines, M. F., trucking.....	21 75	
Ridley, F. C., Baggage Transfer Co., trucking.....	2 50	
		36 75

Total general expenses.....	\$976 99
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City Hall:

Salaries and Wages:

Janitors.....	\$3,270 50	
Cleaners.....	420 00	
		3,690 50

Total salaries and wages.....	\$3,690 50
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General Expenses:

Light:

Bangor Gas Light Co., gas.....	\$93 66
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Fuel:

Bacon & Robinson Co., coal.....	\$320 70	
Connor Coal & Wood Co., coal and wood	702 85	
Hincks Coal Co., coal.....	323 25	
Rice, John H. Co., coal.....	432 73	
Stickney & Babcock Coal Co., coal	327 25	
		2,106 78

Moving Seats:

Pay Roll.....	\$276 55	
Credit.....	303 00	
		26 45

City Hall—Continued

Telephone:

New England Tel. & Tel. Co.....	36 10
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Supplies:

Adams Dry Goods Co., drinking cups, bunting.....	\$52 32
American Express Co., express.....	87
Andrews Paper Co., drinking cups	45 00
Bangor Broom Co., brooms.....	7 00
Bangor Ice Co., ice.....	13 13
Bowdlear, W. H., Co., floor wax.....	24 12
Bradbury, C. E., trucking T. paper	50
Burton, P. J., cleaner.....	1 00
Columbia Towel Supply Co., towels.....	36 75
Cudahy Packing Co., soap polish.....	15 00
Dickey, W. P. & Co., step ladder, water cooler, etc.....	13 35
Dunham-Hanson Co., ash cans, pails, etc.	36 75
Dunning, R. B. & Co., baskets	3 60
Eastern Steamship Corp., freight.....	4 23
Getchell Bros., ice.....	72 38
Harvey Hardware Co., floor brush.....	3 92
Haynes & Chalmers Co., brush.....	1 08
Hayward, Chas. & Co., soap.....	5 65
Johnson, Geo. T. Co., T. paper.....	80 00
Lord Bros., meal.....	1 30
Maine Central R. R. Co., freight	2 41
Masury-Young Co., nodusto.....	75 96
Morse & Co., screen cloth, monkey wrench	1 74
Savage, L. W., matches.....	5 00
Sawyer Boot & Shoe Co., killitol.....	1 50
School Dept., tabo.....	1 25
Snow & Nealley Co., rope.....	7 83
Sweet, Caldwell, Co., feather dusters, floor wax.....	10 50
Vose, P. H., Co., dish mop, dust mop.....	1 35

City Hall—Continued

West Disinfecting Co., disinfectants.....	54 70	
Wood & Bishop Co., wash boiler and sprinkler.....	2 87	
	<hr/>	583 06

Repairs:

Berry & Smith, repairing flag.....	\$ 4 40
Blethen, Dyer & Rounds, plumbing repairs.....	26 99
Chandler, & Co., matting, repairing chairs.....	126 26
Cutter, Leslie W., repairs.....	2 35
Dole Co., The, lamps, repairs.....	4 08
Dunham-Hanson Co., material for repairs	3 99
Dunning, R. B., & Co., lime for boiler.....	1 10
Eldridge, Fred E., Co., painting repairs..	20 84
Electric Dept., lamps and electrical repairs.....	125 25
Fairbanks Bros., repairing gutters, etc...	80 59
Harvey Hardware Co., material for repairs.....	7 03
Hines, M. F., labor.....	22 00
Hutchins, I. M., Co., clock repairs.....	3 00
Lancaster, M. H., Est., carpenter repairs	183 96
Lynch, M., & Co., repairs to locks and keys.....	19 95
Maine Plumbing Co., plumbing repairs..	519 57
Marston, E. B., Sign Co., lettering door..	1 05
Morse & Co., screen.....	64
Mulvaney Bros., repairing flag.....	50
Nelson, Otto, Co., grille in detention room	8 42
Patten, L. P., carpenter repairs.....	154 21
Penobscot Machinery Co., retubing boiler.....	630 00
Rice & Miller Co., material for repairs....	13 25
Smith & West, repairs.....	4 32
Union Iron Works, repairs to elevator.....	94 76

City Hall—Continued

Ward, J. M., repairs to steps, etc.....	11 26	
Wood & Bishop Co., heating repairs.....	30 51	
		2,100 28

Insurance:

Blake, Barrows & Brown.....	\$64 00	
Bright, J. M.....	35 30	
		99 30

Furniture:

Pierce, H. O., piano.....		100 00
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All Other:

Bangor Cleaning Co., cleaning.....	\$ 1 54	
Bangor Publishing Co., adv. for coal.....	3 40	
Bass, J. P., Pub. Co., adv. for coal.....	6 68	
Derby, G. B., Co., trucking	85	
Estabrook's Sons, G. G., flags.....	4 00	
Hines, M. F., trucking.....	50	
Patten, L. P., taking off and putting on storm windows.....	24 30	
Stewart, Chas. M., flags.....	55 10	
		96 37

Total general expenses.....		\$5,189 10
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Truant Officer:

Salary.....		\$350 00
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PROTECTION OF PERSONS AND PROPERTY

Police Department:

Salaries and Wages:

Chief.....	\$1,350	00
Deputy Chief.....	1,198	77
Inspector.....	1,193	36
Sergeants.....	2,242	32
Captains.....	2,348	62
Auto Driver.....	905	50
Patrolmen.....	27,001	18
Specials.....	1,987	25
Total salaries and wages.....	\$38,227	00

Auto Patrol Maintenance:

Gasoline:

Bangor Motor Co.....	\$213	57
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Repairs:

Bangor Motor Co.....	\$71	15
Bragg, N. H., & Sons, pinch bar.....	1	00
Dole Co., The, lamp.....	4	68
Ebbeson, Arvid L., repairs.....	1	40
Smith, R. J., repairing cushions and curtains.....	7	00
	85	23

Tires:

Goodrich Rubber Co., The B. F.....	\$239	03
United States Tire Co., red tubes.....	7	65
	\$246	68

Supplies:

Bangor Motor Co., grease, oil	27	20
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Police Department—Continued

Use of Auto:

Bangor Motor Co.....	159 00
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All Other:

Bangor Motor Co., tire tester.....	\$1 00
Maine Central R. R. Co., freight.....	89
	<hr/>
	1 89

Total auto patrol maintenance	\$733 57
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Equipment Renewals:

Besse-Ashworth Co., shoulder straps, gloves, cap.....	\$18 85
Dunning, R. B. & Co., pails, shovel.....	10 25
Evans, D. & Co., buttons.....	15 00
Sweet, Caldwell, Co., duster	2 75
Wood & Bishop Co., pint dippers.....	2 00
	<hr/>
	\$48 85

Repairs:

Blethen, Dyer & Rounds, repairing hose	\$ 1 74
Brown & White Co., batteries and bulbs	51 84
Dole Co., The, lamps.....	4 42
Electric Department, repairs to police signal.....	62 81
Hutchings, I. M., & Co., repairs to badges.....	1 50
Kendall & Winch, repairs to revolver.....	2 31
	<hr/>
	124 62

Total repairs.....	\$173 47
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Pensions:

Bowen, John C.....	\$352 00
Davis, Thomas A.....	365 00
Jordan, Mrs. F. C.....	192 00
Loftus, Frank A.....	365 00
	<hr/>

Total pensions.....	\$1,274 00
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Police Department—Continued

Other Expenses:

Supplies:

Brown & White Co., brooms.....	\$ 1 80
Bangor Ice Co., ice.....	6 51
Burr, The T. W., Ptg. & Adv. Co., envelopes.....	2 25
Dillingham, E. F., records, inks, etc.....	14 00
Donham, A. G., Maine Register.....	2 50
Gamewell Fire Alarm Telegraph Co., register paper.....	41 99
Getchell Bros., ice.....	40 05
Gilman, L. W., fingerprint book.....	2 10
Haynes & Chalmers Co., water cooler.....	10 78
Jones, F. L. Co., crackers.....	63 05
Kennebec Journal Co., auto lists.....	5 00
Staples & Griffin, soap and matches.....	5 47
Sullivan, Dan T., ribbon, book, etc.....	1 89
Supply Dept., vouchers, pencils.....	4 63
Worrell Mfg. Co., vermingo.....	10 00

 \$212 02

Credit: Pail..... 1 00

 \$211 02

Laundry:

Bangor Steam Laundry.....	\$8 12
Porter-Parsons Co.....	2 92

 11 04

Telephone:

New England Tel. & Tel. Co.....	74 68
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Electric Signals:

Bangor Railway & Electric Co.....	43 20
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Police Department—Continued

Expenses on Trips Out of City:

Gilman, L. W.....	152 78
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Medical Attendance:

Cox, J. F., M. D.....	\$ 2 00	
Eastern Maine General Hospital.....	5 00	
Milliken, H. J., M. D.....	91 00	
Taylor, C. J., M. D.....	18 00	
	<hr/>	116 00

Repairs:

Brown & White Co., batteries.....	7 20
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Insurance:

Boyd, J. Herbert.....	\$ 40 80	
Somers, L. W., Co.	178 50	
	<hr/>	219 30

Printing:

Burr, The T. W., Ptg. & Adv. Co., letter-heads and envelopes.....	8 00
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All Other:

Derby, G. B., Co., hauling auto to garage	\$ 5 00	
Gilman, L. W., lunches, etc.....	19 52	
Reagan, James E., Law case Robert V. Elliott vs. James E. Reagan.....	62 04	
Transfer.....	02	
	<hr/>	\$86 58

Credit: Cans.....	60	
	<hr/>	85 98

Total other expenses.....	<hr/>	\$929 20
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Fire Department:

Salaries and Wages:

Chief.....	\$ 1,200 00
Day Men.....	30,022 25
Night Men.....	1,200 00
Call Men.....	10,544 89

Outside Aid:

Brewer, City of.....	\$96 00
Burr, E. O.....	4 00
	<hr/> 100 00

Total salaries and wages.....	<hr/> \$43,067 14
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Horses and Care of Same:

Hay, Straw and Shavings:

Adams, Allen, hay.....	\$ 15 08
Bangor Railway & Electric Co., freight on straw.....	5 12
Charity Dept., hay.....	254 75
Cookson, G. H., hay.....	12 07
Damon, Geo. L., hay.....	23 75
Finnigan, John, hay and straw.....	69 33
Goss, R., hay.....	12 94
Greer, J. Frank, hay.....	64 55
Hamm, E. Earl, hay, straw, shavings.....	61 64
Johrson, A. G., hay.....	19 90
Lawson-Spinney Co., straw, shavings.....	50 13
Moor, Geo. L., & Son, straw, shavings, hay.....	721 22
Patten, Wm., hay.....	20 07
Spellman, James F., & Sons, hay.....	17 21
Wilson, Herbert L., hay.....	12 81
Worster, Geo. W., straw.....	36 61
Wright, L. V., hay.....	123 78
	<hr/> \$1,520 96

Fire Department—Continued

Grain:

Hopkins, A. R., Co.....	\$ 6 55	
Milliken, James, Co.....	2,396 75	
Towle, J. Norman, & Co.....	26 50	
		2,429 80

Horse Shoeing:

Cuddy, Thomas E.....	\$ 14 15	
Grant, Asa T.....	9 10	
Leighton & Leland.....	165 10	
Leighton & Smith.....	127 30	
McKenney, E.....	2 50	
Smith & Hurlbert.....	187 70	
White & Winchester.....	151 85	
		657 70

Veterinary Surgeon:

Dwinal, C. F., M. D. V.....	\$ 5 00	
Murch, Alfred L., M. D. V.....	18 40	
Strout, M. E., D. V. S.....	5 00	
		28 40

Prescription:

American Express Co., express	\$ 48	
Bragg, N. H., & Sons, ointment.....	1 00	
Curtis & Tupper.....	7 00	
Lesure's, Dr. J. G.....	6 00	
Priest, H. K.....	43 45	
Sweet, Caldwell, Co.....	40	
		58 33

Use of Horses:

Green, J. Frank, Oct. 1-6.....	6 00
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Horses:

Wiley, M., & Son.....	125 00
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Fire Department—Continued

All Other:

Bragg, N. H., & Sons, hoof expanders.....	\$ 2 00
Dugan, P. T., & Co., felt swabs.....	1 25
Glynn, M. J., leathers.....	1 00
Heal, L. G., hame repairs.....	65
Parkhurst, J. F., & Son Co., roto salt.....	1 50
Sweet, Caldwell, Co.....	7 50
Utterback-Gleason Co., roto salt.....	13 70
Wescott, Geo. I., & Son, salt.....	2 52

 \$30 12

Credit: Dressing..... 44 00

 13 88

 Total Horses and care of same..... \$4,812 31

Fuel and Light:

Fuel:

Bacon & Robinson Co., coal.....	\$606 42
Connor Coal & Wood Co., coal and wood	91 00
Crossman, W. B., wood.....	5 00
Hincks Coal Co., coal.....	275 31
Maine Central R. R. Co., freight on coal	17 00
Metropolitan Coal Co., coal.....	61 20
Morse & Co., wood.....	3 00
Rice, John Co., coal.....	483 27
Standard Oil Co., of N. Y., oil.....	6 00
Stickney & Babcock Coal Co., coal.....	796 18
Sweet, Caldwell, Co., lighting powders and tubes.....	7 50

 2,351 88

Fire Department—Continued

Light:

Bangor Gas Light Co., gas.....	\$276 92	
Standard Oil Co. of N. Y., k. oil.....	41 50	
		318 42

Total fuel and light.....	\$2,670 30
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Auto Apparatus Maintenance:

Gasoline:

Standard Oil Co. of N. Y.....	212 50
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Supplies:

American Express Co., express on oil.....	\$ 95	
Bragg, N. H., & Sons, radiator comp.....	1 50	
Darling Automobile Co., oil.....	5 83	
Knowles & Dow Co., oil.....	1 40	
Rice & Miller Co., grease, oil.....	11 70	
Seagrave Co., The, oilsum.....	36 05	
Sweet, Caldwell, Co., muriatic acid.....	20	
		57 63

Repairs:

American Express Co., express.....	\$ 5 56	
Atlantic Express Co., express.....	2 57	
Bailey, James, Co., morelite lenz.....	2 82	
Bangor Motor Co., welding, etc.....	1 95	
Bragg, N. H., & Sons, material for repairs	5 54	
Eastern Steamship Corp., freight.....	1 62	
Dickey, W. P., & Co., sheet brass.....	13	
Kelley, E. F., & Sons, repairs.....	1 50	
Knowles & Dow Co., repairs.....	54 18	
McLaughlin's Garage.....	186 02	
Rice & Miller Co., chains, etc.....	18 11	
Seagrave Co., The, material for repairs..	100 55	
Utterback-Gleason Co., patches.....	40	
		380 95

Fire Department—Continued

Tires:

Bailey, James, Co.....	\$188 05	
Rice & Miller Co.....	5 53	
		<u>193 58</u>

All Other:

Bailey, James, Co., tire cover.....	\$1 50	
Knowles & Dow Co., bumper, tire tester, etc.....	8 00	
Marston, E. B., Sign Co., numbering coats.....	30	
Utterback-Gleason Co., chamois.....	3 00	
		<u>12 80</u>

Total auto apparatus maintenance	857 46
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Equipment Renewals and Repairs:

Equipment Renewals:

Adams Dry Goods Co., springs, mattress- es, etc.....	\$ 58 38
American Express Co., express.....	1 49
American LaFrance Fire Engine Co., badges, etc.....	63 75
Bragg, N. H., & Sons, crow bar, drills.....	1 89
Brown & White Co., stable brooms.....	10 50
Chandler & Co., cuspidor mats.....	75
Dunham-Hanson Co., pails and dusters..	7 95
Dunning, R. B. & Co., pails, shovels, etc.	8 31
Eastern Steamship Corp., express.....	45
Electric Dept., lamps.....	61 81
Ellis, M. F., & Co., mops.....	24 00
Hardy, J. M., coats, etc.....	108 00
Haynes & Chalmers Co., lanterns, axes, etc.....	6 94
Imperial Brush Co., sponges, chamois....	15 14
Largay, W. J., Co., buttons.....	2 88

Fire Department—Continued

Leavitt, Eben, sheets, pillow slips, etc.....	26 67
Lyon, C. A., & Co., linoleum.....	1 63
Mulvaney Bros., car vas covers.....	13 63
Ryar, Frank, sweat pads.....	2 75
Schwartz' Sons, M., hose.....	12 45
Snow & Nealley Co., rope and hammer handle.....	4 65
Sweet, Caldwell, Co., acid, etc.....	15 95
Utterback-Gleason Co., harness renewals	25 60
Wentworth, Fred H., caps.....	55 73
Wescott, Geo. I., & Son, brooms.....	3 71

535 01

Repairs:

American Express Co., express.....	\$ 1 07
American LaFrance Fire Engine Co., steamer repairs.....	20 30
Bragg, N. H., & Sons, material for repairs	8 52
Cutter, Leslie W., repairs on carts, etc...	15 29
Dickey, W. P., & Co., paint, varnish.....	6 01
Dole Co., The, batteries.....	2 12
Dugan, P. T., & Co., rubber cement.....	2 00
Dunham-Hanson Co., material for repairs.....	7 85
Dunning, R. B., & Co., material for repairs.....	21 48
Electric Dept., electrical repairs.....	21 43
Fessenden, C. P., wagon repairs.....	2 50
Glynn, M. J., repairing coats.....	60
Glynn Shoe Repairing Co., repairing coats.....	15 55
Hardy, J. M., snaps.....	16 50
Haynes & Chalmers Co., material for repairs.....	31 70
Heal, L. G., wagon repairs.....	51 09
Kelley, E. F. & Sons, ladder repairs	4 20
Knowles, Herbert, painting.....	8 50

Fire Department—Continued

Mulvaney Bros., repairing canvas cover..	1 25	
Penobscot Machinery Co., steamer repairs.....	19 28	
Pfaff, Adolf, steamer repairs.....	35	
Rice & Miller Co., chains.....	2 00	
Ryan, Frank, repairing harness.....	6 50	
Schwartz' Sons, M., round belt.....	59	
Shannon & Carver, repairs to carts.....	110 32	
Snow & Nealley Co., rope clips.....	36	
Utterback-Gleason Co., harness repairs..	76 91	
	<hr/>	454 27

New Equipment:

Eureka Fire Hose Mfg. Co., hose	350 00
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All Other:

Dickey, W. P., & Co., window cord.....	\$4 71	
Utterback-Gleason Co., harness soap.....	3 25	
Wescott, Geo. I., & Son, bluing.....	2 55	
	<hr/>	10 51

Total equipment renewals and repairs	<hr/>	\$1,349 79
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Other Expenses:**Laundry:**

Bangor Steam Laundry.....	\$106 17	
Columbia Towel Supply Co.....	67 75	
New Franklin Laundry.....	7 54	
Porter-Parsons Co.....	29 79	
	<hr/>	\$211 25

Telephone:

New England Tel. & Tel. Co.....	261 40
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Fire Department—Continued

Repairs:

Babb, C. H., & Co., repairs for furnace....	\$ 1 00	
Berry & Smith, repairing flag.....	45	
Chandler & Co., linoleum	42 00	
Dunning, R. B. & Co., plumbing repairs..	35	
Morse & Co., glass, labor.....	15 13	
Patten, L. P., repairs.....	5 07	
		64 00

Insurance:

Baker & Hodge.....	\$12 04	
Elake, Barrows & Brown.....	33 00	
Boyd, J. Herbert.....	46 90	
Bright, J. M.....	44 00	
Curran W. F., Co.	60 48	
Gallagher, Hugh T.....	37 60	
Kirstein, Louis & Sons.....	65 36	
McClure, J. W., & Son.....	37 60	
Palmer, W. W.....	40 87	
Somers, L. W., Co.....	57 37	
Stewart, Chas. M.....	30 08	
		465 30

Ice:

Bangor Ice Co.....	\$ 13 00	
Citizens Ice Co.....	30 00	
Getchell Bros.....	133 59	
		176 59

Supplies:

Armour & Co., washing powder.....	\$ 4 00	
Cassidy, John, Co., washing powder, soap.....	11 04	
Curtis & Tupper, formaldehyde.....	2 00	
Dolge, C. B., Co., disinfectant.....	17 00	
Dugan, P. T., & Co., harness soap.....	50	

Fire Department—Continued

Dunham-Hanson Co., mop sticks.....	1 35	
Dunning, R. B., & Co., brass brite.....	6 00	
Eastern Steamship Corp., freight	87	
Ellis, M. F., & Co., paper towels.....	10 00	
Gallagher, C. P., & Co., brooms, soapine, etc.....	23 15	
Haynes & Chalmers Co., cord.....	1 11	
Kelly, P. J., stamps.....	1 00	
Maine Central R. R. Co., freight.....	50	
Mitchell, R. H., soda.....	15 75	
Rice & Miller Co., cleaner.....	11 20	
Schwarts' Sons, M., waste.....	35 91	
Snow & Nealley Co., lathyrn.....	3 66	
Sullivan, Dan T., paper.....	1 35	
Supply Dept., vouchers, pay rolls, etc....	7 58	
Utterback-Gleason Co., brooms, soap.....	11 50	
Wescott, Geo. I., & Son, brooms, T. paper, etc.....	40 51	
West Disinfecting Co., coro-noleum, etc.	85 00	
		290 98

All Other:

Adams Dry Goods, Co., flag.....	\$10 29	
Bangor Publishing Co., advertising	6 97	
Bass, J. P., Publishing Co., advertising....	3 40	
Burr, T. W., The, Ptg. & Adv. Co., ptg. letterheads.....	4 21	
Campbell, Wm., pasturing horse.....	6 00	
Dole Co., The, repairs to clock and lamp	3 52	
Gregory's Restaurant, lunches.....	38 90	
State of Maine, auto licenses.....	10 00	
Stewart, Chas. M., flag.....	6 00	
		89 29

Total other expenses.....	\$1,558 81
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Militia:

Maintenance of Armory and Rent:

Rent:

Sawyer and Ashworth.....	\$566 67
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Insurance:

Bright, J. M.....	47 00
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Repairs:

Banton & Bailey.....	\$18 72
Fairbanks Bros.....	86 76
Gorham, W. H., Co.....	11 78
	<u>117 26</u>

Total maintenance of Armory and rent.....	\$731 53
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Other Protection of Persons and Property:

Sheep Killed by Dogs:

Dysart, Edward M.....	\$ 22 50
Fuller, Frank R.....	903 00
Hewes, Perley.....	1,255 00
Mitchell, R. H.....	26 00
Morse, Chas. W.....	84 00
	<u>\$2,290 50</u>

Hens Killed by Dogs:

Libby, Reuben H.....	6 00
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Total sheep killed by dogs.....	\$2,296 50
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Dog Officer:

Goldthwait, John.....	118 00
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HEALTH AND SANITATION

Health:

Salaries of Board.....	\$500 00
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Vital Statistics:

Birth Certificates:

Brett, Victor.....	\$79 50
Bryant, Bertram L., M. D.....	9 50
Carter, Loren F., M. D.....	2 25
Caulfield, Geo. B., M. D.....	19 00
Babcock, Harold S., M. D.....	3 50
Clark, Raymond W., M. D.....	2 75
Cox, J. F., M. D.....	13 50
Crane, H. H., M. D.....	2 00
Edmunds, C. D., M. D.....	4 25
Haskell, P. T., M. D.....	25
King, H. A., M. D.....	8 75
Mason, L. S., M. D.....	15 25
McKay, H. G., M. D.....	8 00
McNally, W. P., M. D.....	15 75
Nealley, Everett T., M. D.....	75
Osgood, H. W., M. D.....	3 50
Sanger, Eugene B., M. D.....	4 00
Starrett, J. F., M. D.....	18 25
Taylor, C. J., M. D.....	3 00
Thomas, C. M., M. D.....	1 75
	<hr/>
	\$215 50

Death Certificates:

Babcock, Harold S., M. D.....	\$ 9 00
Brett, Victor	98 40
Bryant, Bertram L., M. D.....	4 50
Carter, Loren F., M. D.....	10 00

Health—Continued

Clarke, Raymond W., M. D.....	8 00	
Cox, J. F., M. D.....	7 75	
Crane, H. H., M. D.....	75	
Edmunds, C. D., M. D.....	5 75	
Haskell, P. T., M. D.....	15 25	
King, H. A., M. D.....	5 50	
Mason, L. S., M. D.....	5 75	
McKay, H. G., M. D.....	10 75	
McNally, W. P., M. D.....	7 00	
Nealley, Everett T., M. D.....	7 25	
Norris, L. F., M. D.....	16 50	
Osgood, H. W., M. D.....	2 50	
Starrett, J. F., M. D.....	8 00	
Taylor, C. J., M. D.....	3 75	
Thornley, Roy A., M. D.....	10 25	
		<hr/>
		236 65

Marriage Certificates:

Brett, Victor.....	\$ 60 45	
Browne, Rev. B. P.....	8 25	
Counsins, Rev. Edgar M.....	1 25	
Genge, Rev. W. Quinton.....	3 50	
Montgomery, Rev. J. E.....	1 25	
Smith, Rev. Ashley.....	11 75	
		<hr/>
		86 45

Total vital statistics..... \$538 60

General Expenses:**Supplies:**

East Side Pharmacy, antitoxin, vaccine.. \$287 85

Pest House:

Aucoin, Paul, nursing..... \$132 00
 Atkins Bros., glass and putty..... 1 12

Health—Continued

Brewer, City of, rent of pest house.....	36 00	
Budreau, Joseph, nursing.....	368 00	
Connor Coal & Wood Co., coal and wood	25 04	
Freese, A. Langdon, pillow slips and towels.....	60	
Kane, Michael, carriage.....	8 00	
Lewis, H. R. & Co., tub.....	1 25	
Perkins, M. H., groceries.....	17 14	
Nelson, F. A., bed spreads.....	2 00	
New England Tel. & Tel. Co.....	45	
Schriver, A. H., M. D., medical attend- ance.....	3 00	
Staples & Griffir, groceries.....	177 90	
Woodcock, Galen M., M. D., medical attendance.....	45 00	
	<hr/>	
	\$817 50	
Credit: Paid City for care of small pox cases.....	309 11	
	<hr/>	509 39
Vaccinating:		
Osgood, H. W., M. D.....		40
Disinfectants:		
Sweet, Caldwell Co.....		44 43
Food and Clothing:		
Besse-Ashworth Co., night shirt	\$ 48	
Staples & Griffin, groceries.....	59 17	
	<hr/>	59 65
Fuel:		
Crossman, W. B., wood... ..	\$ 5 00	
Eastern Fuel Co., wood.....	5 00	
	<hr/>	10 00

Health—Continued

All Other:

Bangor Co-Operating Ptg. Co., ptg. plumbers' permits.....	\$4 00	
Brown & White Co., batteries and bulb....	1 25	
Burr, The T. W., Ptg. & Adv. Co., print- ing placards.....	4 00	
Goldthwait, John, express on water	34	
New England Tel. & Tel. Co.....	10	
Supply Dept., requisition book	15	
Sweet, Caldwell, Co., gauze.....	35	
	<hr/>	10 19

Total general expenses.....		\$921 91
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Inspector of Milk:

Salary.....		\$300 00
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Inspector of Plumbing:

Salary.....		748 70
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Sanitation:

General Administration:

Superintendent:

Salary.....		\$1,100 00
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Salary of Board:

Donovan, T. H.....	\$14 58	
Mitchell, John S., Est.....	33 33	
Porter, Fred A.....	50 00	
Watson, Ira P.....	50 00	
	<hr/>	147 91

Sanitation—Continued

Office Expenses:

Sullivan, Dan T., paper.....	\$1 30	
Supply Dept., vouchers, etc.....	1 55	
		2 85

Total general administration \$1,250 76

Sewer Maintenance:

Salaries and Wages:..... \$2,129 87

Material and Supplies:

Angley, J. F. & Co., charcoal.....	\$ 15 00
Babb, C. H., & Co., valves.....	20 00
Eastern Cement Co., cement.....	117 00
Fickett, Oscar A., Co., brick.....	14 00
Gulf Refining Co., k. oil.....	14 40
Hincks Coal Co., coal.....	9 90
Hopkins, A. R., Co., lime.....	3 30
Hughes, Murtagh, gravel and sand	9 50
Penobscot Machinery Co., manhole.....	15 00

\$218 10

Credit: Cement and bags..... 110 45

107 65

Equipment:

Bragg, N. H. & Sons, shovels.....	\$18 00
Haynes & Chalmers Co., lanterns.....	12 00
Stewart, W. H., rods, hoes, etc.....	80 00

110 00

Repairs to Equipment:

Bond, Harold L., Co., hose washers.....	\$ 1 29
Cassidy, T. F., & Son, cutting and pointing bolts.....	1 00

Sewer Maintenance—Continued

Haynes & Chalmers Co., sledge handles..	1 22	
Hopkins, Herbert, Co., repairs to cart.....	3 70	
Shannon & Carver, sharpening tools.....	50 02	
	<hr/>	57 23
Rubber Boots and Coats:		
New York Syndicate, coat.....	\$ 3 50	
Sawyer Boot & Shoe Co., boots.....	11 41	
	<hr/>	14 91
Sewer Pipe:		
Dunning, R. B., & Co.....		104 61
Gasoline Engine:		
Bond, Harold L., Co.....		185 88
Insurance:		
Higgins, Leon F.....		327 15
All Other:		
Bangor Publishing Co., adv. for supplies	\$10 40	
Bass, J. P., Pub. Co., adv. for supplies...	8 67	
Hughes, Michael, hauling pipe.....	9 00	
Lynch, M., & Co., fitting keys.....	70	
Wood & Bishop Co., stove.....	28 63	
	<hr/>	57 40
		<hr/>
Total sewer maintenance.....		\$3,094 70

Catch Basin Maintenance:

Salaries and wages.....	\$5,250 19
Supplies:	
Bangor Brick & Constn. Co., brick.....	\$43 40
Gulf Refining Co., gasoline.....	12 97
Hopkins, A. R., Co., salt.....	28 00
Hughes, Murtagh, sand.....	3 80

Catch Basin Maintenance—Continued

Penobscot Machinery Co., grates	66 25	
Sewer Dept., cement, pipe.....	58 76	
United Construction Co., basin covers....	13 50	
	<hr/>	226 68

Rubber Boots and Coats:

Adams Dry Goods Co., coats and hats....	\$32 68	
Arnold, J. M., Shoe Co., boots.....	8 90	
Sawyer Boot & Shoe Co., boots.....	8 11	
	<hr/>	49 69

Equipment:

Bragg, N. H., & Sons, shovels.....	\$7 17	
Dunning, R. B., & Co., pails.....	4 20	
	<hr/>	11 37

Equipment Repairs:

American Express Co., express.....	\$ 30	
Babb, C. H., & Co., relining dump cart....	26 45	
Bond, Harold L., Co., brass strainer, etc.	3 00	
Hopkins, Herbert G., house for gasoline engine.....	11 03	
Mulvaney Bros., duck and labor.....	1 52	
Shannon & Carver, sharpening tools	10 55	
Snow & Nealley Co., lead, oil, etc.....	19 02	
Treat, Chas. B., spark plugs.....	1 50	
	<hr/>	\$73 37

Credit: Old iron.....	21 18	
	<hr/>	52 19

All Other:

Gulf Refining Co., drum.....	\$ 7 00	
Penobscot Machinery Co., repairs	3 63	
Snow & Nealley Co., oil, grease, etc.....	11 62	
	<hr/>	22 25

Total catch basin maintenance	<hr/>	\$5,612 37
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Refuse and Garbage Removal:

Salaries and Wages.....	\$2,733 25
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Street Cleaning:

Salaries and Wages.....	\$8,429 11
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Compensation Insurance:

Kirstein, Louis K., & Sons.....	197 25
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Total street cleaning.....	<u> </u> \$8,626 36
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HIGHWAYS AND BRIDGES**Highways:**

General Administration:

Salary of clerk.....	\$ 857 75
Salary of Street Commissioner.....	1,200 00

Office Supplies:

Sullivan, Dan T., paper, ink, pencils.....	\$15 91
Supply Dept., vouchers, clips.....	17 73
	<u> </u> 33 64

Printing:

Bacon, John H., horse shoeing cards.....	\$ 2 85
Burr, The T. W., Ptg. & Adv. Co., gravel receipts, classification sheet.....	46 47
	<u> </u> 49 32

All Other:

Kirstein, Louis K., & Sons, compensation insurance	1 20
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Total general administration	<u> </u> \$2,142 91
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General Highway Expenditures:

Salaries and Wages..... \$20,071 94

Material:

Bangor Railway & Electric Co., gravel	\$557 70
Barrett Co., The, coal tar.....	101 47
Bass, J. P., Publishing Co., adv. for gravel.....	24 75
Blaisdell, H. P., gravel.....	12 80
Cort, Fred, gravel.....	54 20
Eastern Steamship Corp., freight	15 80
Gilman, H. H., gravel.....	35 25
Good Roads Club, gravel.....	100 00
Hughes, Murtagh, gravel, rock	6,684 99
Johnson, Lewis, gravel.....	32 50
Maine Central R. R. Co., freight	15 40
Morse & Co., lumber.....	212 98
Nelligan, P. J., gravel.....	19 60
North East Metal Culvert Co., culverts..	309 36
Sanford, A. G., gravel.....	29 75
Stetson, Hayward, tarvia.....	30 84
Stevens, A. E. & Co., sand.....	56 72
Towle, A. H., gravel.....	8 25
United Construction Co., sluice.....	373 51

\$8,675 87

Credit: Gravel, paving blocks..... 57 50

\$8,618 37

Supplies:

Bacon & Robirson Co., coal.....	\$36 89
Bragg, N. H., & Sons, grease and borax..	1 32
Brown & White Co., sponges, salt, etc....	20 20
Cassidy, John, Co., soap powder, matches	12 21
Crossman, W. B., wood.....	27 00
Daley & Kelliher, soda, soap.....	8 00
Dickey, W. P., & Co., nails, oil, etc.....	9 77

General Highway Expenditures—Continued

Dunham-Hanson Co., graphite, nails, etc.	9 05
Du ning, R. B., & Co., white waste	9 00
Eastern Fuel Co., wood.....	10 00
Eastern Steamship Corp., freight	1 98
Hamm, Alberto J., wood.....	4 50
Harvey Hardware Co., turpentine	75
Haynes & Chalmers Co., oil, nails.....	35 74
Hincks Coal Co., The, coal.....	53 72
Matheson, W. D., matches.....	1 44
McLean-Jones Oil & Supply Co., grease..	13 20
Morse & Co., edgings.....	4 50
Rice, John H., Co., coal.....	71 37
Snow & Nealley Co., rope and oil.....	42 51
Standard Oil Co., of N. Y., k. oil.....	10 00
Stickney & Babcock Coal Co., coal	168 78
	<hr/>
	\$551 93

Veterinary and Medicine:

Prown, C. M., medicine... ..	\$10 25
Curtis & Tupper, medicine... ..	9 80
Daley & Kelliher, iodine.....	4 00
Dugan, P. T., & Co., bandages.....	1 50
Dunning, R. B., & Co., heave cure.....	80
Dwinal, C. F., D. V. S., veterinary.....	9 00
East Side Pharmacy, medicine.....	12 90
Sweet, Caldwell, Co., medicine.....	7 30
Warren, Ara, liniment.....	4 75
	<hr/>

60 30

Suburban Agents:

Blaisdell, H. P.....	\$130 66
Chandler, A. J.....	49 04
Cort, Fred.....	233 06
Dysart, E. M.....	65 09
Eveleth, R. C.....	160 38
Fuller, F. R.....	160 16
Hamm, Alberto J.....	28 50
Hathorn, Guy E.....	23 93

General Highway Expenditures—Continued

Lewis, E. H.....	42 50
Lewis, H. P.....	51 50
Nelligan, P. J.....	364 34
Robinson, A. H.....	1 00
Sanford, A. G.....	287 59
Sanford, C. C.....	50 00
Smith, E. C.....	22 25
Whitney, P. M.....	17 62
Wilson, H. O.....	107 56
	<hr/> \$1,795 18

Grain, Hay and Straw:

Bangor Railway & Electric Co., freight..\$	12 16
Charity Dept., hay.....	569 40
Cougle, F. W., hay and straw	110 11
Farmers' Union, The, oats.....	168 00
Hopkirs, A. R., Co., oats.....	1,767 00
Jannison, W. A., oats.....	1,442 50
Kimball, J. M.....	61 06
Largay, J. E., hay.....	185 32
Milliken, James, Co., grain.....	486 30
Moor, Geo. L., & Son, straw.....	81 26
Towle, J. N., & Co., grain.....	388 80
Whitney, P. M., hay.....	213 74
Witherly, G. H., hay.....	113 30
	<hr/> \$5,598 95
Credit: Dressing.....	220 00
	<hr/> \$5,378 95

Equipment Renewals and Repairs:

American Express Co., express.....	\$ 1 15
Austin Mfg. Co., repairs.....	1 72
Bachelor, J., & Co., sweat pads.....	7 20
Benson, E. R., Motor Co., Studebaker repairs.....	43 44
Blake, Frank R., oat and corn crusher....	250 00

General Highway Expenditures—Continued

Bragg, N. H., & Sons, material for repairs	190 33
Buffalo-Springfield Roller Co., chain carrier.....	20 00
Conant, C. M., Co., repairs for road machine.....	61 00
Crosby, S. L., Co., Ford repairs.....	1 32
Dickey, W. P., & Co., shovels, etc.	63 40
Dole Co., The, repairing blasting machine	6 30
Dugan, P. T., & Co., harness renewals and repairs.....	251 75
Dunham-Hanson Co., rakes, shovels, etc.	39 47
Dunning, R. B., & Co., rakes, shovels, etc.....	116 98
Green, J. Frank, repairs on motor truck.	3 68
Harvey Hardware Co., copper rivets, axes.....	7 66
Haynes & Chalmers Co., paint, lanterns, etc.....	82 80
Imperial Brush Co., street brooms	16 00
Lancaster, N. H., Est., repairs.....	12 50
Maine Central R. R., freight.....	4 78
Morse & Co., lumber.....	60 97
New England Road Machinery Co., second hand scarifier.....	335 00
Newman, Neil E., Velic repairs.....	746 69
Parkhurst, J. F., & Son Co., lining stock	4 20
Peavey Mfg. Co., road machine knives ground.....	47 00
Ryan, Frank, harness renewals and repairs.....	68 70
Snow & Nealley Co., iron sheave.....	1 25
Strout's Garage, repairs to Ford.....	36 69
Thoms, H. B., repairs to wagon... ..	14 25
Treat, Chas. B., auto repairs... ..	74 80
Treat, John W., vul. case... ..	3 50
Union Iron Works, steam roller repairs...	191 12

General Highway Expenditures—Continued

Utterback-Gleason Co., horse cards	1 56
Willard Storage Battery Sta., charging batteries.....	29 66
	<hr/>
	\$2,796 87

Credit: Tool box, repairs on steam roller.....	36 60
	<hr/>
	\$2,760 27

Horse Shoeing:

Grant, Asa T.....	\$195 75
Leighton & Leland.....	118 50
Leighton & Smith.....	76 95
Smith & Hurlbert.....	81 00
White & Winchester.....	110 45
	<hr/>
	582 65

Insurance:

Baker & Hodge.....	\$134 15
Byrnes, P. J.....	37 15
Curran, Wm. F., Co.....	62 59
Freeland-Mann Co.....	103 70
Kirstein, Louis, & Sons.....	538 20
Lord, Henry & Co.....	51 60
McClure, J. W., & Son.....	5 53
Somers, L. W., Co.....	41 44
Stewart, Chas. M.....	21 60
Tyler, L. C., & Sons Co.....	50 10
	<hr/>
	\$1,046 06

Refund.....	3 62
	<hr/>
	1,042 44

Gasoline and Supplies for autos:

Daley & Kelliher, distilled water.....	\$ 20
Dunham-Hanson Co., auto oil.....	15 00
Gulf Refining Co., gasoline and grease....	300 40

General Highway Expenditures—Continued

Haynes & Chalmers Co., auto oil	27 67	
McLean-Jones Oil & Supply Co., auto oil	21 60	
Oaks, M. P., lubricant.....	10 00	
Standard Oil Co., of N. Y., gasoline.....	300 00	
Sweet, Caldwell, Co., distilled water	90	
Treat, John, whiz stop freeze.....	7 50	
		683 27
Auto:		
Crosby, S. L., Co.....		382 00
Repairing Roads:		
Casey, Francis T., repairing concrete roads.....		289 76
Rubber Coats:		
New York Syndicate.....		42 00
Horses:		
Hughes, Murtagh.....	\$650 00	
Credit.....	200 00	
		450 00
All Other:		
Bangor Publishing Co., adv. for gravel and macadam road.....	\$38 75	
Bass, J. P., Publishing Co., do.....	41 16	
Brown, Ralph Co., use of wagon.....	22 50	
Citizens Ice Co., ice.....	21 25	
Columbia Towel Supply Co., towels.....	18 00	
Crosby, S. L., Co., police badge.....	1 00	
Dunning, R. B., & Co., lime.....	2 25	
Electric Dept., lamps and repairs.....	32 72	
Eveleth, R. C., hauling plank.....	3 00	
Hughes, Murtagh, use of horse	50 00	
Lancaster, M. H., Est., labor.....	2 00	
Jones, F. S., mops and handles	60	

General Highway Expenditures—Continued

Getchell Bros., ice.....	4 20	
Getchell, E. L., repairs.....	11 55	
Haynes & Chalmers Co., can.....	88	
Lynch, M., & Co., padlocks and keys	1 65	
New England Tel. & Tel. Co.	45 60	
State of Maine, auto registration	5 06	
Strout's Garage, use of truck.....	10 00	
Sweet, Caldwell, Co., borax, etc.....	4 82	
Thoms, H. B., rent of wagon.....	3 00	
Treasurer State of Maine, State aid high- ways.....	61	
Wood & Bishop Co., stove pipe and elbows.....	2 14	
		<hr/>
	\$322 74	
Credit: Use of steam roller, rent of sleds, etc.....	103 75	
		<hr/>
		218 99
		<hr/>
Total general highway expendi- tures.....		\$42,928 05

Snow and Ice Removal:

Salaries and Wages..... \$8,423 24

Suburban Agents:

Blaisdell, H. P.....	\$158 00
Chandler, A. J.....	71 50
Cort, Fred.....	192 42
Dysart, E. M.....	2 40
Eveleth, R. C.....	208 63
Fuller, F. R.....	181 47
Hamm, Alberto J.....	134 45
Hathorn, Guy E.....	33 14

Snow and Ice Removal—Continued

Lewis, E. H.....	69 00
Lewis, H. P.....	209 75
Morrison, C. H.....	7 87
Nelligan, P. J.....	309 76
Robinson, A. H.....	27 45
Sanford, A. G.....	178 75
Sanford, C. C.....	19 00
Savage, Archie B.....	22 56
Smith, E. C.....	99 25
Whitney, P. M.....	40 75
Wilson, H. O.....	276 42
	<hr/> \$2,242 57

Material:

Bass, J. P., sand.....	\$406 00
Hughes, Murtagh, sand.....	72 88
Jones' Sons, Alfred, salt.....	3 00
Towle, J. N., & Co., salt.....	9 10
	<hr/> 490 98

Compensation Insurance:

Kirstein, Louis, & Sons.....	236 70
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All Other:

Bangor Co-Operative Ptg. Co., printing	\$ 3 75
Bangor Publishing Co., advertising	2 03
Fowler Drug Co., sign.....	23 23
Gatchell, E. L., repairs on steps	15 06
United States Post Office Mail box.....	3 05
	<hr/> 47 12

Total snow and ice removal.....	<hr/> \$11,440 61
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Repairs and Maintenance of Sidewalks and Curbing:

Salaries and Wages.....		\$431 54
Material:		
Blaisdell, T. M., granite.....	\$520 78	
Hughes, Murtagh, gravel.....	54 69	
Maine Central R. R. Co., freight	17 35	
	<u> </u>	592 82
Repairing Sidewalks:		
Casey, Francis T.....	\$ 9 30	
Doherty, John T.....	35 88	
	<u> </u>	45 18
		<u> </u>
Total repairs and maintenance of sidewalks and curbing.....		\$1,069 54

Sprinkling:

Salaries and Wages.....		\$9,014 89
Oil for Road:		
Eastern Steamship Corp., freight	\$66 10	
Maine Central R. R. Co., freight	8 00	
Standard Oil Co., of N. Y., oil	481 99	
	<u> </u>	556 09
Compensation Insurance:		
Kirstein, Louis, & Sons.....		39 00
Equipment Repairs:		
American Express Co., express	\$ 48	
Austin Western Road Machinery Co., sprinkler repairs.....	8 88	
Studebaker Corp. of America, sprinkler heads.....	27 00	
	<u> </u>	36 36

Sprinkling—Continued

Use of Sprinklers:	
Hughes, Murtagh.....	100 00
All Other:	
Burr, The T. W., Ptg. & Adv. Co., ptg. filing cards.....	\$19 30
Hughes, Murtagh, use of motor truck in oiling.....	50 00
	69 30
Total sprinkling.....	\$9,815 64

Bridges:

Repairs and Maintenance:	
Bangor and Brewer Bridge:	
Connor Coal & Wood Co., coal.....	\$10 36
Eastern Fuel Co., wood.....	2 50
Electric Dept., cost of lighting bridge.....	300 00
Highway Dept., cleaning and sprinkling bridge.....	100 00
Hincks Coal Co., coal.....	1 91
Kenney & McMahon, k. oil.....	72
Kirstein, Louis, & Sons, compensation ins.....	65 89
Morse & Co., lumber, etc.....	62 45
Pay roll.....	1,071 88
Penobscot Machinery Co., repairs to railing.....	8 78
Supply Dept., pay roll.....	90
Stickney & Babcock Coal Co., coal	4 65
	\$1,630 04
Kenduskeag Bridge:	
Cassidy, T. F., & Son, angle irons, etc.....	\$ 84 40
Eastern Builders Asso., steel.....	371 25

Bridges—Continued

Farrington, Dana, gravel.....	2 60
Grady, John, & Co., repairs.....	23 96
Maine Central R. R. Co., freight	2 77
Pay roll.....	142 06
Police Department.....	72 00
Standard Oil Co. of N. Y., thermometers	3 85
Tropical Paint & Oil Co., paint.....	96 03

\$798 92

Credit: Bridge arching..... 56 10

742 82

Salt Mill Bridge:

Barrett Co., The, coal tar.....	\$ 3 85
Freeland-Mann Co., insurance.....	42 00
Kirstein, Louis, & Sons, insurance	6 67
Lord, Henry & Co., insurance	42 00
McKenney, Galen, sharpening tools.....	1 55
Morse & Co., lumber, etc.....	186 79
Mullen, Chas. C., insurance.....	42 00
Pay roll.....	113 62
Somers, L. W., Co., insurance.....	42 00

480 48

Mt. Hope Ave. Bridge:

Pay roll.....

1 25

Central Street Bridge:

Bangor Railway & Electric Co., cedar ties.....	\$ 7 59
Barrett Co., The, coal tar.....	3 85
Bragg, N. H., & Sons, files and chisels.....	2 77
Casey, Francis T., gravel.....	5 00
Eastern Cement Co., cement.....	2 60
Eastern Fuel Co., wood.....	2 00
Farrington, Dana, sand.....	14 00

Bridges—Continued

Grady, John & Son, wood block paving..	133 33
Harvey Hardware Co., nails, spikes, etc.	24 05
Hayes & Chalmers Co., nails.....	12 79
Kirstein, Louis, & Sons, insurance	6 68
McKenney, Galen, repairs to tools.....	3 65
Morse & Co., lumber, etc.....	388 81
Pay roll.....	666 96
Schwartz' Sons, M., rubber belt	97
Snow & Nealley Co., cord.....	57
Standard Oil Co. of N. Y., k. oil, thermo- meters.....	7 80
Supply Dept., pay rolls.....	75
	<hr/> \$1,284 17

Maine Central R. R. Walk:

Bragg, N. H., & Sons, bolts and washers \$	6 33
Eldridge, Fred E., Co., paint and labor...	30 75
Harvey Hardware Co., nails, spikes, etc.	5 61
Kirstein, Louis, & Sons, insurance.....	6 67
Morse & Co., lumber.....	157 57
Pay Roll.....	170 13
	<hr/> 377 06

Morse's Mills Bridge:

Curran, Wm. F., Co., insurance.....	\$ 42 00
Freeland-Mann Co., insurance.....	21 00
Kirstein, Louis & Sons, insurance	6 67
Pay Roll.....	17 00
Pearl & Dennett Co., insurance.....	42 00
Somers, L. W., Co., insurance.....	42 00
	<hr/> 170 67

Merrill Mills Bridge:

Barrett Co., The, coal tar.....	\$ 3 85
Bragg, N. H., & Sons, hardware.....	34 06
Cassidy, T. F., & Son, repairing bolts.....	75
Dickey, W. P., & Co., nails, spikes, etc...	9 95
Harvey Hardware Co., spikes, oil, etc.....	5 63
Haynes & Chalmers Co., spikes.....	4 75

Bridges—Continued

Kirstein, Louis & Sons, insurance.....	6 67	
Maine Central R. R. Co., freight.....	22 73	
Morse & Co., lumber.....	251 88	
Pay Roll.....	467 12	
Sterns Lumber Co., lumber.....	363 20	
	<hr/>	1,170 59
Six Mile Falls Bridge:		
Kirstein, Louis, & Sons, insurance.....	\$ 6 66	
Pay Roll.....	3 00	
	<hr/>	9 66
Pushaw Road Bridge:		
Bragg, N. H., & Sons, iron, spikes, etc.....	\$52 55	
Haynes & Chalmers Co., nails, chalk.....	1 20	
Kirstein, Louis, & Sons, insurance	6 67	
Morse & Co., lumber.....	94 90	
Pay Roll.....	250 75	
Penobscot Machinery Co., drilling angle	3 38	
	<hr/>	410 45
Red Bridge—State Street:		
Morse & Co., lumber.....	\$4 20	
Pay Roll.....	7 00	
	<hr/>	11 20
General:		
Bangor Post Office, stamped envelopes	\$ 21 72	
Bragg, N. H., & Sons, tools.....	6 42	
Cassidy, T. F., & Son, pick poles	1 50	
Dickey, W. P., & Co., paint, oil, etc.....	14 35	
Dillingham, E. F., typewriter paper.....	50	
Harvey Hardware Co., tools.....	9 22	
Haynes & Chalmers Co., tools.....	53 71	
Lewis, H. R., & Co., soldering oil can.....	25	
Morse & Co., tape and rules.....	1 03	
Rice & Miller Co., lantern.....	1 95	
Sawyer Boot & Shoe Co., rubber boots....	12 52	
Supply Dept., vouchers, etc.....	85	
	<hr/>	124 02
Total Bridges.....		<hr/> \$6,412 41

CHARITIES

Charities:

General Administration:

Salaries—Overseers of the Poor.....	\$1,372 56
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Expense:

Burr, The T. W., Ptg. & Adv., Co., letter heads, envelopes and printing.....	\$ 7 46	
Cameron, Geo. F., expenses out of City	14 13	
Murphy, Timothy, carriage.....	50	
New England Tel. & Tel. Co.....	05	
Overseers of the Poor, stamps.....	12 50	
Sullivan, Dan T., directory.....	3 00	
Supply Dept., vouchers, etc.....	10 67	
	48 31	

Clerk:

Porter, Martha S.....	35 50	
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Total general administration	\$1,456 37
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Almshouse:

Salaries and Wages.....	\$6,144 34
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Groceries and Provisions:

Armour & Co.....	\$192 80
Bangor Dairy Co.....	126 90
Beal & Hardison.....	12 30
Bean, W. A., & Sons.....	67 54
Cassidy, John, Co.....	448 16
Chapin, Arthur, Co.....	65 00
Duluth-Superior Milling Co.....	96 25
Eastern Grain Co.....	238 45

Almshouse—Continued

Eastern Steamship Corp.....	4 86
Flanders, Wm. M.....	207 43
Fleischmann Co., The.....	59 38
Foley, J. E. Co.....	88 43
Gallagher, T. F.....	24 75
Gulliver, John T.....	9 00
Hayward, Chas. & Co.....	703 90
Horlick's Malted Milk Co.....	4 00
Jones' Sons, Alfred.....	132 83
Jones, Chas. S.....	89 59
Jones, F. L., Co.....	44 67
Jones Sanitary Market.....	189 18
Joy, A. W., Co.....	145 46
Maine Central R. R. Co.....	70
Murray Bros. Co.....	125 16
Phillips, Samuel.....	2 50
Rice, C. H., Co.....	171 76
Snow, James H., & Co.....	2 87
Squire, John P., & Co.....	22 15
Staples & Griffin.....	206 79
Staples, Roger.....	3 21
Sweet, Caldwell, Co.....	5 50
Swift & Co.....	20 30
Wilson & Co.....	742 89
Zoidis Bros., A.....	2 40
	<hr/> 4,257 11

Fuel:

Hincks Coal Co., coal.....	\$ 10 54
Sterns Lumber Co., wood.....	3,527 50
	<hr/>
	\$3,538 04
Credit: Transferred to outside relief....	2,569 25
	<hr/>

968 79

Almshouse—Continued

Dry Goods and Clothing:

Adams Dry Goods Co.....	\$346 78	
Besse-Ashworth Co.....	62 14	
Freese, A. Langdon.....	3 00	
New York Syndicate.....	35 81	
Nichols, E. C., Dry Goods Co.....	15 75	
	<hr/>	463 48

Special Medical Attendance:

Eastern Maine General Hospital.....		5 00
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Grain and Feed:

Dunning, R. B., & Co.....	\$ 2 90	
Eastern Grain Co.....	45 00	
Farmers' Union.....	18 75	
Jennison, W. A.....	245 90	
Milliken, James Co.....	86 00	
Towle, J. N., & Co.....	1,213 27	
	<hr/>	1,611 82

Hospital Supplies and Medicine:

Adams Dry Goods Co., bunting.....	\$ 38 74	
Farrar Furniture Co., mattress	3 50	
Liggett, Louis K., & Co., prescription, etc.	5 50	
Priest, H. K., medicine.....	80	
Sweet, Caldwell, Co., medicine and supplies.....	397 70	
	<hr/>	446 24

Boots and Shoes:

Arnold, J. M., Shoe Co., rubber boots.....	\$2 96	
Bangor Shoe Store, shoes.....	3 50	
Connors, John, Shoe Co., boots and shoes	76 60	
Givren Shoe Repairing Co., repairing shoes.....	2 25	
New York Syndicate, shoes.....	65	
Sawyer Boot & Shoe Co.....	46 38	
	<hr/>	132 34

Almshouse—Continued

Veterinary and Horse Shoeing:

Dwinal, C. F., D. V. S.....	\$ 14 50
Grant, Asa T., shoeing.....	115 40
Leland & Car, shoeing.....	17 10
Leighton & Leland, shoeing.....	5 60
Murch, Alfred L., M. D. V.....	4 50
Sweet, Caldwell, Co., Fowler's Solution..	40
Welch, C. E., shoeing.....	25

 157 75

Household Utensils and Supplies:

Adams Dry Goods Co., bed spreads, etc.	\$20 10
Bangor Broom Co., brooms.....	5 00
Cassidy, John, Co., soap powder, matches	36 02
Cudahy Packing Co., soap, dutch cleanser	58 95
Curtis & Tupper, Keep-em-Fresh.....	50
Dwelley & Co., sewing machine needles	65
Gulf Refining Co., kerosene oil.....	5 50
Hayward, Chas., & Co., soap, washing powder, etc.....	42 81
Lewis, H. R., & Co., milk cans, pails, etc.	20 67
Maine Central R. R. Co., freight	2 70
Staples & Griffin, washing powder	9 25
Sweet, Caldwell, Co., T. paper.....	25 75
Towle, J. N., & Co., salt.....	3 50
Vose, P. H., Co., dishes.....	79 42
West Disinfecting Co., towels	71 28
Wood & Bishop Co., bake pan.....	1 50
Woolworth, F. W., Co., dishes.....	8 40

 392 00

Material and Repairs:

Babb, C. H., & Co., plumbing repairs....	\$ 32 74
Berry & Smith, canvas.....	50
Blethen, Dyer & Rounds, plumbing repairs.....	27 80
Bragg, N. H., & Sons, material for repairs	12 69
Cassidy, T. F., & Son, repairs to harrow..	3 63
Conant, C. M., Co., repairs for seeder.....	3 50

Almshouse—Continued

Dickey, W. P., & Co., material for repairs	15 42
Dole Co., The, lamps, etc.....	14 37
Dugan, P. T., & Co., repairing collar.....	2 10
Dunham-Hanson Co., material for repairs.....	18 55
Dunning, R. B., & Co., material for repairs.....	67 54
Fessenden, C. P., jigger and repairs.....	46 25
Hardy, J. M., repairs to hose.....	1 24
Harvey Hardware Co., material for repairs.....	50 92
Kendall & Winch, sharpening and repairing lawn mowers.....	2 35
Knowles & Dow Co., equipment repairs..	8 05
Leland & Carr, equipment repairs.....	39 65
Lewis, H. R., & Co., stove repairs.....	32 25
Lynch, M., & Co., lock repairs.....	1 70
Morse & Co., lumber.....	32 32
Noyes & Nutter Mfg. Co., repairs to stove.....	1 35
Parkhurst, J. F., & Son Co., web belt.....	1 50
Patter, L. P., repairs.....	5 48
Rice & Miller Co., door handle.....	3 25
Ryan, Frank, harness repairs.....	8 50
Smith & West, dry batteries.....	70
Snow & Nealley Co., rubber belt and cut lace.....	1 60
Sterns Lumber Co., lumber.....	73 81
Thompson Implement & Seed Co., equipment repairs.....	4 20
Union Iron Works, equipment repairs.....	14 60
Utterback-Gleason Co., Inc., harness repairs.....	17 52
Ward, John M., mason repairs	33 33
Welch, C. E., equipment repairs.....	13 60
Woodman, C., Co., boards.....	1 60

Almshouse—Continued

Seed:

American Express Co., express.....	\$ 1 03	
Chick, Wm. F.....	10 73	
Dunning, R. B., & Co.....	190 01	
Homestead, Geo.....	7 50	
Mt. Hope Cemetery Corp.....	62 50	
Salzer, John A., Seed Co.....	6 60	
Thompson Implement & Seed Co.....	1 10	
	<hr/>	279 47

Fertilizer:

Dunning, R. B., & Co., lime.....	\$ 1 35	
Fire Dept., dressing.....	44 00	
Highway Dept., dressing.....	220 00	
Morrison Bros.....	76 00	
	<hr/>	341 35

Disinfectants:

Dunning, R. B., & Co., lime.....	\$ 12 20	
Hayward, Chas., & Co., chloride of lime..	2 55	
Murray, Edgar A., Co.....	4 00	
	<hr/>	18 75

Equipment:

Dugan, P. T., & Co., sweat pads and drop straps.....	\$ 3 20	
Dunham-Hanson Co., pickax handle.....	75	
Dunning, R. B., & Co., rakes, shovels, etc.....	150 09	
Knowles & Dow Co., harrow.....	34 00	
Ryan, Frank, harness renewals	7 25	
Utterback-Gleason Co., harness renewals	50 57	
	<hr/>	245 86

Pipes and Tobacco:

Bangor Cigar Co., tobacco.....	\$ 50 70	
Cassidy, John Co., tobacco.....	26 83	
Hayward, Chas. Co., tobacco.....	109 11	
Savage, L. W., tobacco.....	5 13	
Staples & Griffin, tobacco.....	7 74	
	<hr/>	199 51

Almshouse—Continued

Horses:

Hughes, Murtagh.....	\$600 00	
Kean, Chas. E.....	190 00	
		790 00

Insurance:

Baker & Hodge.....	\$ 43 81	
Blake, Barrows & Brown.....	192 85	
Boyd, J. Herbert.....	210 39	
Byrnes, P. J.....	128 85	
Dyer, Ralph A.....	25 77	
Freeland-Mann Co.....	52 69	
Gallagher, Hugh T.....	128 86	
Kirstein, Louis, & Sons.....	77 31	
Lord, Henry, & Co.....	167 50	
McClure, J. W., & Son.....	301 79	
Palmer, W. W.....	51 54	
Pearl & Dennett Co.....	231 93	
Somers, L. W., Co.....	172 65	
Stewart, Chas. M.....	64 43	
		1,850 37

All Other:

Adams Dry Goods Co., combs.....	\$ 2 00	
American Express Co., express.....	25	
Bangor Steam Laundry, laundry.....	39 64	
Bass, J. P., Publishing Co., advertising.....	12 00	
Bean, W. A., killing hogs.....	9 10	
Burr, The T. W., Ptg. & Adv. Co., ptg. letterheads, sheet placards.....	6 46	
Cameron, G. F., car fare.....	1 00	
Dickey, W. P., & Co., light for wagon, oil.....	4 15	
Dillingham, E. F., directory.....	3 00	
Dunham-Hanson Co., oil.....	3 65	

Almshouse—Continued

Dunning, R. B., & Co., Kow Kure, oil, etc.....	35 78
Eastern Me. Gen'l Hospital, ambulance	2 00
Foley, J. E., Co., use of horse.....	15 00
Kane, Michael, use of horse.....	7 50
Harvey Hardware Co., ice creepers	50
Homestead, Geo., pasturing heifer	20 00
Klatt, L. E., car fares, stamps, etc.....	31 20
Knowles & Dow Co., oil can.....	25
Leland & Carr, rent of stable.....	8 00
Moor, Geo. &, & Son, shavings	13 50
New England Tel. & Tel. Co.....	54 94
Penobscot Lumber & Box Co., sawdust	5 80
Phillips, Samuel, pullets.....	6 80
Porter-Parsons Co., laundry.....	14 65
Remington Typewriter Co., repairs to typewriter.....	85
Rice, C. H., Co., curing hams and bacon	3 29
Schwarts' Sons, M., saw set.....	1 25
Smith, G. W., grinding grain.....	3 60
Snow & Nealley Co., rope.....	6 85
Sproul, Benj., chicken.....	2 50
Staples, W. S., setting eggs.....	4 20
Sullivan, Dan T., receipt-time-books.....	1 28
Supply Dept., requisition books.....	45
Sweet, Caldwell, Co., sulfur, salt petre...	1 40
Utterback-Gleason Co., harness oil.....	1 00
Welch, M. F., ice.....	31 55
Williston, Robert C., blue glasses.....	35
	<hr/>
	355 74
Total Almshouse.....	<hr/>
	\$19,254 53

Outside Relief by City:

Groceries and Provisions:

Anderson, Peter A.....	\$ 250 00
Blake, Wm. H.....	68 00
Brennan, J. H.....	25 00
Chapman, G. A.....	15 00
Drummond, F. H.....	81 80
Fleming, John F.....	180 00
Foley, J. E., Co.....	250 00
Frank Grocery Co., The.....	210 00
Gallagher Bros.....	20 00
Gallagher, T. F.....	265 00
Haley, E. A.....	20 00
Hickson, Robert, & Sons.....	80 00
Jellison, H. E.....	45 00
Jones, F. S., & Co.....	35 00
Jordan, R. C.....	10 00
Kane, A. H.....	10 00
Lord Bros.....	25 00
Matheson, W. D.....	20 00
McAvey, Fred.....	20 00
McDonald, H. E.....	110 00
McGrath, D. J.....	216 15
Pearson & Spencer.....	40 00
Piper, E. F.....	5 00
Robinson, S. H., & Son.....	120 00
Spencer, E. F.....	10 00
Staples & Griffin.....	565 00
Townsend, Geo. E.....	30 00
White, Wm. F.....	60 00
Whitman N. W.....	112 99
	<hr/>
	\$2,898 94
Credit:.....	5 00
	<hr/>
	2,893 94

Outside Relief by City—Continued

Fuel:

Bangor & Brewer Coke Co., coke.....	\$ 5 25	
Almshouse.....	988 00	
Sterns Mills.....	532 00	
		1,525 25

Dry Goods and Clothing; Boots and Shoes:

Besse-Ashworth Co., clothing, boots and shoes.....	\$ 30 96	
Benson & Co., clothing.....	14 95	
Clark, Chas. E., clothing.....	9 39	
Connors, John, Shoe Co., shoes.....	53 33	
Freese, A. Langdon, clothing.....	22 67	
Hale, C. B., & Co., clothing.....	16 03	
New York Syndicate, clothing, shoes.....	90 79	
Nichols, E. C., Dry Goods Co., clothing, shoes.....	22 97	
Palmer Shoe Mfg. & Repeg. Co., shoes.....	2 75	
Reliable Clothing Co., moccasins.....	2 75	
Sawyer Boot & Shoe Co., boots and shoes.....	64 39	
		330 98

Medical Attendance and Medicine:

Bryant, Bertram, M. D., insane case.....	\$ 3 00
Caulfield, Geo. E., M. D., insane case....	27 00
Cox, J. F., M. D., insane cases	8 00
Crane, H. H., M. D., insane cases.....	12 00
Daley & Kelliher, prescriptions.....	5 10
Eastern Maine Gen'l Hospital, X-ray treatments.....	11 00
Edmunds, C. D., M. D., insane cases.....	6 00
Hunt, W. L., M. D., insane cases.....	6 00
Johnson, M. R., medicine.....	1 05
King, H. A., M. D., insane cases.....	6 00
Mason, L. S., M. D., insane cases.....	3 00
McCanr, Daniel, M. D., insane cases.....	3 00
McKay, Hugh G., M. D., insane cases....	3 00

Outside Relief by City—Continued

McNally, W. P., M. D., insane cases.....	21 00	
McNeil, H. D., M. D., insane cases.....	3 00	
Milliken, H. J., M. D., insane cases.....	6 00	
Osgood, H. W., M. D., insane cases, con- sultations.....	84 50	
Randall, Mrs. Nellie F., castoria.....	70	
Robinson, E. L., medicine.....	3 99	
Starrett, J. F., M. D., insane cases.....	6 00	
Sweet, Caldwell, Co., medicine.....	30 44	
Taylor, C. J., M. D., insane cases, calls...	53 00	
Warren, Ara, urinal.....	5 00	
		307 78

Board:

Cooper, Mrs. Annie B.....	\$ 66 00	
Ellingwood, C. E.....	70	
Flagg, Hattie M.....	26 00	
Frost, Eva M.....	60 85	
Johnson, M. R.....	24 00	
Leathers, Minnie J.....	35 00	
Mason, Mrs. E. A.....	13 75	
McCullough, A. T.....	28 00	
McFarland, Angie.....	76 71	
Moore, Mrs. E. S.....	172 94	
Randall, Nellie F.....	150 32	
Robinson, E. L.....	84 00	
Towle, Mrs. Mattie A.....	96 00	
Tracy, Mrs. Fred.....	260 94	
		1,095 21

Rent:

Emple, Katie.....	\$68 00	
Foley, J. E., Co.....	24 00	
Galpert, Harry.....	16 00	
Haynes, James H.....	10 00	
Shapiro, Max.....	96 00	
		214 00

Outside Relief by City—Continued

Transportation:

Alexander, F. D., carriage.....	\$ 4 50	
Bennett, A. E., carriage.....	1 50	
Campbell, Arthur, carriage.....	1 00	
Eastern Me. Gen'l Hospital, ambulance..	8 00	
Eastern Steamship Corp.....	16 32	
Brennan, John C., carriage.....	2 00	
Kane, Michael, carriage.....	6 00	
Maine Central R. R. Co.....	72 50	
Murphy, Timothy, carriage.....	7 25	
Quinn, Edward, auto.....	2 00	
Quinn, Wm. J., auto.....	3 25	
		124 32

Burial:

Clayton, Wm. Z., Co.....	\$25 00	
Crowe Bros.....	17 00	
Finnegan Bros.....	25 00	
Hathorn, R. E.....	29 50	
Kelleher, John T.....	75 00	
Mt. Pleasant Catholic Cemetery.....	20 00	
Pond, Galen.....	16 40	
Quine, Patrick.....	4 00	
White, Ralph B.....	84 00	
		295 90

All Other:

Cameron, G. F., car fares and Justice fee	\$ 6 35
Derby, G. B. Co., moving household goods.....	14 50
Glass, Chas. H., Co., ptg. orders for delivery of wood.....	14 00
Johnson, M. R., hair cut and car fare.....	35
Maine Central R. R. Co., freight on household goods.....	16 99
Nelson, F. A., second hand stove	5 00

Outside Relief by City—Continued

Pfaff, Adolf, spectacles.....	1 25	
Randall, Nellie F., mattress, pillows, etc.	10 00	
Sweet, Caldwell, Co., chloride of lime.....	42	
Tracy, Mrs. Fred, telephone.....	10	
Wood & Bishop Co., repairs to stove.....	2 65	
		71 61
		<hr/>
Total outside relief by city		\$6,858 99

Relief Given by Other Cities and Towns:

Provisions:

Manchester, Town of.....		\$545 72
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Board:

Eden, Town of.....	\$181 60	
Glenburn, Town of.....	10 00	
		191 60
		<hr/>

Medical Attendance:

Millinocket, Town of.....	\$1 00	
Ripley, Town of	3 75	
		4 75
		<hr/>

Shoes:

Eden, Town of.....		10 85
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All Other:

Eden, Town of, ticket to Bangor.....	\$ 1 84	
Millinocket, Town of, ticket to Bangor, telephone	3 35	
		5 19
		<hr/>

Total relief given by other cities and towns.....		\$758 11
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CITY OF BANGOR

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Other Expenses:

Telephone:

New England Tel. & Tel. Co..... \$10 49

Printing:

Burr, The T. W., Ptg. & Adv. Co.,
Mothers' Aid Blanks..... 4 40

Insurance:

Freeland-Mann Co., hay in barn on
Webster Ave..... 3 96

All Other:

Pfaff, Adolf, clock 1 25

Total other expenses..... 1 25 \$20 10

City Physician:

Salary..... \$400 00

City Missionary:

Salary..... 450 00

SOLDIERS' BENEFITS

Soldiers' Benefits:

State of Maine:

State Pensions..... \$5,681 00

SOLDIERS' AID FUND

Soldiers' Aid:

Aid:	
Blake, Albion C. amd Arnold E.....	\$48 00
Blanchard, Mrs. John J.....	8 00
Coburn, Josephine L.....	22 50
Colton, Mrs. Emma.....	48 00
Conroy, Margaret D.....	44 00
Currier, Mrs. Abbie A.....	68 00
Decker, Mrs. Llewellyn R.....	16 00
Dodge, Mrs. Sarah A.....	44 00
Downs, Mrs. John W.....	68 00
Drinkwine, Mrs. Addie M.....	28 00
Dyer, Mrs. Fannie C.....	64 00
Ellis, Mrs. Blanchard.....	20 00
Fenno, Mrs. Chas. A.....	20 00
Finley, Mrs. Howard B.....	68 00
Fish, Mrs. Franklin.....	119 00
Ford, Mrs. Tilly.....	36 00
Foss, Mrs. Grover C.....	25 50
Gallagher, Mrs. Margaret E.....	12 00
Hickey, Patrick.....	64 00
Hinds, Mrs. Josiah.....	60 00
Huskins, Mrs. Chas. B.....	72 00
Jameson, Mrs. Catherine.....	48 00
Jones, Mrs. Walter Co.....	4 00
Linnell, Mrs. Guy E.....	52 00
Martin, Mrs. Elsa.....	72 00
McCarthy, Mrs. John T.....	170 00
McNeil, Peter B.....	48 00
Mutty, Mrs. David F.....	24 00
Peckham, Mrs. Wentworth.....	40 00
Pelchior, Mrs. Lawrence A.....	60 00
Rist, Mrs. Francis X.....	28 00
Small, Mrs. Annie M.....	52 00

Soldiers' Aid—Continued

Smith, Mrs. Everett L.....	76 00	
Smith, Mrs. Wesley L.....	72 00	
Sutton, Mrs. John J.....	32 00	
Trask, Mrs. Lindsay G.....	44 00	
Treworgy, Mrs. Lawrence L.....	12 00	
Wadleigh, Mrs. Fern S.....	119 00	
Webster, Mrs. Herbert.....	95 00	
Whalen, Matthieas.....	48 00	
Whitney, Mrs. Norman E.....	28 00	
		<hr/>
	\$2,079 00	
Credit: Amount to be reimbursed by State.....	1,832 72	
		<hr/>
		\$246 28
Total soldiers' relief fund		\$246 28

MOTHERS' AID FUND**Mothers' Aid:****Aid:**

Clark, Mrs. Ellen F.....	\$83 59	
Fickett, Laura M.....	96 92	
Johnson, Helen E.....	27 22	
Laffey, Mrs. Ellen M.....	116 92	
Mace, Florence E.....	84 00	
McCarthy, Mrs. Margaret J.....	94 78	
		<hr/>
	\$503 43	
Credit: State to pay half.....	251 71	
		<hr/>
		\$251 72
Total Mothers' Aid Fund.....		\$251 72

EDUCATION

General Administration:

Office, Superintendent, Medical, Clerk and Committee:

Superintendent:

Salary.....	\$2,733 67
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Committee:

Salaries.....	282 50
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Medical Inspectors:

Salaries.....	972 24
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Clerk:

Salary.....	607 00
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Total superintendent, medical, committee.....	\$4,595 41
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School Agent:

Salary.....	699 96
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Office Supplies:

Supplies:

American School Board, Journal sub- scription.....	\$ 2 00	
Bangor Co-Operative Ptg. Co., envelopes and printing.....	12 00	
Burr, The T. W., Ptg. & Adv. Co., enve- lopes and billing blanks, etc.....	33 98	
Donham, A. G., Maine Register.....	2 50	
Furbush Printing Co., printing filing cards.....	11 25	
Sullivan, Dan T.	85	
Supply Dept., vouchers.....	2 80	
	65 38	

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CITY OF BANGOR

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General Administration—Continued

Office Furniture:

Sullivan, Dan T., filing cases.....	82 00
	<hr/>
Total office supplies.....	\$147 38

Teachers' Salaries:

High school.....	\$37,731 60
Common schools.....	75,066 92

Text Books and Supplies:

Text Books:

Adams, John Q., & Co.....	\$ 15 00
Allyn & Bacon.....	370 19
American Book Co.....	949 68
Appleton, D., & Co.....	47 51
Babb, Edward E., & Co.....	149 46
Birchard, C. C., & Co.....	1 70
Feist, Leo.....	3 80
Fischer, Carl.....	20 77
Fischer, J., & Bro.....	12 58
Fraser, D. A.....	4 75
Ginn & Co.....	829 28
Heath, D. C., & Co.....	134 68
Little, Brown & Co.....	242 70
MacMillan Co., The.....	414 95
Merrill, Chas. E., Co.....	29 16
Oliver Ditson Co.....	5 02
Pitman, Isaac, & Sons.....	85 38
Princeton University Press.....	1 01
Rand, McNally & Co.....	4 50
Sabin, Frances E.....	3 34

Text Books and Supplies—Continued

Sanborn, Benj. H., & Co.....	11 10
School Arts Magazine.....	1 60
Scribner's, Chas., Sons.....	220 00
Silver, Burdett & Co.	439 02
Tracy Music Library.....	17 47
University Publishing Co.....	9 38
World Book Co.....	428 24
	4,452 27

School Supplies:

American Book Co., charts, etc.	\$ 60 86
Atkinson, Mentzer & Co., glencoe covers, etc.....	11 52
Babb, Edward E., & Co., maps, paper, pens, etc.....	181 07
Bacon, John, catalogs, cards.....	184 50
Bangor Co-Operative Ptg. Co., printing school supplies.....	106 00
Bass, J. P., Pub. Co., cards.....	1 25
Birchard, C. C., & Co., music	26 12
Boston Paper Board Co.....	51 58
Bradley, Milton, Co., kindergarten sup- plies.....	683 40
Burr, The T. W., Ptg. & Adv. Co., print- ing cards, forms, etc.	179 79
Curtis & Tupper, pipes, gum, etc.....	2 15
Dillingham, E. F., envelopes, pens, etc...	65 57
Freese, A. Langdon, diploma ribbon, bur- lap.....	51 28
Ginn & Co., min., ess., arith. and lang....	22 60
Glass, Chas. H., Co., cards, etc.	39 25
Hall, Edwin O., charcoal, torsion board..	2 35
Hammett, J. L., Co., paper, pens, pencils, etc.....	816 78
Heath, D. C., & Co.....	1 50
Holden Patent Book Cover Co., port- folios.....	35 00

Text Books and Supplies—Continued

Knott, L. E., Apparatus Co., laboratory supplies.....	54 33
Libby, Carl L., coupon book for typewriter ribbons	36 00
McKinley Publishing Co., maps	14 36
Neidich Process Co., ribbons and carbon	35 00
New England Universal Film Exchange Inc., carbons for stereopticon	4 00
Nichols, E. C., Dry Goods Co., enamel cloth, pins, etc.....	2 15
Palmer, A. N., Co., Palmer methods.....	150 31
Palmer, Herbert L., paper and ink.....	303 70
Prang Co., The, water colors, etc.....	22 66
Rand, McNally & Co.....	6 00
Schirmer, G., music.....	1 36
Silver, Burdett & Co., cards.....	8 25
Staples & Griffin, matches and candles....	1 20
Sullivan, Dan T., paper, envelopes, etc...	238 98
Sweet, Caldwell, Co., laboratory supplies	27 57
Tower Bros. Stationery Co., note books, etc.....	57 50
Woolworth, F. W., Co., bowls.....	80
	————— 3,486 74

Material for Cleaning:

Bangor Broom Co., brooms	\$ 12 00
Bangor Cleaning Co., dustbane.....	61 97
Dallman, H. I., Co., mops, etc.....	74 48
Dunning, R. B., & Co., mops, pails, etc...	2 76
Haynes & Chalmers Co., brushes, pails, etc.....	21 38
Hayward, Chas., & Co., brooms	17 35
Masury-Young Co., soap, nodusto	137 00
Orient Spray Co., Orient Spray.....	92 23
Pioneer Mfg. Co., The, dust absorbent....	78 00

Text Books and Supplies—Continued

Rice & Miller Co., brushes.....	27 65	
Savage, T. R., Co., Bon Ami, soap.....	25 40	
		<hr/>
	\$550 22	
Credit: Tabo.....	1 25	
		<hr/>
		548 97

Furniture and Fixtures:

Rand, McNally & Co., steel cases.....	\$ 25 32	
Royal Typewriter Co., typewriter.....	101 00	
Smith, L. C., & Bros. Typewriter Co., typewriter.....	120 00	
Underwood Typewriter Co., typewriter..	100 50	
		<hr/>
		346 82

Disinfectants:

Curtis & Tupper, chloride of lime.....	\$ 45	
Orient Spray Co., orient spray.....	76 28	
West Disinfecting Co., Coro-Noleum.....	70 54	
		<hr/>
		147 27

Other Supplies:

Andrews Paper Co., T. paper and fixtures	\$ 32 18	
Bragdon, C. M., rake.....	3 00	
Chapman, G. A., kerosene oil.....	1 35	
Dickey, W. P., & Co., coal shovel.....	1 75	
Dunham-Hanson Co., hoes, rakes, etc.....	7 25	
Dunning, R. B., & Co., wheelbarrow, baskets.....	10 85	
Ellis, M. F., & Co., T. paper.....	70 00	
Haynes & Chalmers Co., shovels	4 41	
Hayward, Chas. & Co., paper towels.....	180 88	
Holden Patent Book Cover Co., paper towels.....	76 49	
Lewis, H. R., & Co., dust pans and wash basins.....	4 00	
Lewis, Samuel, polish.....	50 00	

Texts Books and Supplies—Continued

McDonald, H. E., kerosene oil.....	60	
Morse & Co., oil.....	2 50	
Noyes & Nutter Mfg. Co., pails, ash cans	27 58	
Remington Typewriter Co., shield.....	70	
Royal Typewriter Co., shield.....	50	
Savage, T. R., Co., T. paper.....	12 00	
Smith, L. C., & Bros. Typewriter Co., shield.....	75	
Snow & Nealley Co., pump oil.....	5 39	
Underwood Typewriter Co., shields	1 00	
Wood & Bishop Co., pails.....	71	
		493 89
		<hr/>
Total text books and supplies		\$9,475 96

Janitors' Service:

High School.....	\$5,124 54
Common Schools.....	5,894 37

Fuel and Light:

High School:

Coal:

Bacon & Robinson Co.....	\$1,889 78	
Hincks Coal Co.....	1,719 14	
Rice, John H., Co.....	1,156 13	
Stickney & Babcock Coal Co.....	2,642 24	
		<hr/> \$7,407 29

Wood:

Connor Coal & Wood Co.....	\$21 00	
Morse & Co.....	13 50	
		<hr/> 34 50

Fuel and Light—Continued

Gas:

Bangor Gas Light Co.....	156 03
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Total High School.....	<u> </u>	\$7,597 82
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Common Schools:

Coal:

Bacon & Robinson Co.....	\$1,624 57
Connor Coal & Wood Co.....	896 11
Hincks Coal Co.....	1,369 79
Rice, John H., Co.....	1,147 90
Stickney & Babcock Coal Co.....	3,250 78
	<u> </u>
	\$8,289 15

Wood:

Connor Coal & Wood Co.....	\$855 00
Eastern Fuel Co.....	17 00
Morrison, Archie D.....	551 25
Nelligan, P. J.....	75 50
Wilson, Herbert L.....	156 00
	<u> </u>
	1,654 75

Gas:

Bangor Gas Light Co.....	8 84
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Total Common Schools.....	<u> </u>	\$9,952 74
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Maintenance and Repairs:

Carpenter Repairs:

Crocker, Willis A.....	\$ 6 86
Lancaster, M. H., Est.....	1 60
Morse & Co.....	31 77
Morse, F. S.....	109 52
Patten, L. P.....	418 04
Reid, Geo. W.....	264 81
Tucker, Frank E.....	80 00
	<u> </u>
	\$912 60

Maintenance and Repairs—Continued

Painting Repairs:

Arco Co., The.....	\$ 6 40	
Atkins Bros.....	6 85	
Atwood, Horace W.....	48 75	
Berry, John F.....	426 50	
Fairbanks Bros.....	10 05	
Gorham, W. H., Co.....	114 16	
Haynes & Chalmers Co.....	1 93	
Miles, Chas. P.....	53 00	
Morse & Co.....	6 80	
Rice & Miller Co.....	37 45	
Snow & Nealley Co.....	10 49	
		722 38

Plumbing Repairs:

Babb, C. H., & Co.....	\$2,280 42	
Blethen, Dyer & Rounds.....	19 53	
Fairbanks Bros.....	559 09	
Kelley, E. F., & Sons.....	2 28	
Maine Plumbing Co.....	4 21	
Mott, J. L., Iron Works.....	173 40	
Reiley, R. J., Roofing Co.....	11 78	
		3,050 71

Heating Repairs:

Atwood, Horace W.....	\$ 19 50
Babb, C. H., & Co.....	12 15
Blethen, Dyer & Rounds.....	7 86
Bragg, N. H., & Sons.....	85
Dunning, R. B., & Co.....	12 70
Fairbanks Bros.....	246 42
Hanson, Mrs. Peter.....	75
Lewis, H. R., & Co.....	5 64
Maine Plumbing Co.....	11 10
Morrison, Archie D.....	75
Noyes & Nutter Mfg. Co.....	20 19
Penobscot Machinery Co.....	3 20

Maintenance and Repairs—Continued

Perry, W. F.....	53 88	
Union Iron Works.....	23 19	
United States Graphite Co.....	39 40	
Wood & Bishop Co.....	24 53	
Worthington Pump & Machinery Corp.	19 44	
	<hr/>	501 55

Cleaning:

Bangor Cleaning Co.....	\$69 21	
Ellis, Mrs. Florence.....	4 00	
Finnegan, Wm.....	5 00	
Hanson, Mrs. Peter.....	7 00	
Hazelton, B. E.....	4 00	
Hazelton, Mrs. Nellie M.....	4 00	
McNaughton, A. J.....	8 00	
Morrison, Archie D.....	8 00	
Russell, Miss Mary.....	6 00	
Watson, Chas.....	8 00	
	<hr/>	123 21

Furniture:

Bradbury, C. E., freight.....	\$ 21 20	
Hodgkins & Fiske Co.....	116 75	
Kenney Bros. & Wolkins.....	440 40	
Sheldon, E. H., Co.....	323 40	
Underwood Typewriter Co.....	21 50	
	<hr/>	923 25

Other Repairs:

Atkins Bros., glass and setting	\$ 46 28
Bangor Gas Light Co., repairs to heater	19 11
Bangor Window Shade Co., shades	7 88
Blacar, Wm. H., repairing clock	1 25
Bragg, N. H., & Sons, material for repairs	1 24
Dickey, W. P., & Co., cleats, staples, etc.	1 10
Dole Co., The, electrical repairs	13 32
Dore, Willis H., glass and labor.....	11 58

Maintenance and Repairs—Continued

Dunham-Hanson Co., material for repairs	24 21
Dunning, R. B., & Co., material for repairs.....	22 40
Eldridge, Fred E., Co., glass and labor....	14 16
Electric Dept., electrical repairs	71 42
Finn, John B., roof repairs.....	55 80
Gorham, W. H., Co., glass and setting....	22 37
Hanson, Mrs. Peter, general repairs.....	3 50
Haynes & Chalmers Co., material for repairs.....	66 72
Hodgkins & Fiske Co., furniture repairs..	3 50
Howard, The E. Clock Co., clock repairs	6 02
Hoyt, Mrs. Robert, papering room.....	7 70
Hutchings, I. M., & Co., clock repairs.....	3 85
Kent, Benj. C., repairs to gym. apparatus	10 00
Kerr, John H., repairs to lawnmower.....	85
Lynch, M., & Co., repairs to locks and keys.....	71 87
McKenney, Galen, grinding lawnmower	75
Morrison, A. A., repairs.....	16 45
Pendleton, C. E., electrical repairs.....	42 03
Perry, W. F., laying cement floors.....	295 00
Pettingell-Andrews Co., flush sws.....	6 30
Pfaff, Adolf, repairing stop watch.....	2 50
Pol, Bernhard, repairing clock.....	1 75
Powers Regulator Co., The, repairs on air compressor.....	56 88
Schwartz', M., Sons, brass screws.....	28
Stuart-Howland Co.....	21 68
Trask, Allan P., clock repairs.....	10 75
Union Iron Works, repairs.....	27 86
Ward, John M., mason repairs.....	23 39
	991 75
All Other:	
Bangor Window Shade Co., shade cord..	\$ 2 01
Benard, H. C., removing ashes.....	24 00

Maintenance and Repairs—Continued

Bragg, N. H., & Sons, hydrometer, files, etc.....	1 73
Bunker, E. T., removing ashes, etc.....	53 05
Casey, Francis T., removing ashes, etc...	45 00
Dole Co., The, rent of lamps, etc.....	3 82
Dunning, R. B., & Co., basket, lawn seed, etc.....	5 45
Guth, The Arthur E., Piano Co., tuning piano.....	15 50
Hanson, Mrs. Peter, taking off screens, etc.....	7 25
Haynes & Chalmers Co., shovels, step ladder.....	11 15
Hodgkins & Fiske Co., carpet.....	2 93
Hughes, Murtagh, removing ashes	36 00
Morrison, Archie D. cleaning vaults banking, etc.....	148 80
Noyes & Nutter Mfg. Co., cleaning out pipe and chimney.....	3 25
Penobscot Machinery Co., repairs on hoe	75
Royal Typewriter Co., shields.....	1 00
Shaw, E. T., clocks.....	13 00
Smith, L. C., & Bros. Typewriter Co., tabulator stops.....	3 00
Snow & Nealley Co., rope, etc.	20 82
Vose, P. H., Co., wash boiler.....	3 25
Watson, Chas., removing banking, etc...	2 50
White, S. A., removing ashes.....	127 75
Wood & Bishop Co., ash cans, pail.....	9 85
	541 86
Total maintenance and repairs	87,767 31

Manual Training:

Lumber:

Cutter, Leslie W.....	\$ 35 03	
Morison & Cushman.....	14 50	
Morse & Co.....	141 03	
Woodman, C. Co.....	185 68	
		<u>376 24</u>

Tools:

Bragg, N. H., & Sons.....	\$ 8 88	
Chandler & Farquhar Co.....	70 91	
Haynes & Chalmers Co.....	18 72	
Schwartz', M., Sons.....	17 87	
		<u>116 38</u>

Repairs to Tools:

Cutter, Leslie W., filing saws.....	\$ 1 00	
Haynes & Chalmers Co., repairs.....	1 49	
Penobscot Machinery Co., repairs to planer.....	19 65	
		<u>22 14</u>

Miscellaneous Supplies:

Bragg, N. H., & Sons, steel, taps, etc.....	\$32 50	
Dunham-Hanson Co., wood dye, wax, etc.....	8 46	
Freese, A. Langdon, burlap.....	2 50	
Hall, Edwin O., ink, paper, etc.....	45 60	
Hammett, J. L., Co., cane.....	10 67	
Haynes & Chalmers Co., oil, shellac, glue, etc.....	146 75	
Heath, D. C., & Co., mechanical drawing	32 35	
Penobscot Machinery Co., castings.....	22 94	
Riker-Jaynes Drug Store, bandages, etc.	3 46	
Schwartz', M., Sons, lacings.....	5 60	
		<u>310 83</u>

All Other: - -

Derby, G. B., Co., trucking.....		75
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Total manual training.....		<u>826 34</u>
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Domestic Science:

Dry Goods:

Adams Dry Goods Co.....	\$70 29	
Freese, A. Langdon.....	21 24	
		\$91 53

Groceries:

Bangor Dairy Co.....	\$64 66	
Chapman, G. A.....	1 58	
Fleming, John F.....	43 97	
Fox, Elmer R.....	19 43	
Frank Grocery Co.....	94 41	
Hall, Fred T., & Co.....	67	
Jones, C. S., Sanitary Market Co.....	8 36	
Jones Sea Food Market.....	85	
Lynch's Leading Market.....	7 99	
McDonald, H. E.....	37 32	
Morrill's Fish Market.....	7 56	
Murray Bros. Co.....	9 05	
Robinson, S. H., & Son.....	45 33	
Staples, Roger.....	7 74	
Winchester, C. F.....	77	
		349 69

Ice:

Bangor Ice Co.....	\$1 90	
Getchell Bros.....	5 90	
		7 80

Milk and Cream:

Hall, Fred T.....	\$ 1 10	
Lewis, L. L.....	20 71	
		21 81

Laundry:

Porter-Parsons Co.....		2 54
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Equipment:

Singer Sewing Machine Co., sewing machines.....		48 45
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Domestic Science—Continued

Miscellaneous:

Bangor Stoneware Co., jars.....	\$ 3 75	
Bass, J. P., Pub. Co., ptg. invitations to exhibit.....	4 75	
Bean, O. Crosby, patterns.....	2 80	
Coffin, C. W., patterns.....	5 70	
Curtis & Tupper, Keep-em-Fresh.....	1 00	
MacMillan Co., The, cook books.....	35 61	
McDonald, H. E., brass polish.....	3 85	
Nichols, E. C., Dry Goods Co., books and patterns.....	2 80	
Rice & Miller Co., paper.....	9 00	
Sullivan, Dan T., order book and counter book.....	1 85	
Vose, P. H., Co., jars, dishes, etc.....	13 43	
Woolworth, F. W., Co., coat hangers.....	1 50	
		86 04

Total domestic science.....		\$607 86

Night School:

Salaries..... \$779 50

Supplies:

Domestic Science:

Bangor Ice Co., ice.....	\$ 50
Bangor Stoneware Co., jars.....	75
Curtis & Tupper, Keep-em-Fresh.....	50
Fleming, John F., groceries.....	8 69
Fox, Elmer E., groceries.....	4 12
Frank Grocery Co., groceries.....	9 86
Getchell Bros., ice.....	2 50
Lewis, L. L., milk and cream.....	3 66

Night School—Continued

Lynch's Leading Market, broilers, berries	4 82	
Murray Bros. Co., flour.....	2 09	
Porter-Parsons Co., laundry.....	1 26	
Robinson, S. H., & Son, groceries.....	9 52	
Vose, P. H., Co., cooking dishes	4 86	
Bangor Dairy Co., oleo and eggs.....	29 34	
	<hr/>	\$82 47
School Supplies:		
American Book Co., charts.....		3 00
		<hr/>
Total supplies.....		\$85 47

Incidental:**Trucking and Freight:**

Bradbury, C. E., freight.....	\$77 28	
Bunker, E. T., trucking.....	1 25	
Frost, V. M., trucking.....	1 00	
Morrison, A. D., trucking.....	9 25	
Peavey, F. L., trucking.....	31 23	
Ridley, F. C., Baggage Transfer Co., trucking and freight.....	2 10	
	<hr/>	\$122 11
Teams:		
Kane, Michael.....	\$103 50	
Moore, L. P.....	1 50	
	<hr/>	105 00
Telephone:		
New England Tel. & Tel. Co.....		143 40
Insurance:		
Baker & Hodge.....	\$114 50	
Blake, Barrows & Brown.....	525 70	
Boyd, J. Herbert.....	92 84	
Byrnes, P. J.....	50 52	

Incidental—Continued

Curran, Wm. F., Co.....	25 20	
Gallagher, Hugh T.....	75 72	
Kirstein, Louis, & Sons.....	190 04	
Lord, Henry & Co.....	50 64	
McClure, J. W., & Son.....	254 23	
Palmer, W. W.....	124 64	
Pearl & Dennett Co.....	22 07	
Singleton, J. F., Co.....	58 88	
Somers, L. W., Co.....	152 05	
Stewart, Chas. M.....	134 84	
		1,871 87
School Census:		
Boyd, Elmer T., Ward 7.....	\$43 84	
Congdon, H. E., Ward 3.....	40 10	
Gray, Lee T., Ward 4.....	27 60	
Hayes, Alden B., Ward 5.....	20 63	
Kent, Benj. C., Ward 1.....	34 08	
Mitchell, Peter W., Ward 3.....	21 72	
Wark, Wm. L., Ward 6.....	18 54	
		206 51
Printing:		
Bangor Co-operative Ptg. Co., programs teachers' directory.....	\$48 00	
Burr, The T. W., Ptg. & Adv. Co., names in diplomas and badges.....	35 95	
Furbush Printing Co., programs.....	48 43	
Howard & Brown, names in diplomas.....	37 51	
		169 89
Basket Ball and Foot Ball Outfits:		
Crosby, S. L., Co.....		12 80
Trips out of City:		
Eaton, Hal R.....	\$13 25	
Wormwood, D. Lyman.....	14 00	
		27 25

Incidental—Continued

All Other:

Adams Dry Goods Co., bunting for graduation.....	\$ 3 19
Bangor Publishing Co., adv. bids for plumbing, painting, etc.....	8 23
Bass, J. P., Publishing Co., do.....	6 17
Bolton, Harry I., silver band for gravel and lettering.....	2 67
Brown, W. I., tickets.....	8 00
Burr, The T. W., Ptg. & Adv. Co., punching paper.....	70
Cayting, A. Stanley, expenses—speaking contest.....	6 17
Congdon, H. E., expenses—debating team.....	4 00
Dickey, W. P., & Co., padlocks.....	1 20
Dunham-Hanson Co., wrapping paper and twine.....	9 32
Earle, Wm. H., rubber stamp.....	1 45
Gerrity, J. F., & Co., picture and frame..	3 25
Goldthwait, John, taking tickets.....	3 00
Grant, Earl S., expenses—speaking contest.....	3 50
Gray, Edward, work on stage.....	30 00
Gray, Lee T., expenses—debating team..	10 08
Hammett, J. L., Co., emergency kits.....	36 00
Haynes & Chalmers Co., nails, oil	75
Heal, L. G., making place for guns.....	4 39
McNaughton, A. J., putting in wood.....	1 00
Morrison, A. D., Xmas trees.....	7 50
Morse & Co., lumber.....	9 63
Oldham, S. R., transportation—judge Junior Exhibition.....	2 00
Rice & Miller Co., paper.....	3 51
Scribner, Miss Stasia, expenses—speaking contest.....	6 17

Incidental—Continued

Stewart, Chas. M., flags and holders.....	19 60	
Sullivan, Dan T., year book.....	99	
Towle, J. N., & Co., salt.....	11 70	
Wentworth, A., surveying wood.....	4 00	
Winchester, C. F., oil.....	55	
		208 72

Total incidental..... \$2,867 55

Conveyance:

Conveyance:

Colburn, Edwin S.....	\$49 00	
Smith, Mrs. F. H. C.....	259 00	
		\$308 00

Total conveyance..... \$308 00

Water:

Drinking Cups:

Stone & Forsythe Co.....	\$86 25	
		\$86 25

Water Bottles and Coolers:

Vose, P. H., Co.....	\$1 85	
Wood & Bishop Co.....	4 80	
		6 65

Total water..... \$92 90

Rent of Buildings for Kindergarten:**Rent:**

Fessenden, C. P.....	\$ 62 50
Greeley, Miss Clara B.....	62 50
Hoyt, Robert W.....	325 00
Small, Mrs. M. L.....	50 00
	<hr/>
	\$500 00

Total rent of buildings for kindergarten.....	\$500 00
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LIBRARIES**Libraries:**

Appropriation by City.....	\$8,300 00
Granted by State.....	841 99

RECREATION**Parks and Gardens:**

Salaries.....	\$3,147 78
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Supplies:

Dunning, R. B., & Co., fertilizer and lawn seed.....	\$15 63
Eastern Cement Co., cement.....	3 53
Hughes, Murtagh, sand, gravel, loam.....	9 00
Schwartz', M., Sons, emery.....	40
Supply Dept., vouchers, pay rolls.....	1 15
	<hr/>
	29 71

Repairs:

Bragg, N. H., & Sons, bolts.....	\$ 1 87
Cutter, Leslie W., repairs.....	10 90

Parks and Gardens—Continued

Dickey, W. P., & Co., saw handle and screws.....	50	
Dunning, R. B., & Co., material for repairs.....	6	93
Haynes & Chalmers Co., repairs for lawn-mower.....	1	37
Heal, L. G., repairs	1	00
McKenney, Galen, repairs for lawn-mower, filing saws.....	15	90
Park Garage, repairs to lawn-mower.....	7	55
Peavey Mfg. Co., repairs to lawn-mower	20	40
Penobscot Machinery Co., repairs to lawn-mower	12	17
Rice & Miller Co., paint and brushes.....	7	05
Schwartz', M., Sons, saw handles.....	40	
Shannon & Carver, repairs to lawn-mower	1	50
	<hr/>	87 54

Equipment:

Dickey, W. P., & Co., tools.....	\$ 6	80	
Dunning, R. B., & Co., lawn-mowers, rakes, etc.....	31	99	
Haynes & Chalmers Co., lawn-mowers, files.....	19	84	
Highway Dept., road drag.....	10	00	
Morse & Co., ladder.....	11	40	
Snow & Nealley Co., rope.....	31	98	
	<hr/>	\$112	01
Credit: Lawn-mower parts.....	1	00	
	<hr/>		111 01

Plants:

Allen, Mrs. Thomas.....	76	12
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Parks and Gardens--Continued

All Other:

Dickey, W. P., & Co., padlocks, oil	\$3 80
Dunning, R. B., & Co., oil, scythe-stone..	1 26
Earle, Wm. H., police badge.....	1 00
Haynes & Chalmers Co., oil and can.....	2 11
McNeil, Peter, trucking.....	50
Park Garage Co., oil.....	2 40
Sweet, Caldwell, Co., salt petre.....	30
	<hr/>
	11 37

Total parks and gardens.....	<hr/>	\$3,463 53
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Moth Extermination:

Salaries and wages.....	\$180 38
Making and mailing Brown Tail Moth Notices:	
Julia E. O'Connell and Estelle Burton....	\$75 00
Printing:	
Bacon, John H.....	22 25
Stamps:	
Bangor Post Office.....	40 24
	<hr/>
Total moth extermination.....	\$317 87

Celebrations and Entertainments:

Band Concerts:	
Bangor Band.....	\$600 00

Celebrations and Entertainments—Continued

All Other:

Patriotic Demonstration April 4th:

Bangor Railway & Electric Co., lamps....	\$ 1 50	
Berry & Smith, sewing carpet for Auditorium.....	10 40	
Burr, The T. W., Ptg. & Adv. Co., printing songs and tickets.....	14 75	
Cochran, W. S., organist.....	6 00	
Committee on Public Safety, transportation of U. of M. cadets.....	104 00	
Maine Central R. R. Co., tickets from Augusta and return.....	326 80	
Pierce, A. P., rent of Auditorium, moving chairs, etc.....	296 40	
Ross, Walter, & Co., pilot and shifting U. S. S. Benham.....	40 00	
		799 85
Total all other.....		\$799 85

UNCLASSIFIED

Damages to Persons and Property:

Damages to Property:

Chalmers, Mrs. Hannah.....	\$ 42 80	
Deane, James E.....	100 00	
Faulkner, Mrs. H.....	15 00	
Mulvey, Mrs. D. P.....	275 00	
Peavey, Mrs. Ernest.....	4 40	
Wynaught, Chas. C.....	26 00	
		\$463 20
Total damages to persons and property.....		\$463 20

UNCLASSIFIED—Continued

Memorial Day:

Garnsey, F. A., Trustee.....	\$300 00
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Contingent—Payments not included in other Classification:

Harbor Master:

Salary.....	\$400 00
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Superintendent of Clocks:

Salary.....	\$150 00
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Clock Repairs:

Gamble, David E.....	13 25
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Pensions:

Bell, Michael.....	\$300 00
Blake, Elisha S.....	300 00
Collins, Dennis.....	300 00
Curran, Nicholas.....	300 00
Loftus, John.....	179 17
McDonald, Mrs. Ellen.....	300 00
Riley, Mrs. Elizabeth.....	289 52
Toole, Michael.....	300 00

 2,268 69

Care of Children—County Agent:

Adams, Lester, M. D., Wassermann test for Thelma Simmons.....	\$10 00
Aumand, Mrs. Emily, board of Leslie Sawyer.....	17 50
Besse-Ashworth Co., clothing and shoes..	108 08

UNCLASSIFIED—Continued

Betterley, Mrs. Ida M., board of Ezra Page.....	18 00
Bigelow, Mrs. B. M., board of Helen Harris.....	34 84
Briggs, Dr. E. F., dental work for Ezra Page.....	1 50
Bussell & Weston Co., clothing, Avis Dodwell.....	16 34
Clark, Chas. E., clothing.....	102 30
Coffin, C. W., hat, Avis Dodwell.....	2 50
Connors, John, Shoe Co., shoes and rubbers.....	4 50
Dolliver, Mrs. B. J., shoes.....	17 75
Farrington, Mrs. M. E., board Ezra Page	29 00
Freese, A. Langdon, clothing.....	62 86
Frost, Eva M., board of children	111 85
Good Samaritan Home Asso., board of Ava Bryant.....	122 00
Grant, Mrs. Welden, board of children....	88 25
Hamm, Flora E., board of Haney children	430 75
Hazelton, Mrs. Nellie M., board of Clara Page.....	57 00
Hunt, Barbara, M. D., medical services..	17 00
Jaynes Drug Stores, prescription for Page child.....	75
Johnson, C. R., board Thelma Simmons	83 58
Kennedy, Mrs. M. J., board of Evelyn Inman... ..	4 30
Lambert, Barbara A., board Mary Aranovitch.....	76 71
Lambert, Mrs. Arthur H., board Leslie Sawyer.....	22 72
Liggett, Louis K., Co., prescription Winfield Sawyer.....	2 60
Maine Central R. R. Co., transportation	7 94

UNCLASSIFIED—Continued

Moore, E. S., board Avis Dodwell.....	25 00
Mosher, Mrs. C. H., board Edna Page...	135 00
New England Home for Little Wanderers, board and transportation Avis Dodwell.....	18 33
Nichols, E. C., Dry Goods Co., clothing shoes.....	25 50
O'Brien, Carl R., M. D., examination of children.....	11 00
Porter, Miss Marion, transportation.....	16 08
Powers, Mrs. Marion, transportation.....	8 59
Quinn, Edward M., auto hire.....	12 50
Quinn, Wm. J., auto hire.....	3 00
Randall, Mrs. Nellie F., board children..	181 58
Ray, Mrs. Annie, board Clara Page.....	36 00
Robinson, E. L., board children.....	206 57
Robinson, June B., D. D. S., dental work Edna Page and Leslie Sawyer.....	3 50
St. Michael's Orphanage, board of chil- dren.....	301 00
Sawyer Boot & Shoe Co., shoes.....	1 12
Shea, Mary R., hat for Thelma Simmons	1 75
Skinner, Otis, Optical Co., glasses for Edna Page and Evelyn Inman.....	12 00
Small, A. E., M. D., medical attendance Edna Page.....	2 00
Smith, W. L., D. D. S., glasses for Avis Dodwell.....	4 00
Springham, Miss Elizabeth E., trans- portation.....	4 70
Sweet, Caldwell, Co., medicine	5 05
Whitney, Walter E., M. D., glasses for Avis Dodwell.....	4 50
Wilder, Edith, transportation, etc.....	4 55

UNCLASSIFIED—Continued

Williams, Mrs. J. P., board of Winfield		
Simmons.....	38	50
Wood & Ewer Co., clothing.....	26	23
	<hr/>	
	\$2,538	67
Credit: Amount to be paid by State		
and City of Brewer.....	640	88
	<hr/>	
	\$1,897	79
Water Furnished Charitable Institutions:		
Water Department.....	2,360	00
Mount Pleasant Hearse;		
Jones, H. C., repairs.....	\$59	00
Mason, John, & Son, hang up hearse....	3	00
	<hr/>	
	62	00
Silent Policemen:		
Blethen, Dyer & Rounds, labor.....	\$12	72
Eastern Steamship Corp., freight.....	1	83
Eldridge, Fred E., Co., painting.....	28	78
Gulf Refining Co., kerosene oil.....	6	10
Haynes & Chalmers Co., lanterns and globes.....	30	87
Standard Oil Co., of N. Y., kerosene oil	12	73
Traffic Sign & Signal Co., signals, flags, etc.....	35	55
	<hr/>	
	\$128	58
Credit: Damage		
	5	25
	<hr/>	
	123	33
City Sealer:		
Gurley, W. & L. E., dies, seals, etc.....	5	64

UNCLASSIFIED—Continued

Garden Instructor:		
Farnham, H. E.....		225 00
 Bangor Yacht Club:		
Erickson, Frank G., Treas.....		100 00
 Annual Reports:		
Burr, The T. W., Ptg. & Adv. Co.....		902 79
 Soldiers' Aid Fund:		
Burr, The T. W., Ptg. & Adv. Co., print- ing blanks.....	\$ 14 10	
Sullivan, Dan T., file.....	6 13	
Supply Dept., vouchers, clips.....	2 98	
Transfer.....	232 27	
	<hr/>	255 48
 Insurance—Court Street Building:		
Baker & Hodge.....	\$101 00	
Byrnes, P. J.....	45 40	
McClure, J. W., & Son.....	101 00	
Pearl & Dennett Co.....	21 70	
	<hr/>	269 10
 All Other:		
Bacon, John H., printing letters, etc., for Milk Inspector.....	\$10 05	
Bass, J. P., Publishing Co., notice to garden thieves, etc.....	14 95	
Cameron, G. F., ashes for Abbot Sq. pump lot, express.....	1 01	
Hughes, Murtagh, grading walks around High School.....	50 00	
Lord, Henry, & Co., insurance on store- house, Second St.....	15 52	

UNCLASSIFIED—Continued

New England Tel. & Tel. Co., telephone on account Halifax disaster.....	12 87	
Quinn, Edward M., auto hire.....	2 50	
Supply Dept., requisition book	15	
Tyler, L. C., & Sons Co., insurance on Armory.....	37 50	
Ward, John M., repairing drinking foun- tain.....	9 07	
	<hr/>	153 62
Total contingent.....		<hr/> \$9,186 69

PUBLIC SERVICE ENTERPRISES

Electric Department:

Maintenance and Operation:

Salaries and Wages.....	\$16,091 30
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Fire Alarm:

American Express Co., express.....	\$ 3 45
Bryant, W. C., watch oil.....	30
Derby, G. B., Co., trucking.....	25
Dunning, R. B., & Co., pipe and thread..	1 09
Farley, C. H., & Co., glass for shelves.....	133 50
Gamewell Fire Alarm Tel. Co., repairs for bell striker.....	53 68
Haynes & Chalmers Co., brush.....	20
Holtzer-Cabot Electric Co., brushes, etc.	11 70
Maine Central R. R. Co., freight	95
Mulvany Bros., canvas cover.....	3 00
Priest, H. K., denatured alcohol.....	20

Electric Department—Continued

Westinghouse Electric Co., repairs to armature and commutator.....	40 10	
Wetmore-Savage Co., fuses and coils.....	36 47	
		284 89

Police Signals:

American Express Co., express.....	\$ 81	
Gamewell Fire Alarm Tel. Co., repairs for police box.....	67 15	
Penobscot Machinery Co., repairs	3 40	
Pettengill-Andrews Co., globes	8 95	
Schwartz', M., Sons, emery blotter	10	
Sweet, Caldwell, Co., sal ammoniac.....	18 88	
Wetmore-Savage Co., pencil zinc.....	14 00	
		\$113 29
Credit:	62 81	
		50 48

Team Equipment:

Charity Dept., hay.....	\$52 57	
Grant, Asa T., horse shoeing.....	7 90	
Hamm, E. Earl, straw.....	69	
Haynes & Chalmers Co., axe.....	1 47	
Hopkins, A. R., Co., oats.....	129 49	
Kane, Michael, repairs on sled	4 00	
Madden, M. J., Harness Co., harness repairs.....	13 95	
Moor, Geo. L., & Son, straw.....	2 64	
Morse & Co., salt brick.....	95	
Thoms, H. P., repairs to sled.....	6 50	
Utterback-Gleason Co., Inc., harness repairs.....	12 55	
White & Winchester, horse shoeing	12 05	
		244 76

Electric Department—Continued

Inside Wiring:

American Express Co., express.....	\$ 7 41
Atlantic Express Co., express.....	2 36
Derby, G. B., Co., trucking.....	2 25
Dole Co., The, supplies.....	56 02
Eastern Steamship Corp., freight	45
Dunning, R. B., & Co., nipples and coupling.....	24
Maine Central R. R. Co., freight.....	5 62
Pettingell-Andrews Co., wire, fuses, etc.	221 05
Pendleton, C. E., supplies.....	100 39
Wetmore-Savage Co., X-ray, shades, etc.	126 02
Wood & Bishop Co., stove bolts.....	10
	<hr/>
	\$521 90
Credit:.....	60 44

461 46

Line Material:

American Express Co., express.....	\$ 9 67
Atlantic Express Co., express.....	1 95
Bragg, N. H., & Sons, steel, etc.....	130 14
Cutter, Geo., Co., holders.....	2 00
Derby, G. B., & Co., trucking.....	3 50
Dickey, W. P., & Co., snaps.....	90
Dole Co., The, supplies.....	3 37
Dunning, R. B., & Co., coupling.....	34
Eastern Steamship Corp., freight	15 74
Haynes & Chalmers Co., screws, diston saw.....	3 93
Maine Central R. R. Co., freight	8 13
New England Tel. & Tel. Co.	35 46
Pettingell-Andrews Co., wire, transformers, etc.....	550 91
Snow & Nealley Co., galv. bolts.....	2 94
Stuart-Howland Co., St. fixtures, wire....	511 30

Electric Department—Continued

Wahn, Geo. H., Co., wire, sockets.....	77 73
Western Electric Co., bolts, washers.....	94 28
Westinghouse Electric & Mfg. Co., tape, arrestors.....	41 90
Wetmore-Savage Co., wire, arrestors, etc.	361 96
	<hr/>
	\$1,856 15
Credit:.....	115 30
	<hr/>
	1,740 85

Power Station:

Adams Dry Goods Co., T. paper.....	\$ 4 41
American Express Co., express	49 41
Bangor Steam Laundry, washing rags....	15 81
Blake, Barrows & Brown, boiler insurance	37 00
Boyd, J. Herbert, insurance.....	56 50
Bragg, N. H., & Sons, steel, screws, etc.	26 92
Bright, J. M., insurance.....	24 75
Brown Bros., wiping rags.....	16 00
Brown & White Co., brooms.....	1 80
Cassidy, John Co., soap.....	3 00
Citizens Ice Co., ice.....	39 75
Derby, G. B., Co., trucking.....	24 75
Dickey, W. P., & Co., shade cord.....	25
Dole Co., The, supplies.....	4 11
Dunning, R. B., & Co., lawn mower, hardware.....	36 86
Eagle Oil & Supply Co., grease.....	54 45
Eastern Steamship Corp., freight	19 90
Falls Clutch & Machinery Co., couplings, etc.....	781 81
Gallagher, Hugh T., insurance.....	16 20
Garlock Packing Co., rings, gaskets, etc.	15 76
Haynes & Chalmers Co., oil, nails, etc....	3 38
Lombard-Governor Co., oil, leather cups, etc.....	83 31

Electric Department—Continued

Lord, Henry, & Co., insurance.....	13 50
Maine Central R. R. Co., freight.....	6 41
New England Tel. & Tel. Co.....	76 11
Palmer, W. W., insurance.....	18 00
Penobscot Machinery Co., repairs	94 70
Platt Iron Works, copper rivets.....	13 00
Postal Telegraph Cable Co., telegram.....	30
Robinson, Wm. C., & Son Co., oil.....	128 68
Schwartz', M., Sons, leather belts, wire, etc.....	362 13
Shannon & Carver, repairs to tools.....	1 15
Singleton, J. F., Co., insurance.....	18 00
Snow & Nealley Co., oil, rope clips.....	9 60
Somers, L. W., Co., insurance.....	13 50
Standard Oil Co. of N. Y., kerosene oil...	5 00
Stewart, Chas. M., insurance.....	9 00
Thompson Mfg. Co., cogs.....	88 90
Union Iron Works, repairs, grease.....	397 27
United States Graphite Co., brushes.....	5 73
Vacuum Oil Co., oil.....	72 48
Westinghouse Electric & Mfg. Co., meter paper, repairs to clock.....	54 31
Wood & Bishop Co., oil tank, iron.....	15 25
	<hr/>
	\$2,719 15
Credit: Cost of lighting Bangor & Brewer bridge.....	300 00
	<hr/>
	2,419 15

Sub-Station:

Adams Dry Goods Co., T. paper.....	\$ 4 41
American Express Co., express.....	95
Babb, C. H., & Co., repairs.....	28 55
Baker & Hodge, insurance.....	7 00
Bangor Gas Light Co., gas.....	8 25
Bangor Vulcanizing Co., gasoline.....	2 80
Boyd, J. Herbert, insurance.....	27 12

Electric Department—Continued

Bragg, N. H., & Sons, drills and screws....	71
Bright, J. M., insurance.....	7 00
Cassidy, John, Co., soap, gold dust.....	7 00
Columbia Towel Supply Co., towels.....	11 00
Crosby, S. L., Co., sponge.....	50
Cutter, Leslie W., repairs.....	12 20
Derby, G. B., Co., trucking.....	2 00
Dole Co., The, flashlight, batteries.....	1 80
Dunning, R. B., & Co., material for repairs.....	15 29
Eastern Steamship Corp., freight.....	45
Estabrook's, G. G., Sons, flag.....	6 00
Fleming, John F., kerosene oil.....	1 80
General Electric Co., ink, etc.....	89
Haynes & Chalmers Co., hammer, nails, etc.....	9 05
Johns Manville Co., H. W., fire exting- uishers.....	10 00
Kirstein, Louis, & Sons, insurance.....	13 56
Maine Plumbing Co., repairs.....	18 05
New England Tel. & Tel. Co.....	12 17
Palmer, W. W., insurance.....	7 00
Pearl & Dennett Co., insurance.....	7 00
Rice & Miller Co., paint and turpentine..	2 55
Schwartz', M., Sons, solarine polish, taps, etc.....	4 29
Snow & Nealley Co., sweeper.....	8 82
Somers, L. W., Co., insurance.....	14 00
Sullivan, Dan T., pencils.....	49
United States Graphite Co., brushes.....	2 66
Western Electric Co., volt meter.....	8 57
	263 93

Coal and Wood:

Bacon & Robinson Co., coal.....	\$385 36
Rice, John H., Co., coal.....	205 65
Stickney & Babcock Coal Co., coal.....	502 82
Water Dept., coal.....	576 83
	1,670 66

Electric Department—Continued

Lamps Incandescent—Street Series:

Dole Co., The.....	1,736 21
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Lamps Multiple in Buildings:

Dole Co., The.....	\$595 69
Credit.....	284 71
	<hr/>
	310 98

Arc Lights:

American Express Co., express	\$ 77
Cutter, Leslie W., repairs to ladder.....	95
Derby, G. B., Co., trucking.....	75
Dole Co., The, couplings.....	2 12
General Electric Co., electrodes, magnets	417 29
Maine Central R. R. Co., freight	2 38
Pettingell-Andrews Co., inner globes	62 06
Wetmore-Savage Co., globes	58 41
Wood & Bishop Co., tin discs.....	18 25

\$562 98

Credit: B. R. & E., globes, and electrical box.....	23 69
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539 29

Miscellaneous:

Burr, The T. W., Ptg. & Adv. Co., printing letterheads.....	\$ 5 00
Eastern Steamship Corp., freight	1 11
Electrical World, subscription.....	3 00
Maine Central R. R. Co., freight	1 14
New England Tel. & Tel. Co., moving phone.....	5 00
Pettingell-Andrews Co., batteries.....	35 63
Supply Dept., vouchers, pay rolls.....	8 95
Wetmore-Savage Co., batts.....	35 63

95 46

Electric Department—Continued

Auto Maintenance:

American Express Co., express.....	\$	79
Bangor Vulvanizing Co., gasoline and repairs.....		176 69
Bragg, N. H., & Sons, material for repairs		16 95
Byrnes, P. J., insurance.....		78 65
Crosby, S. L., Co., exchange of car, repairs.....		325 36
Cutter, Leslie W., repairs.....		60
Dole Co., The, lamps.....		2 49
Gallupe, M. D., driver's license.....		2 00
Johns-Manville Co., H. W., fire exting- uishers.....		10 00
McNeil, Leo. E., repairs.....		112 76
Mulvany Bros., canvas cover		7 50
State of Maine, registration.....		2 06
Strauss, Jos. Co., oiler.....		1 66
Strout's Garage, repairs.....		63 62
United States Tire Co., tire.....		19 77
Wetmore-Savage Co., starter, shock absorber.....		35 56
		<hr/>
		\$856 46
Credit: Electric starter.....		25 00
		<hr/>

831 46

Underground Construction:

Babb, C. H., & Co., labor and bushing....	\$	42
Bragg, N. H., & Sons, steel, iron, etc.....		10 07
Brooks Brick Co., brick.....		75 00
Cassidy, T. F., & Son, manholes, angle irons.....		42 00
Cobb, G. F., trucking.....		3 00
Curran, Tom, labor.....		5 00
Cutter, Leslie W., labor, plugs.....		2 00
Derby, G. B., Co., trucking.....		7 00

Electric Department—Continued

Dole Co., The, conduit bends	72 62	
Dunning, R. B., & Co., axes, shovels, etc.	3 41	
Eastern Cement Co., cement.....	111 08	
Fibre Conduit Co., conduit.....	176 40	
Fleming, Joh.: F. kerosene oil.	1 20	
Haynes & Chalmers Co., nails, pails. etc.	1 27	
Hodgins, E. C., & Sons, rent of cement mixer.....	21 00	
Johns-Manville, H. W., Co., conduit.....	335 40	
Largay, J. E., team and gravel	68 00	
Maine Central R. R. Co., freight	36 63	
McCann, James, trucking.....	5 00	
Morse & Co., lumber.....	37 28	
Pay Roll.....	386 95	
Penobscot Machinery Co., manhole and head.....	19 88	
Rogan, John, stone cutter.....	2 80	
Union Iron Works, manholes, labor.....	247 83	
		<hr/>
	\$1,671 24	
Credit: B. R. & E. Co.....	368 03	
		<hr/>
		1,303 21
Compensation Insurance:		
Byrnes, P. J.....		467 50
		<hr/>
Total Electric Department.....		\$28,511 59

Water Department:

Maintenance and Construction:

Expense:

Addressograph Co., adds. repairs.....	\$ 1 69
Arco Co., The, floorcote.....	8 80

Water Department—Continued

Arnold, J. M., Shoe Co., rubber boots.....	29 84
Ault & Wiborg Co., carbon paper.....	5 88
Babb, C. H., & Co., vol. grate.....	3 50
Bachelder, J., pair traces.....	5 50
Bacon & Robinson Co., coal.....	857 32
Baker & Hodge, insurance	66 88
Baker-Vawter Co., binder, index, etc.....	37 88
Bangor Co-Operative Ptg. Co., printing booklets of water rates, bills.....	117 00
Bangor Publishing Co., subscription, adv. water rates.....	56 56
Bangor Vulcanizing Co., auto repairs	7 20
Barrett Co., The, coal tar.....	6 70
Bass, J. P., Publishing Co., adv. water rates.....	31 67
Berry & Smith, sail duck, etc.....	8 17
Blake, Barrows & Brown, boiler insur- ance.....	74 00
Bond, Harold L. Co., hose, etc.....	285 45
Boyd, J. Herbert, insurance.....	218 10
Bracey, Frank E., care of stand-pipe.....	6 00
Bradbury, C. E., trucking	21 75
Bragg, N. H. & Sons, steel, shovels, etc...	439 83
Brewer, City of, tax.....	31 28
Brewer Hardware Store, lime.....	12 00
Bristol Co., The, charts.....	7 47
Brooks Brick Co., brick.....	33 60
Brown, W. I., relief for sundry bills paid..	3,234 04
Brown & White Co., blanket	2 85
Burrill, G. E., repairs to stand-pipe.....	12 39
Burr, The T. W., Ptg. & Adv. Co., print- ing.....	172 00
Burroughs Adding Machine Co., adding machine and repairs.....	420 70
Byrnes, P. J., insurance.....	66 86
Caird, James M., services of self and asst.....	2,090 35

Water Department—Continued

Carter, Ralph E., & Co., welding valve..	1 50
Chandler & Co., chairs, etc.....	15 00
Chapin, Arthur Co., kerosene oil, soap- met.....	78 30
Charlton, Wm. J., care of stand-pipe.....	18 00
Citizens Ice Co., ice.....	29 10
Clifford, Fred H., readers, etc.....	7 25
Columbia Towel Supply Co., towels	13 80
Connor Coal & Wood Co., wood.....	3 50
Crosby, S. L., Co., twisters, club.....	4 00
Cutter, Leslie W., repairs.....	28 93
Dickey, W. P., & Co., nails, spikes, axe....	19 75
Dillingham, E. F., office supplies.....	16 80
Dole Co., The, lamps, electrical repairs..	98 73
Dubois, H. W., & Co., coupons for ribbons.....	13 50
Dugan, P. T., & Co., repairing blankets, gall cure, etc.....	5 50
Dunham-Hanson Co., gasoline, saw, etc.	15 04
Dunning, R. B., & Co., pipe, etc.....	1,077 41
Dwinal, C. F., D. V. S., veterinary.....	3 75
Earle, Wm. H., police badges.....	4 00
Eastern Cement Co., cement.....	38 26
Eastern Fuel Co., wood.....	24 00
Ebbeson, Arvid L., electrical repairs.....	1 83
Eddy Valve Co., valves and boxes.....	231 84
Eldridge, Fred E., Co., painting repairs..	132 86
Electric Dept., lamps and repairs.....	46 69
Electro Bleaching Gas Co., chlorine.....	1,308 63
Fairbanks Bros., new copper boiler, repairs.....	48 09
Freeland-Mann Co., insurance.....	69 00
Furbush Printing Co., printing	25 75
Garlock Packing Co., graphite, valves, etc.....	86 00
General Electric Co., brushes.....	2 50
Getchell Bros., ice.....	11 50

Water Department—Continued

Glass, C. H., & Co., printing.....	12 90
Gorham, W. H., Co., paint and picture wire.....	2 00
Harvey Hardware Co., brushes.....	1 55
Haynes & Chalmers Co., material for repairs.....	249 88
Hayward, Chas., & Co., brooms.....	10 29
Hincks Coal Co., coal.....	133 89
Hodgkins & Fiske Co., cutting table.....	1 75
Hopkins, A. R., Co., lime.....	498 00
Ingersoll-Sergeant Drill Co., bushings...	2 36
Jordan, Edward, repairing harness.....	2 30
Kirstein, Louis, & Sons, insurance.....	576 31
Lancaster, M. H., Est., carpenter repairs	56 92
Largay, J. E., sand.....	5 00
Lawson-Spinney Co., straw.....	3 87
Leighton & Leland, horse shoeing.....	9 40
Leighton Plumbing Co., melting kettle...	1 00
Leighton & Smith, horse shoeing.....	3 55
Library Bureau, cards.....	13 80
Linn's, W. H., Garage, auto repairs.....	168 38
Lombard-Governor Co., leather cups, oil	73 65
Lord, Henry, & Co., insurance.....	94 40
Lynch, M., & Co., keys.....	6 40
Matthews, James H., & Co., cushion for dater, etc.....	1 83
McKenney, Galen, filing saws.....	15 60
Megquier & Jones Co., water meter.....	34 00
Moor, Geo. L., & Son, hay.....	1 06
Morse & Co., lumber.....	3,170 85
Murch, Alfred L., M. D.V., Veterinary...	4 50
National Lead Co., pipe.....	70 11
National Meter Co., meter repairs.....	15 24
Neidich Process Co., ribbons.....	2 45
New England Tel. & Tel. Co.....	171 15
New York Continental Jewell Filtration Co., pipes and valves.....	31 24

Water Department—Continued

Noyes & Nutter Mfg. Co., pipe, oil heater, etc.....	50 59
O'Connell, Daniel D., labor on watering trough.....	8 00
Orient Spray Co., Orient spray.....	8 75
Palmer, W. W., insurance.....	90 88
Pay roll.....	24,504 51
Pay roll, supt. and collector.....	3,533 34
Peavey Mfg. Co., hickory handles	3 25
Penobscot Machinery Co., repairs	108 86
Pennsylvania Salt Mfg. Co., sulphate Alumina.....	9,888 04
Perkins, Chas. E., horse sled	30 00
Rice, John H., Co., coal.....	2,018 11
Rice & Miller Co., measure.....	1 75
Robinson, Wm. C., & Son Co., oil.....	445 89
Royal Typewriter Co., typewriter.....	45 00
Ryan, Frank, blanket, sponge, etc.....	4 65
Sampson, Geo. H., Co., ratchet.....	8 58
Schwartz', M., Sons, white waste, lacings, etc.....	441 99
Sherman Envelope Co., envelopes.....	50 89
Sinclair, M. A., board of horse.....	240 00
Singleton, J. F., Co., insurance	110 35
Smith & Hurlbert, horse shoeing.....	4 90
Smith & West, batteries.....	2 80
Snow & Nealley Co., rope, storm coats....	67 87
Standard Oil Co., of N. Y., gasoline and oil.....	136 50
Stewart, Chas., M., flag.....	19 00
Stickney & Babcock Coal Co., coal.....	1,144 23
Sullivan, Dan T., office supplies.....	85 25
Sullivan, Thomas E., care of fishway.....	50 00
Sweet, Caldwell, Co., tank, denatured alcohol.....	31 30
Thompson Mfg. Co., cogs.....	62 64
Thoms, H. B., wagon repairs, auto repairs	67 65

Water Department—Continued

Thomson Meter Co., water meters and repairs.....	126 15	
Underwood Typewriter Co., repairs on typewriter	6 50	
Union Iron Works, grease, service boxes, etc.....	343 69	
Union Water Meter Co., repairs to water meter	451 15	
United Seal Co., The, hydrant seals, keys, etc.....	115 35	
United States Tire Co., tires.....	96 03	
Utterback-Gleason Co., bites.....	1 75	
Walworth Mfg. Co., bushing.....	24	
Ward, John M., mason repairs.....	23 50	
Wentworth, E. E., Corp., auto repairs	59 86	
West Disinfecting Co., liquid soap....	2 47	
Western Union Tel. Co., clock rent..	12 00	
Westinghouse Electric & Mfg. Co., controller	59 40	
Wood & Bishop Co., oil heater, tin box.....	11 00	
Wood, R. D., & Co., pipe, nuts, etc.	1,947 56	
Woodman, C., Co., lumber.....	72 78	
Worthington Pump & Machinery Corp., installing pump, valve rods	256 01	
Transfer, emergency fund.....	4,606 12	
		<hr/>
	\$68,756 83	
Credit: Coal and salary of T. V. Campbell as plumbing Inspector	596 83	
		<hr/>
		68,160 00
		<hr/>
Total water department		\$68,160 00

CEMETERIES

Cemeteries:

Maintenance—Labor and Teaming:

Maple Grove:

Bryant, W. H.....	\$213 69
Dickey, W. P., & Co., nails, paint.....	3 42
Dunning, R. B., & Co., lawn seed.....	1 24
Morse & Co., lumber, nails, etc.....	17 80
	<hr/>
	\$236 15

Oak Grove:

Eveleth, Ralph C.....	38 00
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Mount Hope Public Grounds:

Hathorn, R. E.....	274 71
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Copying Burial Records:

Hathorn, R. E.....	15 00
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Total maintenance—labor and teaming.....	<hr/>	\$563 86
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Superintendents of Burials:

Mount Hope:

Salary.....	\$300 00
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Mount Pleasant:

Salary.....	200 00
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Total superintendents of burials..	<hr/>	\$500 00
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INTEREST

Interest:

On Temporary Loans:

Interest:

First National Bank, Bangor.....	\$5,773 75	
Transfer—Soldier's Aid Fund.....	221 40	
	<u> </u>	\$5,995 15

Total interest on temporary loans....		\$5,995 15
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On Municipal Bonds:

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

Merchants National Bank, Boston.....	\$ 1,200 00
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\$100,000.00 Interest due 1st May and November:

Merchants National Bank, Boston.....	3,600 00
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\$125,000.00 Interest due 1st Feb. and August:

Merchants National Bank, Boston.....	\$4,940 00	
Transfer to reserve for municipal bonds	60 00	
	<u> </u>	5,000 00

\$250,000.00 Interest due 1st Feb. and August:

Merchants National Bank, Boston.....	10,000 00
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\$195,000.00 Interest due 1st January and July:

Merchants National Bank, Boston.....	\$7,640 00	
Transfer to reserve for municipal bonds	160 00	
	<u> </u>	7,800 00

Total interest on Municipal Bonds.....		\$27,900 00
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Interest—Continued

On Trust Funds used with Arrears:

Bangor Fuel Society:

Bangor Fuel Society.....	\$200 00
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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:

Burr, Frank, et als.....	\$153 50	
Crowley, James.....	16 50	
Transfer to Firemen's Fund.....	188 35	
	<hr/>	358 35

French Medal Fund:

Hutchins, I., M. medals.....	\$165 85	
Transfer to French Medal Fund.....	110 38	
	<hr/>	276 23

Holton Medal Fund:

American Book Co., Whitehead's Stand- ard Bearer.....	\$ 1 82	
Dillingham, E. F., binding oracles.....	3 75	
Harper & Bros., subscription to magazine	4 00	
Donham, A. G., Maine Register.....	2 50	
Library of Congress, cards.....	6 34	
MacMillan Co., The, books for library....	6 12	
Mayhew, Miss Nellie A., Circle of Knowl- edge.....	6 50	
Pearson & Marsh, New Nature Library..	26 50	
Sprague's Journal of Maine History, sub- scription to magazine.....	1 00	
Transfer to Holton Medal Fund.....	41 47	
	<hr/>	100 00

Interest—Continued

Home for Aged Women:	
Merrill, A. J., Treas.....	1,500 00
Hersey Fund:	
Bangor Public Library.....	4,000 00
Stetson Fund:	
Angley, J. F., & Co., wood and coal.....	\$19 39
Bacon & Robinson Co., coal.....	10 54
Bangor Gas Light Co., coke.....	2 80
Bernstein, Chas. J., mileage.....	6 50
Besse-Ashworth Co., clothing.....	22 38
Brockton Cut Price Shoe Co., overshoes..	1 50
Burrill, H. G., groceries.....	5 00
Chapman, G. A., groceries.....	52 00
Connors, John Shoe Co., shoes.....	18 99
Connor Coal & Wood Co., wood.....	23 51
Crossman, W. B., wood.....	42 00
Daley, C., Wood Co., wood.....	4 00
Dunham-Hanson Co., tub and boiler.....	2 75
Eastern Fuel Co., wood.....	30 31
Frank Grocery Co., The, groceries.....	32 02
Freese, A. Langdon, clothing.....	10 56
Hickson, R., & Sons, groceries.....	2 00
Johnson, Mrs. Jennie, distribution.....	200 12
Kane, A. H., coke.....	1 00
Kimball & Nickerson, shoes and rubbers	30 25
Leavitt, Eben, puffs.....	9 90
Maine Woolen Co., clothing.....	6 42
Matheson, W. D., groceries.....	16 64
McGrath, D. J., groceries.....	5 00
New England Tel. & Tel. Co.....	1 05
New York Syndicate, clothing and shoes	20 29
Robinson, S. H., & Son, groceries.....	25 00
Sawyer Boot & Shoe Co., shoes.....	14 88
Sleeper & Singleton, overshoes.....	1 50
Stickney & Babcock Coal Co., coal.....	38 24

Interest—Continued

Supply Dept., requisition books.....	60	
Townsend, Geo. E., groceries.....	27	35
Wood & Ewer Co., clothing.....	7	79
Yates, A. O., Shoe Co., shoes.....	32	50
		<hr/>
	\$774	78
Credit: Paid out of Trust Fund Cash....	174	78
		<hr/>
		\$600 00
Wakefield Fund:		
Friend, Jos. E., Treas.....	\$225	00
Merrill, A. J., Treas.....	225	00
		<hr/>
		450 00
Hiram P. Oliver Fund:		
Angley, J. F., & Co., coal and wood.....	\$15	00
Bacon & Robinson Co., coal.....	11	13
Crossman, W. B., wood.....	24	00
Frank Grocery Co., groceries.....	28	00
Johnson, Mrs. Jennie, distribution	30	00
McGrath, D. J., groceries.....	20	00
New York Syndicate, mittens.....	98	
		<hr/>
	\$129	11
Credit: Paid out of Trust Fund Cash....	29	11
		<hr/>
		100 00
		<hr/>
Total Interest on Trust Funds used with Arrears.....		\$10,704 58

On Water Bonds:

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

Merchants National Bank, Boston.....\$19,670 00

Transfer to Reserve for Water Coupons.. 330 00

\$20,000 00

\$70,000.00 Interest due 1st February and August:

Merchants National Bank, Boston

200 00

Total Interest on Water Bonds \$20,200 00

MUNICIPAL INDEBTEDNESS

Municipal Serial Bond Requirements:

\$50,000.00 Loan Due November 2nd:	
Merchants National Bank, Boston.....	\$5,000 00
 \$100,000.00 Loan Due November 2nd:	
Merchants National Bank, Boston.....	5,000 00
	<hr/>
Total Municipal Serial Bond requirements.....:.....	\$10,000 00

Water Serial Bond Requirements:

\$70,000.00 Loan due August 1st:	
Merchants National Bank, Boston.....	\$10,000 00

Municipal Water Loan (borrowed by City):

Water Loan:	
Donovan, T. G., Treas.....	20,000 00

SINKING FUNDS

Sinking Funds:

Water Loan Annual Appropriation:	
Donovan, T. G., Treas.....	12,000 00
	<hr/>
Total Revenue Expenditures.....	\$685,458 80

NON-REVENUE EXPENDITURES

GENERAL GOVERNMENT

Police Garage:

Salaries and Wages.....		\$135 52
Supplies:		
Dunning, R. B., & Co., cement.....	\$49 70	
Haynes & Chalmers Co., nails and shovels.....	2 94	
Largay, J. E., gravel.....	34 00	
Rice & Miller Co., rake and hoe.....	80	
Woodman, C., Co., lumber.....	16 09	
	103 53	
Installing Heating Plant:		
Kelley, E. F., & Sons.....		107 18
All Other:		
Hines, M. F., trucking.....		50
Total Police Garage.....		\$346 73

PROTECTION OF PERSONS AND PROPERTY

Fire Department:

Automobile:

American LaFrance Fire Engine Co., bell.....	\$ 16 50	
American Express Co., express on bell...	58	
Knowles & Dow Co., auto.....	982 92	
	\$1,000 00	
Total automobile.....		\$1,000 00

HEALTH AND SANITATION

Sanitation:

Sewer Construction:

Salaries and Wages.....	\$1,499 80
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Material:

Babb, C. H., & Co., tile.....	\$ 9 60
Bangor Brick & Constn. Co., brick.....	12 75
Haynes & Chalmers Co., dynamite, exploders.....	24 60
Hughes, Murtagh, sand.....	1 95
Morse & Co., logs.....	16 20
Penobscot Machinery Co., castings, cess- pool tops.....	32 00
Sewer Dept., cement.....	32 60
	<hr/> 129 60

Sewer Pipe:

Dunning, R. B., & Co.....	\$261 04
Sewer Dept.....	485 06
	<hr/> 746 10

Rubber Coats and Boots:

Sawyer Boot & Shoe Co., boots.....	\$13 60
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All Other:

Shannon & Carver, sharpening tools.....	10 25
	<hr/>

Total sewer construction.....	\$2,399 35
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Catch Basin Construction:

Salaries and Wages.....	\$454 49
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Material:

Babb, C. H., & Co., tile.....	\$ 4 32
Bangor Brick & Constn. Co., brick.....	121 40
Dunning, R. B., & Co., trap.....	1 94
Eastern Cement Co., cement.....	26 00
Hughes, Murtagh, sand and gravel	25 15
Penobscot Machinery Co., cess-pool tops	76 50
Sewer Dept., cement, sewer pipe.....	66 76
	<hr/>
	322 07

Total catch basin construction	\$776 56
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HIGHWAYS AND BRIDGES**Highways:****Horses:**

Hughes, Murtagh.....	\$650 00
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Reconstruction General:

Salaries and Wages.....	\$188 99
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Total reconstruction general	\$188 99
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Construction Main and State Streets:

Salaries and Wages.....	\$1,015 11
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Wood Block Paving ,Main Street:

Grady, John, & Son.....	5,765 72
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Wood Block Paving, State Street:

Grady, John, & Son.....	2,491 77
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Highways—Continued

Gravel:		
Hughes, Murtagh.....		514 00
Patrolmen:		
Police Dept.....		72 00
		<hr/>
Total construction Main and State Streets.....		\$9,858 60
Reconstruction Sidewalks and Curbing:		
Salaries and Wages.....		14 50
Sidewalks Reconstructed:		
Casey, Francis T.....	\$450 00	
Doherty, John F.....	275 52	
Murray, Thomas.....	478 95	
	<hr/>	1,204 47
		<hr/>
Total reconstruction sidewalks and curbing.....		\$1,218 97
Construction Sidewalks and Curbing:		
Salaries and Wages.....		\$48 25
Construction of Sidewalks:		
Casey, Francis T.....	\$405 16	
Doherty, John T.....	980 82	
Murray, Thomas.....	483 33	
	<hr/>	1,869 31
		<hr/>
Total Construction Sidewalks and Curbing		\$1,917 56
Construction State Road:		
State Aid Highways:		
Treasurer State of Maine.....		\$7,790 00

EDUCATION

New School House and Lot:

Lot:

Pierce, Anna Hayford.....	\$6,600 00
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Plans for School House:

Crowell, C. Parker.....	250 00
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School House:

Nelson, Otto Co.....	1,600 00
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Advertising:

Bangor Publishing Co.....	\$ 9 38
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Bass, J. P., Publishing Co.....	11 06
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	<hr style="width: 100%;"/> 20 44
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Total new school house and lot.....	<hr style="width: 100%;"/> 8,470 44
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Total Non-revenue Expenditures	<hr style="width: 100%;"/> \$34,617 20
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ESTIMATED REVENUE

TAXES:

Railroad and Telegraph Tax:	
State of Maine.....	\$49,842 17

LICENSES AND PERMITS

Sundry Licenses:	
Theatres.....	\$ 90 00
Employment.....	250 00
Circuses.....	15 00
Peddlers.....	45 00
Billards and pool.....	82 00
Auction.....	8 00
Gasoline.....	34 00
Plumbers.....	45 00
Total Sundry Licenses.....	\$569 00

GRANTS AND GIFTS

Grants from State:

Schools:	
Support of Public Schools.....	\$35,149 23
Aid to Industrial Schools.....	2,889 99
Aid to Free High School.....	500 00
Union Superintendency.....	800 00
School and Mill Tax.....	20,380 51
Total Schools.....	\$59,719 73

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CITY OF BANGOR

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Grants and Gifts—Continued

Armory.....	425 00
Dog Licenses.....	366 07
Libraries.....	841 99

SPECIAL ASSESSMENTS

Street Sprinkling.....	\$8,416 07
Sewers:	
Assessments.....	1,192 75
Sidewalks and Curbing.....	754 24

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

Bangor Railway & Electric Co.—Street Franchise.....	\$2,800 00
Bangor Railway & Electric Co.—Bangor & Brewer Bridge Franchise.....	1,600 00
Bangor Railway & Electric Co., wires crossing bridge.....	\$80 00
Bangor Gas Light Co.—Pipes crossing bridge.....	80 00
New England Tel. & Tel. Co., wires crossing bridge.....	160 00
	<hr/>
	320 00
	<hr/>
Total Public Service—Wires and Franchise.....	\$4,720 00

GENERAL GOVERNMENT

City Hall and Court Street Building:

Rent of hall.....	\$1,676 00
Rent of offices.....	689 88
Rent of part of Court St. building	200 00
Rent of Municipal Court room.....	1,000 00
Rent of piano.....	141 00

Total City Hall and Court Street Building.....	\$3,706 88
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PROTECTION OF PERSONS AND PROPERTY

Police Department—Court Fees:

Supreme Court Fees.....	\$4,750 40
Municipal Court Fees.....	1,149 72

Total Police Department—Court Fees.....	\$5,900 12
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Police Department—Sundry Receipts:

Buttons.....	\$ 8 26
Received for rides in patrol.....	668 47
Cracker barrels.....	2 00
City of Brewer—Police on river.....	9 40
Various.....	3 52

Total Police Department—Sundry Receipts.....	\$691 65
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Fire Department—Sundry Receipts:

Sale of Dressing.....	\$25 00
Sale of coal.....	2 50

Total Fire Department—Sundry Receipts.....	\$27 50
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HEALTH AND SANITATION

Health:

Fumigating.....	13 50
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HIGHWAYS AND BRIDGES

Bridges:

City of Brewer—Bangor & Brewer Bridge	348 94
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CHARITIES

Almshouse—Sale of Products and Sundries:

Milk and cream.....	\$420 19
Hay.....	908 30
Live stock.....	560 50
Eggs.....	5 80
Hogs.....	205 53
Plums.....	2 00
Refund on insurance.....	6 13
Refund on groceries.....	7 00
Wood.....	1 00
Dressing.....	6 00
Rent of Webster Ave. house.....	36 00

Total Almshouse—Sale of products	\$2,158 45
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Reimbursements from Individuals, Cities and Towns:

Individuals.....	\$241 56
Cities and towns.....	600 25
State.....	2,942 80

Total Reimbursements.....	3,784 61
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SOLDIER'S BENEFITS

State pensions.....	\$5,681 00
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EDUCATION

Tuition, Sale of Text Books, etc.:

Tuition.....	\$6,986 90
Text Books and supplies.....	58 06
Sale of heat.....	1,200 00
Night school.....	35 00
Refund—Maine Central R. R. Co.....	5 73
Repairs.....	15 00

Total tuition, sale of text books, etc.	\$8,300 69
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PUBLIC SERVICE ENTERPRISES

Electric Department:

Junk.....	\$78 28
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Water Department:

Water.....	\$96,000 00
Furnished Charitable Institutions.....	2,360 00

Total Water Department.....	\$98,360 00
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CEMETERIES

Sale of Lots:

Mount Hope.....	\$125 00
Maple Grove.....	30 00
Pine Grove.....	10 00

Total sale of lots.....	\$165 00
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INTEREST ON TAXES AND DEPOSITS

On Deposits in banks.....	\$2,310 38	
On taxes.....	701 96	
On tax titles.....	712 55	
	<hr/>	
Total Interest.....		\$3,724 89

OTHER REVENUE

Unclassified:

Telephone.....	\$ 138 66	
Weighing Machine.....	8 30	
Sheep killed by dogs.....	2,290 50	
Hay from cemeteries.....	31 78	
Bob cat.....	4 00	
Ava Bryant—board and clothing	31 53	
	<hr/>	
Total unclassified.....		2,504 77

TOTAL ESTIMATED REVENUE **\$262,293 30**

TAXES**State and County Tax:**

State tax.....	\$151,856 37
County tax.....	48,317 65
	<hr/>
	\$200,174 02

REPORT OF THE CITY TREASURER AND COLLECTOR OF TAXES

TAXES

State and County Tax:

State tax.....	\$151,856 37
County tax.....	48,317 65
	\$200,174 02
Total State and County Tax.....	

CASH RECEIPTS AND PAYMENTS

for the

Fiscal Year Ended February 28, 1918

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March 1. Cash on Hand and in Banks..... \$56,582 65

RECEIPTS

Taxes:

Real and personal for 1917.....	\$658,204 23
Poll " 1917.....	12,537 50
Real and personal " 1916.....	2,859 92
Poll " 1916.....	1,934 45
Real and personal " 1915.....	658 98
Poll " 1915.....	1,079 75
Real and personal " 1914.....	264 03
Poll " 1914.....	592 00
Real and personal " 1913.....	186 59
Poll " 1913.....	344 00
Real and personal " 1912.....	145 45
Poll " 1912.....	258 07
Real and personal " 1911.....	16 68
Poll " 1911.....	110 50

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CITY OF BANGOR

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Real and personal for 1910.....	1 00
Poll " 1910.....	68 00
Real and personal " 1909.....	4 00
Poll " 1909.....	68 55
Poll " 1908.....	51 50
Poll " 1907.....	33 00
Poll " 1906.....	29 00
Real and personal " 1905.....	1 00
Poll " 1905.....	42 00
Real and personal " 1904.....	4 00
Poll " 1904.....	44 00
Real and personal " 1903.....	7 00
Poll " 1903.....	33 00

Total tax collected.....\$679,578 20

Tax Titles Redeemed:

Tax titles, 1916.....	\$1,613 45
Tax titles, 1915.....	920 86
Tax titles, 1914.....	555 82
Tax titles, 1913.....	706 23
Tax titles, 1912.....	438 48
Tax titles, 1911.....	138 78
Tax titles, 1910.....	42 52
Tax titles, 1909.....	44 32

Total tax titles redeemed..... \$4,460 46

From State:

Railroad and Telegraph tax..... \$49,842 17

Licenses and Permits:

Auctioneers.....	\$ 8 00
Billiards and pool.....	82 00
Circuses ..	15 00
Dogs.....	799 00
Employment Agencies.....	250 00
Plumbers.....	45 00

Peddlers.....	45 00	
Street Openings.....	166 51	
Theatres.....	90 00	
Gasoline.....	34 00	
	<hr/>	
Total licenses and permits.....		\$1,534 51

GRANTS AND GIFTS FROM STATE

For Education:

Support of public schools.....	\$35,149 23	
Aid of industrial schools.....	2,889 99	
Aid to free high school.....	500 00	
Union superintendency.....	800 00	
School and mill tax.....	20,380 51	
For armory.....	425 00	
“ dogs.....	366 07	
“ sheep killed by dogs.....	1,075 50	
“ library.....	841 99	
“ bob-cat bounty.....	4 00	
	<hr/>	
Total grants and gifts from State.....		\$62,432 29

SPECIAL ASSESSMENTS

Street Sprinkling:

Street Sprinkling, 1917.....	\$8,008 24	
	<hr/>	
		\$8,008 24
Sewer.....	\$1,329 28	
Sidewalks and curbing.....	1,146 77	
	<hr/>	
Total special assessments.....		\$2,476 05

PRIVILEGES

Public Service:

Wire and Franchise.....	\$4,400 00	
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		\$4,400 00

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CITY OF BANGOR

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CITY HALL

Rent of hall.....	\$1,574 00	
Rent of offices.....	1,669 88	
Rent of Court Street Building	200 00	
	<hr/>	
Total rents.....		\$3,443 88

PROTECTION OF PERSONS AND PROPERTY

Court Fees:

Supreme Judicial Court Fees.....	\$4,750 40	
Municipal Court Fees.....	1,149 72	
	<hr/>	
Total court fees.....		\$5,900 12

Police:

Sale of junk, etc.....	\$ 40	
Sale of buttons.....	52	
Use of patrol.....	677 08	
All others.....	846 15	
	<hr/>	
		\$1,524 15

HEALTH AND SANITATION

Health:

Fumigating.....		\$153 50
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HIGHWAYS AND BRIDGES

Highways:

All others.....		\$1,913 19
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MISCELLANEOUS ACCOUNTS RECEIVABLE

Grading at Public Library, etc.....		\$2,884 30
-------------------------------------	--	------------

REFUNDS

Various refunds.....		\$13 30
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CHARITIES

Almshouse and Farm:

Milk and cream.....	\$420 19
Hay and grain.....	214 09
Livestock.....	766 03
Insurance on buildings burned.....	10,712 15
Sale of hens, fruit, etc.....	7 80

Total almshouse and farm..... \$12,120 26

REIMBURSEMENTS

Reimbursements:

Individuals.....	\$281 50
Cities and towns.....	461 15
State.....	3,192 55

Total reimbursements..... \$3,935 20

SOLDIER'S BENEFITS

State Pensions:

State pensions.....	\$5,585 00
Unclassified soldiers' aid.....	5,852 93

\$11,437 93

EDUCATION

Tuition and supplies.....	\$7,039 95
Heat to Public Library.....	900 00

Total education..... \$7,939 95

UNCLASSIFIED

Telephone, percentage of receipts.....	\$138 66
Weighing machine, percentage of receipts.....	8 30

Total unclassified..... \$146 96

PUBLIC SERVICE ENTERPRISES

Water Department:

Sale of water.....	\$96,000 00
Miscellaneous.....	77 95

\$96,077 95

1918]

CITY OF BANGOR

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ELECTRICAL DEPARTMENT

Sale of junk, etc..... \$204 41

CEMETERIES

Cemeteries:

Sale of lots..... \$165 00

INTEREST

On bank deposits..... \$2,310 38

On taxes..... 703 60

On tax titles..... 469 25

Total interest..... \$3,483 23

Interest from Hiram Fogg Fund.....\$ 50 00

Temporary tax loans..... 250,000 00

Total cash balance and receipts..... \$250,050 00

PRIVILEGES

Bangor and Brewer bridge..... \$ 839 80

Bangor and Brewer bridge, accounts receivable.. 137 01

\$976 81

GIFTS TO CITY MISSIONARY

Gifts to city missionary..... \$51 50

PROTECTION OF PERSONS AND PROPERTY

Fire-sale of supplies..... \$ 2 50

Fire-sale of fertilizer..... 25 00

\$27 50

RECREATION

Parks and gardens:

Sale of fixture..... \$1 00

Recording deeds..... 8 50

Grand total \$1,271,773 21

Cash overrun..... 4 00

\$1,271,777 21

PAYMENTS MADE ON ACCOUNT OF WARRANTS
for the Fiscal Year Ended February 28th 1918

Warrant No.	Amount Paid
85.....	\$ 2,115 08
86.....	11,729 98
87.....	15,020 20
1.....	21,754 92
2.....	3,416 65
3.....	2,610 69
4.....	441 90
5.....	257 97
6.....	100 00
7.....	3,413 54
8.....	13,068 98
9.....	21,035 00
10.....	3,200 96
11.....	2,917 78
12.....	1,796 16
13.....	446 98
14.....	2,008 84
15.....	11,238 51
16.....	22,051 28
17.....	4,480 30
18.....	2,731 42
19.....	12,389 96
20.....	553 14
21.....	2,260 00
22.....	87 50
23.....	4,443 73
24.....	90 00
25.....	11,135 94
26.....	17,626 40
27.....	3,610 94
28.....	3,421 95
29.....	1,436 34
30.....	400 18
31.....	466 72
32.....	920 00
33.....	4,908 21
34.....	79 00

35.....	9,777 69
36.....	22,605 48
37.....	13,018 00
38.....	6,150 63
39.....	1,557 54
40.....	420 78
41.....	13,290 00
42.....	2,180 49
43.....	13,665 57
44.....	19,043 89
45.....	6,185 36
46.....	6,344 60
47.....	401 27
48.....	2,571 21
49.....	23,861 81
50.....	17,113 16
51.....	10,456 53
52.....	11,855 09
53.....	5,013 67
54.....	428 65
55.....	6,034 77
56.....	19,325 41
57.....	25,491 44
58.....	5,102 38
59.....	5,099 68
60.....	562 37
61.....	15,666 19
62.....	12,518 76
63.....	122,020 30
64.....	535 48
65.....	3,542 57
66.....	21,697 57
67.....	294 04
68.....	14,471 22
69.....	6,307 45
70.....	15,522 34
71.....	299 60
72.....	187,653 59
73.....	110 64
74.....	3,759 53
75.....	3,448 71

160 REPORT OF CITY TREAS. AND COLLECTOR OF TAXES [1918

76.....	4,509 44	
77.....	655 65	
78.....	20,293 16	
79.....	10,841 15	
80.....	248 28	
81.....	178,320 59	
82.....	196 90	
83.....	10,611 51	
84.....	5,114 97	
85.....	1,695 98	
86.....	614 45	
87.....	13,861 74	
88.....	82 00	
89.....	3,830 80	
90.....	14,020 61	
91.....	318 52	
92.....	23,325 28	
93.....	3,326 18	
94.....	12,982 82	
95.....	871 67	
96.....	2,229 88	
97.....	703 99	
98.....	7,700 00	
	<hr/>	
Total paid on warrants.....		\$1,181,428 38
Cash balance.....		\$90,348 83

BALANCE, FEBRUARY 28, 1918

Merchants National Bank, Boston.....	\$16,689 86	
Merchants National Bank, Bangor.....	6,218 71	
First National Bank, Bangor.....	39,394 26	
Eastern Trust & Banking Co., Bangor.....	11,052 35	
Merrill Trust Company, Bangor.....	14,426 51	
Deposits made up (to be deposited).....	1,567 14	
Petty Cash.....	1,000 00	
	<hr/>	
		\$90,348 83

The above cash consists of:

Operating cash.....	\$86,748 92	
Trust fund cash.....	3,599 91	
	<hr/>	
		\$90,348 83

Report of the City Electrician

To His Honor, the Mayor, and City Council:

GENTLEMEN:

I respectfully submit the City Electrician's Report for the year ending Feb. 29, 1918.

Appropriation.....	\$32,000 00	
Expenditures.....	29,119 09	
Credits.....	607 50	
Balance.....		\$3,488 41

The cost of Maintenance has been as follows:

Salaries.....	\$16,091 30
Fire Alarm.....	284 89
Police.....	113 29
Team Equipment.....	244 76
Inside Wiring.....	504 53
Line Maintenance.....	1,751 65
Power Station.....	2,719 15
Sub-Station.....	263 93
Coal and Wood.....	1,670 66
Lamps, St. Series.....	1,736 21
Lamps, in Bldgs.....	478 11
Arc Lamps.....	562 98

Miscellaneous.....	95 46	
Auto Maintenance.....	831 46	
Underground Construction.....	1,303 21	
Compensation Insurance.....	467 50	
		————— \$29,119 09

POWER STATION

This department has been very busy the last year repairing and installing new material.

The engine was in bad shape so that we had to rebore cylinder and have new piston head cast.

Mr. Logan, my predecessor, ordered three Falls clutches of the Hinchman type. We have installed two of them. These clutches are a great improvement on the old ones.

By changing all the old Arc lamps to Tungstens, and putting the load on two transformers, I decreased the load thirty-five Kilo Watts, which has saved us from having to steam on the tides. This has not only saved coal, but quite a sum of money.

SUB-STATION

Outside of the ordinary up-keep, this department has run smoothly.

FIRE ALARM

Owing to the severe storms of last fall this department has been busy.

The box at Essex and Garland Sts. was destroyed in one of these storms, and will be replaced as soon as new one arrives.

We had an expert from the Gamewell Company to overhaul repeater and system.

His analysis of the trouble was out of mechanical adjustment and high voltage breaking down the insulation.

I would recommend the purchase of a protector board and out door lightning arrestors which would protect system from further trouble of this kind.

POLICE DEPARTMENT

This department has given very little trouble.

STREET LIGHTS

We have installed during 1917 Tungstens at the following places:

Six Miles Falls.....	3
Jefferson St.....	2
South Park St.....	2
Fern St.....	1
Grove St.....	2
Warren St.....	1
Dean St.....	2
Webster Ave.....	1
Elizabeth Ave.....	1
Sanford St.....	1
Manners Ave.....	3
Vernon St.....	1
Park View Ave.....	1
Total.....	21

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 Companies, my Committee and members of my crew.

Respectfully submitted,

M. D. GALLUPE,
City Electrician.

March 12, 1918.

STOCK AND TOOLS

Sub-station

	LAMPS	150 ft. Circular Loom
		100 ft. R. C. No. 6 wire
		225 ft. Decoration wire
		10 lb. magnet wire
	1 Westinghouse Flame Arc Lamp	3 D. & W. D. P. M. L. Cutouts
	3 Magnetite Lamps	8 Sawyer Mann Cutouts
	Street Series Tungstens	1 Cutout No. 1935
	114 V. Tungsten Lamps	1 Cutout No. 8020
	350-114 V. Lamps, Carbon	1 Cutout No. 62587
	Repair part for G. E. Form 3 Arcs	1 Cutout No. 10971
	Repair part for Magnetite Arcs	1 Cutout No. 10975
	50 Upper Electrodes	6 H. & M. Branch Blocks
	900 Lower Electrodes	$\frac{1}{2}$ bbl. Knobs
	11 Outer Globes	12 Dossert Connectors
	8-6x12 R. I. Balls	11 Condulets F. S. L.
	1 Case Inner Globes	2 Condulets $1\frac{1}{2}$ inches, Type A.
	6,000 Carbons ($9\frac{1}{2}$ x $\frac{1}{2}$)	400 Cleats 2 Wire Porcelain
		1 Electric Lock
	FIXTURES	1 Lot of Old Condulets
		50 Metal Molding Fittings
	5 Wheeler Street Fixtures	8 Cans Nokorode
	2 Series Clusters	30 Rolls Tape
		2 Hartford Time Switches
	MOTORS	70 Rosettes
		50 Sockets
	2- $\frac{1}{2}$ H. P. 3 phase 110 V.	1 Socket Weatherproof
	1 - - H. P. 3 phase 220 V.	22 Switch Plates
		31 Switch Bases Porcelain
	INSIDE WIRING MATERIAL	20 Snap Switches
		4 Flush Switches
	12 Attachment plugs	3 Switches, J. K.
	35 Armored Lamp Cord	
	250 ft. Armored Cable No. 14	

15 Shade Holders
 25 Lb. Solder
 20 Taplets Type U.
 70 W. P. Entrance Bushings
 12 Insulating Joints
 12 Insulating Rings
 2 Ground Clamps
 3 Cast Iron Junction Boxes
 ½ Bbl. Dry Cells

FIRE ALARM SUPPLIES

12 Old Bells
 28 D & W Cutouts
 24 Tappers
 11 Lantern Tops
 25 Matthews Joints
 8 Brass Bolts
 2 Manhole Covers
 60 Lengths Fibre Conduit
 1 Underground F. A. Post
 1 Underground F. A. Junction Box
 4010 ft. Lead Cable 4 Wire No. 14
 7 Auxiliary F. A. Boxes
 1 Register and Take Up Reel
 1 Turtle Gong
 1 Combination Gong and Indicator
 9 Lightning Arresters No. 746
 Union
 12 Outer Door Locks
 10 Inner Door Locks
 4 Cole Key Guards

POLICE SIGNAL

3 Sets Magnets
 1 Induction Coil
 4 Ruby Lights

FUSES

9-3 Amp Primary Fuses
 17-5 Amp Primary Fuses
 26-20 Amp Primary Fuses
 9-30 Amp Primary Fuses
 5-Expulsion Fuses
 20-Cartridge Fuses, 6 Amp
 10-Cartridge Fuses 15 Amp
 20-Cartridge Fuses 30 Amp
 20-Cartridge Fuses 40 Amp
 20-Cartridge Fuses 50 Amp
 10-Cartridge Fuses 65 Amp
 10-Cartridge Fuses 75 Amp
 5-Cartridge Fuses 100 Amp
 10-Cartridge Fuses 175 Amp
 8-Cartridge Fuses 200 Amp
 4-Cartridge Fuses 400 Amp
 125-6 Amp Plug Fuses
 125-10 Amp Plug Fuses
 75-15 Amp Plug Fuses
 75-25 Amp Plug Fuses
 500 Paste Fusettes
 70 Fuse Plug Casings
 25 Glass Tubes
 100 Fire Alarm Fuses

LINE MATERIAL

924 Lbs. No. 6 Weather Proof
 Wire
 50 ft. No. 10 Flexible R. C.
 25 Lb. No. 4 Weather Proof Wire
 200 Wire Connectors No. 4-No.
 6-No.8
 1 Reel Arc Lamp Cable
 3-No. 600 A. Series Cutouts
 10 Series Rect.

5 Series Sockets	2 Scoops
1 Shedd Automatic Cutout	10 Shovels
85 Pole Steps (wood)	3 Cant Dogs
31 Pole Steps (iron)	4 Pick Axes
1 Iron Pole Cross Arm Support	2 Digging Barts
20 Four Pin Arms for Iron Poles	1 Post Hole Digger
33 Caps for Iron Poles	1 Rake
1 Bbl. Wood top Pins	1 Pitchfork
1 Bag Wood Pins	1 Barn Shovel
100-Six Pin Cross Arms	3 Man Hole Gates
60-Two Pin Cross Arms	Duct Rods
1 Bbl. Glass Insulators	1 Take Up Reel
6 Outrigging Braces	1 Wire Scratch Brush
10 Guy Anchors	3 Extension Ladders
200 Iron Braces	1 18 ft. Ladder
40 Guy Wire Clamps	1-14 ft. Step Ladder
19 Thimbles	2-Clamps
75 Eye Bolts	1 Set Stencils
300 Thro. Bolts 5-8 inches	1 Drill Attachment
150 Thro. Bolts 7-8 inches	1 Boiler Ratchet
225 Space Bolts	1 Hand Saw
1 Coil No. 6 Iron Wire	2 Draw Shaves
75 Galv. Iron Brackets	3 Monkey Wrenches
29 Pierce Brackets	2 Stilson Wrenches
18 Dutton Tree Insulators	1 Steel Square
4 Lunfin Cutouts (old)	1 Level
2 Transformers (burnt out Junk)	1 Nail Puller
1 Transformer 25 K. V. A.	1 Axe
13 P. & S. Transformer Cutouts	1 Pinch Bar
23 G. E. Transformer Cutouts	1 Metal Molding Punch
40 Arc Lamp Hangers	3 Trowels
9 Iron Sights-sticks	6 Brick Drills
1 Cable Support	1 Anvil and Forge
6 Rock Drills	1 Grindstone
1 Dead Man	2 Die Stocks
3 Pikes	1 Lathe
3 Tamping Bars	1 Die Set
1 Tamping Moll	2 Vises

1 Pipe Vise
 1 Bit Brace
 6 Bits
 1 Mitre Box
 1 Breast Drill
 1 Power Drill
 2 Magneto
 1 Pipe Cutter
 1 Torch
 1 Claw Hammer
 2 Screw Drivers
 3 Hatchets
 3 Wrenches
 1 Small Steel Bar
 2 Sets Come Alongs
 1 Set Blocks
 2 Sets Blocks and Rope
 1 Snatch Block
 1 Coil Manilla Rope 17 th.

STATION EQUIPMENT

2 G. E. Potential Transformers
 2 Westinghouse Current Transformers
 1 Horn Cap Lightning Arrestor
 1 Westinghouse Oil Switch 2 P. D. T.
 1 G. E. Oil Switch 3 P. D. T.
 1 G. E. Oil Switch 3 P. S. T.
 2 A. C. Lightning Arrestors Type G. E.-F2
 8 A. C. Lightning Arrestors Type G. E.-S
 8 Porcelain Barriers
 80 Carbons
 1 H. C. Type Alternator and Rheostat

1 Field Rheostat
 1 Westinghouse Graphic Recording Watt Hour Meter
 1 Westinghouse Polyphase Watt Meter Portable
 2 Westinghouse Current Transformers
 2 Thompson A. C. Ammeters 0-15 Amp
 1 Thompson A. C. Ammeters 0-200 Amp
 1 Thompson Wattmeter
 1 Weston D. C. Voltmeter
 1 Western D. C. & A. C. Voltmeter
 2 Series Rectifier Tubes
 2 Pr. Rubber Gloves
 1 Pr. Pliers, insulated handles

TEAM EQUIPMENT

1 Horse
 1 Harness
 1 Halter
 1 Blanket
 1 Express Wagon
 1 Two Wheel Pole Wagon
 2 Sleds
 3 Carriage Wrenches
 2 Curry Combs
 2 Brushes
 1 Carriage Robe

AUTOMOBILE

1 Ford Automobile
 4 Old Tires
 1 New Tire
 2 Inner Tubes

2 Sets Weed Tire Chains
1 Search Light

MISCELLANEOUS

10½ Bags Portland Cement
3 Bags Pulp Plaster
10 Bars Bon Ami
1 Faucet
1 Branding Iron
5 Gal. Kerosene
19 Lanterns
2 Mops
7 Brushes
1 Feather Duster
3 Stable Brooms
2 Push Brooms
4 Brooms
2 Pails
1 Vacuum Cleaner
50 Ft. Garden Hose (old)
50 Ft. Garden Hose (new)

OFFICE

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

POWER STATION

1 Set Pipe Dies, cuts ½ inch to 1 inch

1 Set Pipe Dies, cuts 1 inch to 2 inches

Pipe Taps, ⅛ inch, ¼ inch, ½ inch

1-4 inch Pipe Vise

1 No. 3 Barnes Pipe Cutter

1-36 inch Stilson Wrench

1-24 inch Stilson Wrench

2-14 inch Stilson Wrench

2-24 inch Chain Tongs

BLACKSMITH TOOLS

1 Forge with Blower

1-7 Lb. Hammer

1-14 Lb. Hammer

1-18 Lb. Hammer

CARPENTER TOOLS

1-24 inch Steel Square

1 Pr. 8 inch Dividers

1-24 inch Hand Saw

1 Key Hole Saw

2 Bit Braces

1 Set Wood Bits

1 Expan. Bit

1-⅞ inch Ship Auger

1-1½ inch Wood Chisel

1-1½ inch Wood Gouge

1 Hammer

BOILER TOOLS

2 Coal Shovels

1 Steam Tube Cleaner

1 Weindand Tube Cleaner

30 Ft. Metal Steam Hose

40 Ft. 6 Ply Steam Hose

50 Ft. Garden Hose
 1 Boiler Rake
 1 Boiler Hoe

4 Spanner Wrenches
 1 Emery Wheel Tool Grinder

MACHINE TOOLS

1 Set Bolt Dies, Cuts $\frac{1}{2}$ Inch, $\frac{5}{8}$ Inch,
 $\frac{3}{4}$ Inch, $\frac{7}{8}$ Inch, 1 Inch
 Machine Taps, 2- $\frac{3}{8}$ Inch, 2- $\frac{3}{4}$ Inch,
 3- $\frac{7}{8}$ Inch, 2-1 Inch
 Twist Drills, 10-32, 12-32, 13-32,
 13-32, 14-32, 16-32, $\frac{1}{2}$ Inch,
 $\frac{5}{8}$ Inch, 13-16 Inch, 29-32 Inch,
 1 Inch
 1 Pr. 6 Inch Outside Calipers
 1 Pr. 6 Inch Inside Calipers
 1-12 Inch Hack Saw Frame
 1-12 Inch Hack Saw Blades
 1 Pr. 15 Inch Tin Snips
 2 Babbitt Ladels
 1 Blot Torch
 1-12 Inch Ratchet Brace
 1-12 Inch Ratchet Brace
 1 Breast Drill
 4- $\frac{5}{8}$ Inch Cold Chisels
 1-1 $\frac{1}{2}$ Lb. Hammer
 1 Bench Vise
 1-14 Inch Wescott Wrench
 1-10 Inch Wescott Wrench
 1-8 Inch Wescott Wrench
 1-24 Inch Monkey Wrench
 1-12 Inch Monkey Wrench
 1-10 Inch Monkey Wrench
 1-1 Inch Fork Wrench
 2- $\frac{7}{8}$ Inch Monkey Wrench
 1- $\frac{3}{4}$ Inch Monkey Wrench
 10 Governor Wrenches
 3 Socket Wrenches

WRECKING TOOLS

1-6 Inch Screw Jack
 2-24 Inch Hydraulic Jacks
 2-1 Ton Chain Hoists
 1-2 Ton Chain Hoists
 1-4 Ton Chain Hoists
 1- $\frac{1}{2}$ Ton Chain Hoists
 2-5 Ft. Steel Bars
 2-3 Ft. Steel Bars
 1 Set of Block and Tackle
 50 Ft. 1 Inch Rope
 2- $\frac{3}{4}$ Inch Hand Lines
 3- $\frac{1}{2}$ Inch Steel Cable Slings
 1 Snow Shovel
 1 Lawn Mower
 3 Lanterns
 6 Racksrakes
 1-15 Ft. Wrecking Boat
 1 Bbl. Cylinder Oil
 2 Bbl. Engine Oil, Heavy
 1 Bbl. Engine Oil, Light
 25 Gals. Governors' Oil
 25 Gals. Kerosene Oil
 $\frac{1}{2}$ Bbl. Gear Grease
 $\frac{1}{4}$ Bbl. Cup Grease
 2 Bales Waste
 6 Gals. Brass Polish
 15 Lbs. Powdered Graphite
 12 Clutch Arms
 Meter Paper
 40 Lbs. Gen. Babbitt
 20 Lbs. No. 4 Babbitt
 6 Oil Screens for Filter
 $\frac{1}{2}$ doz. 10 Inch Bast. Flat Files

6 Sticks Commutator Dressing	1-12 Screw Driver
1 Lb. $\frac{1}{4}$ Inch Spiral Packing	66-2 $\frac{1}{2}$ x $\frac{3}{4}$ Cap Screws
1 Lb. $\frac{3}{8}$ Inch Spiral Packing	12-2x $\frac{1}{2}$ Cap Screws
1 Lb. $\frac{1}{2}$ Inch Spiral Packing	12-2 $\frac{1}{2}$ x $\frac{5}{8}$ Inch Cap Screws
12 Carbon Brushes for Exciter	8-1 $\frac{1}{2}$ x $\frac{1}{2}$ Inch Screws
Leather Cups for Governor	12- $\frac{3}{8}$ x2 Screws
Bon Ami and Soap	10- $\frac{3}{8}$ x1 Screws
1 Female Step for Water Wheel	12-4 $\frac{1}{2}$ x $\frac{1}{4}$ Machine Bolts
1 Male Step for Water Wheel	12-5x $\frac{7}{8}$ Machine Bolts
1 Pr. 8 Inch Pliers	4-8x12 Machine Bolts

REPORT OF Superintendent of Sewers

Bangor, Maine, March 18th, 1918.

To His Honor, the Mayor and the City Council:

Gentlemen:—The Superintendent of Sewers herewith submits his report for the year ending February 28th 1918.

Annual appropriation.....	\$1,2500	00
Additional appropriation.....	634	05

Total.....	\$13,134	05
Expenses.....	\$13,134	05

EXPENDITURES

General Administration

Salary of Superintendent.....	\$1,100	00
Salary of Board.....	147	92
Office Supplies.....	3	15

	\$1,251	07

SEWER CONSTRUCTION

Fountain Street.....	\$	559 74
Woodbury and Bryant Streets.....	1,371	36
Larkin Street.....	260	21
Savage Street.....	142	52
Saturday, half holiday.....	46	02

	\$2,379	85

SEWER MAINTENANCE

Repairs.....	\$1,181 72	
Cleaning tops.....	93 60	
Winter expense.....	770 40	
Gasoline pump.....	182 50	
Repair of carts.....	77 87	
Stove.....	28 63	
Sewer cleaning rods.....	80 00	
Liability Insurance.....	327 15	
Miscellaneous.....	304 23	
Saturday, half holiday.....	48 90	
		\$3,095 00

CATCH BASIN CONSTRUCTION

1 Forest Ave.....	\$ 78 24	
2 Elizabeth Ave.....	127 12	
2 Maple Street.....	140 33	
1 Seventh Street.....	115 55	
1 Cumberland Street.....	69 51	
1 Second Street Ave.....	75 85	
1 Main Street.....	52 15	
1 Norfolk Street.....	95 95	
Hancock Street Watering Trough.....	11 26	
Saturday, half holiday.....	30 10	
		\$796 06

CATCH BASIN MAINTENANCE

Repairing.....	\$1,167 35	
Cleaning.....	3,752 18	
Cleaning tops.....	78 90	
Grates and tops.....	62 20	
Tools and stock.....	296 73	
Saturday, half holiday.....	254 71	
		\$5,612 07

AMOUNT OF NEW SEWER

Woodbury and Bryant Streets.....	775 feet of 12 Inch Pipe
Woodbury and Bryant Streets.....	630 " " 10 " "
Woodbury and Bryant Streets.....	70 " " 8 " "
Larkin Street.....	330 " " 10 " "
Savage Street.....	140 " " 10 " "
Fountain Street.....	200 " " 12 " "
Connections.....	251 " " 8 " "

Total.....	2396 feet

The sewer built on Larkin Street is an auxiliary and was constructed to relieve the old sewer which was not large enough to take the water during heavy rains and backed up into the cellars of the neighbors causing damages.

The sewer on Savage Street is an extension to provide an overflow for the West Broadway sewer which also backed up into cellars.

Ten Catch Basins were constructed on old sewers at a cost of \$796.06 making 1232 Catch Basins in the city.

Two Manholes and 2396 feet of sewer built during the year makes the amount of sewers in the city about forty-seven and one-third miles.

The Catch Basins have been cleaned as often as necessary, the work being done by the department at a cost of \$3752.18.

Respectfully submitted,

WM. E. GIVREN,
Supt. of Sewers.

Report of the Fire Chief

To the Honorable, the Mayor and the City Council:

In compliance with the regulations of the City Ordinance I herewith submit a report of the Fire Department for the fiscal year ended February 28, 1918.

The expenditures for the department for the year have been as follows:

Salaries and wages.....	\$43,067 14	
Horses and care of same.....	4,812 31	
Fuel and light.....	2,670 30	
Auto maintenance.....	857 46	
Repair, renewals and repairs.....	1,349 79	
Other expenses.....	1,558 81	
		<hr/>
		\$54,315 81
New auto for Chief.....		1,000 00
		<hr/>
Total.....		\$55,315 81

APPARATUS

Central Station

1 Chemical and hose truck.....	Motor
1 Chief Automobile.....	
1 Steam fire engine.....	Drawn by 3 horses
1 Aerial truck.....	Drawn by 3 horses
1 Chief wagon.....	Drawn by 1 horse

Station 2, Main St.

1 Hose wagon.....Drawn by 2 horses

Station 3, Hammond St.

1 Hose wagon.....Drawn by 2 horses

Station 4, Highland St.

1 Combination wagon, ladder, hose and chemical.....Drawn by 2 horses

1 Steam fire engine..... Drawn by 2 horses

Station 5, State St.

1 Hose and chemical wagon.....Drawn by 2 horses

1 City service ladder truck.....Drawn by 2 horses

Station 6, Center St.

1 Hose wagon.....Drawn by 2 horses

1 Steam fire engine.....Drawn by 2 horses

Winter Apparatus, Etc.

6 Hose Sleds

1 Ladder Sled

2 Exercising Sleds

2 Chief Pungs

2 Chief Wagons

3 Exercising Wagons

1 Hose Wagon in poor condition

PERMANENT FORCE

The permanent force of the department consists of: 1 chief,
3 district chiefs, 27 drivers, engineers and ladder-men.

CALL FORCE

The call force consists of 7 captains, 8 lieutenants, 54 hose and ladder-men.

HORSES

There are at present in the department 23 horses.

HOSE

There is on hand 11,000 feet of hose.
30,150 feet of hose was laid at fires during the year.

ALARMS

The department has responded to 212 calls during the year, of which 71 were bell alarms and 141 still calls. Of these calls 149 were in wooden buildings, 42 in brick and stone, 6 grass, 4 dump, 1 gasoline, 2 rubbish, 2 railroad cars, 3 coal and 2 old ruins.

VALUATION AND LOSS

The value of the property involved in fires during the year was, \$828,604,81. Insurance on same \$610,850,67. Loss during the year, \$181,964.38.

INSPECTIONS

The permanent men of the department have during the year made several inspections of the business section of the city for the purpose of keeping the cellars and yards clear of rubbish.

RECOMMENDATIONS

The purchase of 1000 feet of hose, and the purchase of 3 or 4 suitable smoke helmets such as are used in fire departments.

CONCLUSION

In closing I wish to thank His Honor the Mayor, and the City Government, and Committee on Fire, Police Department, the press, and all who have in any way contributed to the success of the department.

To the Officers and Members of the department I extend thanks for their hearty co-operation and efficient work during the year.

Respectfully yours,

P. J. KELLEY,
Chief Engineer.

Report of the Chief of Police

Bangor, Maine, March 1, 1918.

To His Honor the Mayor, and to the City Government:

GENTLEMEN::

I herewith submit the annual report of the Police Department for the municipal year ending February 28, 1918,

	Res.	Non-res.
Assault and battery.....	30	6
Assault.....		2
Assault on an officer.....	1	
Assault and battery on an officer in the discharge of his official duty	1	
Assault with intent to rape.....	1	
Assault with a dangerous weapon.....	1	
Assault with intent to kill.....		1
Assault with intent to kill and murder.....		1
Abusing a female child between the ages of fourteen and sixteen years.....		1
Adultery.....	1	4
Aggravated assault.....	1	
Attempting to commit a criminal offence.....	1	
Attempting to break and enter.....	1	1
Attempting to commit suicide.....	1	
Affray.....	3	7
Arson.....	1	

Breaking and entering.....	1	
Breaking, entering and larceny.....	1	1
Being a vagabond and idle person.....		4
Being an idle and disorderly person.....	10	10
Being a person wanton and lascivious in speech and behavior.....	2	1
Cheating by false pretences.....	2	
Common nuisance.....	13	1
Concealing mortgaged property.....	1	
Cruelly treating a child by neglect.....	1	
Drunkenness.....	465	1336
Desertion of wife and children.....	7	
Danger of falling into habits of vice and immorality.....	1	
Disorderly conduct.....	1	
Displaying a firearm in a threatening manner.....		1
Evading fare for transportation in a public auto.....	1	
Evading car fare.....		3
Extortion.....		1
For other departments.....	3	17
Forgery.....	2	3
Fornication.....	1	1
Gambling.....		8
Issuing a fraudulent check.....		1
Indecent exposure.....		2
Keeping a disorderly house.....	1	
Larceny from the person.....	4	3
Larceny.....	38	19
Loitering.....		1
Loitering about a railroad station.....		1
Leading an idle or vicious life.....	1	1
Lascivious and wanton person.....	1	
Liquor nuisance.....	2	
Malicious mischief.....	8	3
Malicious vexing.....	1	
Making loud noises and outcries.....	1	

Neglecting and abuse of minor children.....	2	
Not having head lights of auto frosted.....	1	
Not having motor vehicle registered.....	1	
Non-support.....	1	
Operating an auto while under the influence of liquor.....	6	3
Operating an auto at a rate of speed greater than 15 miles an hour.....	2	2
Operating an auto recklessly.....	2	1
Operating an auto without a license.....	1	
Operating an auto without number plates.....	3	
Operating an auto without proper registration plates.....	1	
Operating a motor vehicle recklessly.....	1	
Operating a motor vehicle and going away without mak- ing himself known after causing injury.....		1
Obstructing an officer.....	1	
Profanely cursing and swearing.....	1	1
Pocket peddling.....	1	
Robbery.....		1
Receiving stolen property.....	2	
Ringing a false alarm of fire.....	1	
Receiving money from persons engaged in prostitution.....	3	
Runaway boy.....		1
Search for intoxicating liquors.....	10	
Search and seizure.....	10	1
Search for stolen property.....	2	
Search for implements of gambling.....	1	
Selling goods without a license.....		3
Selling mortgaged property without notice.....	1	
Safe keeping.....	4	11
Single sale.....	23	3
Threatening to do bodily harm.....	2	
Threatening to do harm.....		1
Threatening display of firearm.....	1	
Taking an auto without authority.....	1	
Transportation of female person for the purpose of pros- titution.....	1	
Trucking without a license.....		1

Unlawful depositing intoxicating liquors.....	11	1
Violating City Ordinances.....	7	3
Violating of motor vehicle regulation.....	3	2
Violating of labor laws relation to employment of minors..	1	
Vagabond and idle person.....	1	1
Vagrancy.....		1
Witness.....		3
	721	1482
Total.....		2203
Shelters.....		397

POLICE AUTOMOBILE AND AMBULANCE SERVICE

Conveying people to different City hospitals.....	33
Conveying people to the house of correction.....	34
Number of calls responded to by police auto and ambulance from March 1, 1917 to March 1, 1918.....	2362
Insane cases.....	9
Number of lost children found and returned to their parents.....	30
Number of boys placed on probation previously arrested.....	18
Number of boys committed to the State School for Boys.....	5
Number of women committed to the State Reformatory for Women	2
Number of girls committed to the State School for Girls.....	1
Doors found open on West side.....	166
Doors found open on East side.....	97
Safes found open on West side.....	3
Safes found open on East side.....	5

Respectfully submitted,

LINDLEY W. GILMAN,
Chief of Police.



Report of the Public Library



BOARD OF MANAGERS

1918-1919

John F. Woodman, (Mayor) <i>President</i>	}	Trustees of Hersey Fund
Arthur Chapin		
Frederic W. Adams		
William F. Curran		
Thomas G. Donovan (City Treasurer)	}	Representing Bangor Mechanic Association
Daniel A. Robinson, <i>Vice President</i>		
Charles F. Bragg		
Bernhard Pol		
Thomas U. Coe		

TREASURER

Frederic W. Adams

SECRETARY

Charles A. Flagg

COMMITTEES

Auditing, Mr. Pol

Finance, Mr. Bragg

Library, Dr. Coe, Dr. Robinson, Mr. Chapin

Purchasing, Dr. Coe

OFFICERS OF THE LIBRARY

LIBRARIAN

Charles A. Flagg, B. L. S.

Assistants

Miss Carrie C. Mayberry

Miss Elisabeth H. Chapman

Miss Annie E. Wayland

Miss Mary E. Casey

Miss Eva E. Rand

Miss Helen E. Manuel

Mrs. Pauline Murphy Rand

Mrs. Nellie Bullock Banton

Miss Carrie F. Rich

Miss Christine L. Burnham

Janitor

Timothy E. Hollihan

Assistant Janitor

Michael T. Connelly

REPORT OF THE TRUSTEES OF THE INCOME OF THE HERSEY FUND

BANGOR, February 12, 1918.

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 (\$4000) 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.

JOHN F. WOODMAN
WM. F. CURRAN
FREDERIC W. ADAMS
THOMAS G. DONOVAN

Trustees of the Income of the Hersey Fund

THE LIBRARY BOARDS

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, and was set aside in 1914 with that designation.

Reports of the Treasurer

FREDERIC W. ADAMS, Treasurer,

In account with the Trustees of Bangor Public Library

Dr.

1917			
Jan. 15	Balance on hand.....	\$1,982 69	
Feb. 15	Exchange Chicago Tel. Co. stock for Am. Tel. & Tel. Co. stock.....	1,666 00	
	Adjustment of interest.....	4 17	
Apr. 2	Bangor Savings Bank dividend	8 92	
16	American Tel. & Tel. dividend	1,666 00	
May 2	Jacksonville Elec. Co. coupons	50 00	
	Racine Water Co. coupon	25 00	
July 17	American Tel. & Tel. dividend	1,666 00	
Aug. 7	Rebate bond E. F. Rich.....	12 50	
Aug. 16	Iowa Loan & Trust Co., coupon.....	22 50	
Oct. 1	Bangor Savings Bank dividend	35 32	
Oct. 15	American Tel. & Tel. Co. dividend	1,666 00	
Nov. 6	Borrowed of Merchants National Bank.....	350 00	
Nov. 28	Bequest, estate of Geo. S. Lynde.....	587 65	
Dec. 14	Iowa Loan & Trust Co. coupons	22 50	
	Jacksonville Elec. Co. coupons	50 00	
	Racine Water Co. coupon	25 00	
			<hr/> \$9,840 25

Cr.

Jan. 26	Transferred to Book Fund.....	\$1,700 00	
Feb. 2	Insurance on Transfer of Stock.....	5 00	
Mar. 7	E. F. Rich, 3 months' salary.....	62 50	
Apr. 18	Transfer to Book Fund.....	1,500 00	
May 2	Bond of Treasurer, (Blake, Barrows & Brown).....	20 00	
Jun. 7	J. M. Bright, insurance.....	46 08	
July 6	E. F. Rich, 3 months' salary.....	62 50	
July 31	Transfer to Book Fund.....	1,500 00	
Aug. 7	Treas. bond, Blake Barrows & Brown.....	12 50	
Oct. 1	City of Bangor for grading.....	2,200 00	
Oct. 15	City of Bangor for balance on grading.....	300 00	
Oct. 18	Transfer to Book Fund.....	1,200 00	
Nov. 6	E. F. Kelley & Sons.....	491 00	
Nov. 28	Paid Merchants National Bank for note and interest.....	351 28	
Dec. 17	F. W. Adams, Treasurer, salary.....	50 00	
Dec. 17	C. A. Flagg, Secretary, salary.....	50 00	
		<hr/>	\$9,550 86
	Balance.....		289 39
			<hr/>
			\$9,840 25

Respectfully submitted,

FREDERIC W. ADAMS,
Treasurer

Bangor, Maine, January 15, 1918

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

Iowa Loan & Trust Co., 4½% bond.....	\$1,000 00
Jacksonville Electric Co., 5% bonds, 1927.....	2,000 00
Racine Water Co., 5% bond, 1931.....	1,000 00
5 Shares U. S. Worsted Co., Second Preferred Stock.....	500 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 received for 83 shares of Chicago Tel. & Tel. Co. stock (by purchase).....	8,300 00
	<hr/>
	\$87,800 00

I hereby certify that I have examined the foregoing account of Frederic W. Adams, Treasurer of Bangor Public Library, and find it correctly cast and properly vouched, with \$289.39 on deposit and securities \$87,800 in his custody as stated.

BERNHARD POL,
Auditor

Bangor, Maine, January 15, 1918

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

1917		
Jan. 15	Balance on hand.....	\$661 75
Apr. 1	Dividend Bangor Savings Bank.....	11 57
Oct. 1	Dividend Bangor Savings Bank.....	11 78
		<hr/>
		\$685 10

Respectfully submitted,

FREDERIC W. ADAMS,
Treasurer

I have examined the account of Frederic W. Adams, Treasurer of the Art Fund of Bangor Public Library and find same as stated and the balance \$685.10 on deposit with the Bangor Savings Bank.

BERNHARD POL,
Auditor

FREDERIC W. ADAMS, Treasurer of Patten Fund

In account with the Trustees of Bangor Public Library

Dr.

1917			
Jan. 15	Balance.....	\$55 51	
Apr. 2	Dividend Bangor Savings Bank.....	65	
Apr. 4	Bangor & Aroostook R. R. Co. coupon.....	25 00	
Aug. 16	Milwaukee Gas Light Co. coupon.....	20 00	
	Iowa Loan & Trust Co. coupon.....	50 00	
Oct. 1	Dividend Bangor Savings Bank.....	94	
Dec. 14	Bangor & Aroostook R. R. Co. coupon.....	25 00	
	Iowa Loan & Trust Co. coupon.....	50 00	
	Milwaukee Gas Light Co. coupon.....	20 00	
			\$247 10

Cr.

Jan. 26	Charles Scribner's Sons	\$33 00	
Sept. 13	John Q. Adams Co.....	36 00	
1918			
Jan. 5	E. F. Dillingham.....	14 40	
	The Macmillan Co.....	6 12	
	Breitkopf & Hartel.....	1 99	
1918			
Jan. 15	Balance.....	155 59	
			\$247 10

Respectfully submitted,

FREDERIC W. ADAMS,
Treasurer

The following shows the investment of the Patten Fund for the Bangor Public Library, in 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% bonds 1927, No. 2739.....	1,000 00
	\$4,000 00

I hereby certify that I have examined the foregoing account of Frederic W. Adams, Treasurer of the Trustees on account of Patten Fund and find it correctly stated and vouched, and balance \$155.59 on deposit in Bangor Savings Bank, and the securities \$4000. in his custody as stated.

BERNHARD POL,
Auditor

Bangor, Maine, January 15, 1918.

FREDERIC W. ADAMS, Treasurer

In account with Managers of Bangor Public Library

GENERAL ACCOUNT

Dr.

1917			
Jan. 15	To cash on deposit.....	\$4,558 06	
1918			
Jan. 15	Receipts for year ending this date:		
	City of Bangor on account appropriations	7,000 00	
	City of Bangor on account interest, Hersey Fund	4,000 00	
	Income from Bangor Mechanic Association	720 00	
	Fines collected by Librarian, cards and sundries.....	527 01	
	Interest on Bank deposits	15 83	
		<u> </u>	\$16,820 90

Cr.

1918			
Jan. 15	By disbursements for the year ending this date:		
	Salaries, Librarian, Assistants, Substitutes, Janitor, and extra help.....	\$9,045 30	
	Supplies.....	1,722 40	
	Heating, 1916-1917.....	2,400 00	
	Sundries.....	1,271 68	
		<u> </u>	\$14,439 38
	Balance.....		2,381 52
			<u> </u>
			\$16,820 90

Respectfully submitted,

FREDERIC W. ADAMS,
Treasurer

I have examined the account of Frederic W. Adams, Treasurer of Board of Managers of Bangor Public Library (General account) and find same correctly cast and properly vouched and balance 2,381.52 as stated and on deposit with the Merchants National Bank.

BERNHARD POL,
Auditor

FREDERIC W. ADAMS, Treasurer

In account with the Managers of Bangor Public Library

BOOK FUND

Dr.

1917			
Jan. 15	Balance.....	\$338 86	
1918			
Jan. 15	Receipts for year ending this date:		
	Appropriations by State of Maine.....	841 99	
	Transfer from General account for money borrowed in 1916.....	1,000 00	
	Appropriation by Trustees for Book Fund	5,900 00	
	Interest on deposit.....	7 60	
			\$8,088 45

Cr.

Expenditures for Books:

Books, pamphlets, etc.....	\$4,549 06	
Periodical subscriptions.....	1,052 28	
Binding and repairs.....	2,211 42	
Transportation, express, freight, postage, etc.....	98 88	
		<hr/>
		\$7,911 64
Balance.....		176 81
		<hr/>
		\$8,088 45

Respectfully submitted,

FREDERIC W. ADAMS,
Treasurer

I have examined the foregoing report of Frederic W. Adams, Treasurer of the Book Fund of Bangor Public Library and find same correctly cast and properly vouched and balance \$176.81 as stated and on deposit with the Merchants National Bank of Bangor.

BERNHARD POL,
Auditor

Report of the Librarian

To the Board of Managers of the Bangor Public Library:

I have the honor to submit the 35th annual report of the Bangor Public Library, covering the year 1917.

SIZE AND GROWTH

The number of volumes in the Library on January 1, 1917, was 50,498. During the year there has been a net gain of 7,071.

This is probably a fair average number of additions per year under present conditions.

The total additions, 7,426, included 2,873 volumes purchased, 4,229 received by gift, 323 by binding periodicals and 1 other.

355 volumes have been removed; including 236 worn out, 53 duplicates, 53 charged to borrowers and not returned and 13 others.

Number of volumes in the Library January 1, 1918, 57,569.

It may be noted here that at the time of removal to the new building in 1913 the Library had about 22,000 volumes, and at the present rate of growth, within less than two years, it will contain as many volumes as were lost in the fire.

Statistics may be found in Appendix A, B, C and G.

OPENING, REGISTRATION AND CIRCULATION

The Library has been open for reading and the circulation of books every day throughout the year from 9 a. m. to 9 p. m. except Sundays and the following legal holidays observed by the banks.

New Year's day.....	Jan. 1
Washington's birthday.....	Feb. 22
Patriot's day.....	April 19
Memorial day.....	May 30
Independence day.....	July 4
Labor day.....	Sept. 3
Thanksgiving.....	Nov. 29
Christmas.....	Dec. 25

Also, this year, the Library, at the special request of the City government closed at noon on,

Bangor Patriotic day.....	April 4
Registration day.....	June 5

The card holders numbered 3,789 in the Main library and 1,468 in the Juvenile department; a total of 5,287, which is an increase of 124 over the preceding year; a falling off of 30 in the main library being more than offset by an increase of 154 children.

As this is one of the few libraries requiring registration each year, it follows that the cards are mostly in actual use, and we carry very few inactive ones.

This year for the first time we classify the borrowers in our statistics (Table E).

The total circulation for the year 1917 was 81,030, showing an actual decrease 3,352 from the previous year. This falling off in circulation is noticed by librarians generally and seems to be explainable by the present war conditions. Many women who are accustomed to take out books to read during their leisure hours, are now devoting these hours to Red Cross or other work. As this is measured not by the decrease from last year but by the comparison of the present circulation with what we should expect under normal conditions, it will be seen to be responsible for a loss of six to ten thousand in circulation.

Another special factor in the decrease is the poverty of the Library in the first half of the year when practically no new books were purchased. A library for the general reader must be, like a business establishment, up to date, if it wishes to be popular.

It is of interest to note as verifying our theory of the decrease, that the Juvenile Dept. where war conditions do not enter in, shows an actual increase in circulation of 1,200 volumes over 1916.

See Appendix D, E, F, G.

TRAVELING LIBRARIES

Until the Library can afford to provide Branches or Delivery stations for remote districts, the traveling library is our only means of carrying the books near the reader. The use of these libraries depends on the interest manifested in the rural school districts and the willingness of the teachers to assume the responsibility. The past year our libraries have been for the most part inactive; save for the special collections sent to the Western Union Telegraph Co. for the use of its messenger boys. In the fall libraries were sent to the Avenue and the North Bangor schools, and are still in use.

DELINQUENT BORROWERS

This year's record shows a large decrease in number of 1st notices sent, and an increase in 2d notices. The fines collected have increased nearly forty dollars. Books lost and paid for are about as last year; books lost and not paid for have increased from 24 to 43. The law asked for from the last Legislature making the retention of books from public libraries a misdemeanor, was not passed, and libraries must still be victimized by those unstable elements in the population who disappear almost overnight, as well as those individuals who believe it profitable to borrow and retain or lose a book worth perhaps 75 cents, and then through neglect to pay, forfeit the use of the Library in future. Fortunately there has been only one such loss of a volume valued above a dollar within the last five years.

See Appendix I.

GIFTS

Again we record a large number of gifts, 4,279.

Notable benefactors in the matter are:

Estate of James C. Stodder

Estate of Albert W. Paine

Miss Charlotte Roberts

Estate of Selma W. Paine

Amos E. Hardy

Estate of Henry L. Griffin

A large number of volumes from the Estate of Abel Hunt is in the building awaiting attention.

The Trustees have received a small sum from the estate of George S. Lynde, the result of a compromise among the legatees, as there were not sufficient funds to meet all claims.

The Library is made a beneficiary in two wills probated during the year: that of Mrs. Mary H. Curran and Mr. James C. Stodder. In each case the estate is left in trust and the Library will receive a substantial sum on its expiration.

A detail of the work of the year has been the completion of the binding and sorting of Miss Amy Witherle's gift of 1916 which included files more or less complete of many early Maine newspapers and a few Southern papers of Civil war time. A small number have been bound, and the rest filed away in convenient folders.

See Appendix M.

SERIALS

In 1917 the Library received 247 current serials during a whole or a considerable part of the year. We were subscribers to 135 of these while 112 were presented.

Each year our subscription list changes somewhat; some periodicals are suspended or absorbed into others, some change character and become less desirable, some that have been taken as an experiment fail to justify themselves; and all the time we are receiving requests for special periodicals not on the list.

Our guiding purpose is to take all the very best general magazines and such special ones as are of high grade and satisfy a real demand.

Each year we extend the principle of cooperation with other libraries in the state, in the field of special periodicals, discontinuing serials that are of comparatively little use and taken at the University of Maine or Theological Seminary, and adding those of like scope not otherwise available.

Our accumulation of unbound magazines on the lower floor has been examined and sorted as far as H. A great many volumes have been bound and thousands of duplicate numbers disposed of in various ways.

READING AND REFERENCE DEPARTMENTS

Again we report an active year in these departments. So heavy is the work at certain hours that it has seemed desirable to increase the service at the Information Desk, which now has an attendant on duty 44 hours per week instead of 35 as formerly with two attendants the busiest periods. This work grows constantly but no statistics can be kept as telephone service contributes no small part of it, and the Librarian is always available for it, while the loan desk assistants do a good amount of reference work for the public in the hours when work is light.

The "Interest file," mentioned last year, is growing in use and popularity.

Owing to the absence of Miss Wayland for a long period, the actual output of the department has been less than usual, our only typewritten list of any importance being one on Holland and Belgium for one of our local clubs. Many other lists have been prepared, some of the briefer ones being printed in the "Commercial."

The large work on hand at present is the revision of the genealogical index of newspaper clippings, which is sure to be appreciated by inquirers in that field as soon as it is in form and up to date. The index to "Bangor Historical Magazine" is found to be very useful and a beginning has been made in indexing all names in the "History of Penobscot County." No one is detailed for such work as this, but the odd moments of substitutes are utilized, when they are assigned to loan desk work.

JUVENILE DEPARTMENT

The past year has been a very satisfactory one in our Children's department. There was the usual increase in registration, and a very large increase in the use of the reading room. There was also an increase in the circulation of more than 1,200 volumes over the past year.

Miss Grace H. Bolton, in charge of this department since Jan., 1914, resigned in the spring. This led to the transfer to this responsible position of Miss Elisabeth H. Chapman, who had devoted much time to work with the children. The steady growth in interest and the good work accomplished are most gratifying.

At the beginning of the new year the experiment was tried of having no re-registration, but making the new cards from the past year's application blanks. It was not found to be at all satisfactory, however, and hereafter there will be registration every year as usual.

In the spring we began issuing a special "Mother's card" for the use of those who have children or work with children too young to have a card of their own. This leaves the mother's personal card free for her own use. Forty-five of these cards were issued during the year. Vacation cards were issued as usual at the close of the school year.

During the summer vacation a little instruction was given in the use of the catalogue, encyclopedias, etc. Unfortunately this can only be given to one or two children at a time, because the juvenile catalogue is very small. It is hoped sometime that a great deal more work can be done in this direction.

The circulation did not drop off nearly as much as usual in the summer, the decrease being hardly noticeable. In August the opportunity was taken as usual, of attending the annual mis-

sionary picnic, and talking to groups of children about the library. They were cordially invited to come to the library and take books, and to attend the Story Hour.

In the fall visits were made to the schools the same as last year, and informal talks were given to the children in the second and third grades. They were all given tickets for the next Story Hour, and those in the third grades were urged to take out a card as well. The results of this were extremely large. A great many children registered during the next few weeks, and the attendance at the weekly Story Hour was more than trebled. During December, help in story telling was volunteered by various kindergarten teachers, and this will probably continue through the winter.

Having nothing that specially interested the older children, a reading club has been organized for girls in the seventh grade. This has been found to be a great success, and has between forty and fifty members.

THE STAFF

The year has been one of many changes. Miss Wayland, our Reference Librarian, was out through the spring and summer with a serious illness, but returned to us in the fall. Miss Bolton resigned in the spring to take up her residence in another part of the country, and Miss Chapman who had seen much service with the children was transferred to the Juvenile Dept. Miss Glass was married in the spring, but returned to the service, finally resigning in the fall. Miss Murphy also was married in the summer but has returned to us. Finally Miss Yerxa resigned late in the fall. The vacancies have been filled by the provisional appointment of Miss Christine L. Burnham from our substitute list, and Mrs. Nellie Bullock Banton, one of our older assistants, who comes back after a year's absence.

Mrs. Beach (formerly Miss Marguerite Mills) another of our former employees, has returned temporarily to do special work in the catalogue department.

Our present substitutes are Marion M. Kenney, Winifred L. MacKay, Ruth M. Newcomb, Gertrude Perry and Alice Reid.

MRS. CURRAN

The death of Mrs. Curran on Feb. 19, 1917, removed one who had done for library interests in Bangor more than any other individual. Her service in Bangor libraries began in 1876 and was uninterrupted; as assistant in the Bangor Mechanic Association Library and Bangor Public Library, librarian of the last named and finally associate librarian. For the last two years of her life, physical infirmities had prevented her leaving the house but her interest never wavered in the Library to which she had given so much of her life.

Her strong personality, knowledge of books, love for and devotion to her profession and length of service make her a unique figure in the library annals of the city. She remembered the institution most generously in her will, and we cherish the hope that some day there will be a permanent and appropriate memorial to her in this building.

CLASSIFICATION AND CATALOGUING

The close of the year 1917 has brought us nearly to the completion of one great undertaking in the preparation of a good Fiction catalogue in one alphabet. The "Old Fiction card catalog" has gone and we hope, on the completion of the general fiction catalog in the near future, to print a Fiction finding list for general use.

The main card catalogue shall next claim our attention; another large case of drawers has been secured and it is expected that 1918 will see all the late accessions filed up to date. Owing to pressure of other matters filing in the catalogue is months, and in some cases years, behindhand.

Concurrently with this, we shall begin to catalogue the older books which have been laid aside since 1913 to the number of hundreds and even thousands.

The accumulation of publications of the U. S. departments has now disappeared, being incorporated in the Main library: the Congressional series remains as last year, only the new accessions being added while the unopened sacks of old documents are still in our store room.

Typewritten lists of additions have been posted during the year, as heretofore.

On April 1st Miss Mayberry, our head cataloguer, began to keep detailed statistics of work and reports 8,657 entries revised up to Dec. 31. As very little analytical work is done and many of the entries cover sets of two or more volumes, we can estimate a total of twelve or thirteen thousand volumes catalogued or recatalogued, during the year. If this rate could be maintained we should very soon have the entire library catalogued, but the excess of catalogue entries over new books added in 1917 represents, almost entirely, fiction recatalogued.

PUBLICATIONS

Our printed publications of 1917 include only the annual report of 1916. We also purchased and issued with our own imprint "A guide to books for patriotic Americans." The weekly news letter in the "Commercial" has been continued.

THE LIBRARY AS AN EDUCATIONAL CENTRE

The following organizations have used our lecture room in 1917: Bangor Historical Society; Athene Club; Athene Art Class; *Alliance Francaise; Bangor Federation of Women's Clubs; Bangor Society of Art; The New Thought Centre; Bird Conservation Club; Home Culture Club; Bangor Teachers' Club; High School Pageant Committee; Maine Library Association; Maine Teachers' Association; Nineteenth Century Club; some of the above organizations meeting regularly with us.

The Bangor Society of Art (formerly Fotocraft) has assumed the responsibility for Art exhibitions in our gallery, promising us a series of notable collections during the year and advertising and caring for this department much better than the Library could.

The collection of pictures, etc., on the walls of the History and Fine Arts Room has grown steadily, to such an extent that it will soon become necessary to rehang the entire collection. This will be done as soon as the retinting of the walls, made necessary by leaks in 1916-17, is completed.

Work with the schools continues about as last year: a talk to the 3d grade in the fall by the Children's librarian; a brief statement by the Librarian of what the Library stands for to the various 6th grades just before the summer vacation; and a practical course on the Library and how to use it, to the 11th grade (2d year High School) in the winter term. This last comprises two talks of three-fourths of an hour each before the class as a whole, and then a tour of the Library, with detailed instruction covering about an hour and a half, for groups of 10 to 12.

LIBRARY MEETINGS

The Librarian represented Bangor, and in fact, Maine as a whole, at the annual meeting of the American Library Association, in Louisville, Ky., in June, 1917. War library work was naturally the leading topic of discussion.

The Maine Library Association had its annual meeting at Kittery, in May. Mr. Flagg as vice-president, presided and one of the most interesting papers read was on library work with children, by Miss Grace Bolton. The midyear meeting was held in Bangor in October.

OUTLINE FOR THE COMING YEAR

The four card catalogues have now been consolidated into three (if we except the supplementary alphabet which has grown to large proportions). When the Fiction list is printed, the card catalogues will be further reduced to two: the main Dictionary catalogue and the old Non-Fiction catalogue of books entered before 1913. We trust 1918 will see all filing brought up to date and the card catalogues in perfect order.

The U. S. Departmental publications have now been entirely absorbed into the Main library, but no further progress has been made on the Congressional series, thousands of volumes being on hand and not incorporated. We hope to make some progress in these and also in the cataloging of the older books, laid aside since 1913.

Other arrears of work are the sorting and disposal of our duplicates, and the further reduction of the piles of unbound periodicals.

Respectfully submitted,

CHARLES A. FLAGG,
Librarian.

Bangor, Jan. 15, 1918.

APPENDIXES

APPENDIX A

Growth of the library in 1917, by class

	In Library Jan. 1 1917	Net addition 1917	In Library Jan. 1 1918
General works.....	4,830	382	5,212
Philosophy.....	671	91	762
Religion.....	2,117	460	2,577
Sociology.....	9,909	1,568	11,477
Philology.....	442	78	520
Natural science.....	2,378	549	2,927
Useful arts.....	4,517	909	5,426
Fine arts.....	2,425	273	2,698
Literature.....	2,776	366	3,142
Poetry and drama.....	2,385	213	2,598
Fiction.....	5,947	434	6,381
History.....	6,576	1,212	7,788
Description.....	2,245	229	2,474
Biography.....	3,280	307	3,587
Total.....	50,498	7,071	57,569

APPENDIX B

Growth of the Library in 1917 by source

Number of volumes in Library, January 1, 1917.....	50,498
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1918]

CITY OF BANGOR

209

Additions:

By purchase.....	2,873	
Gift.....	4,229	
Binding periodicals purchased.....	159	
Binding periodicals presented.....	164	
Out before the fire.....	1	
	<hr/>	
Total gain.....		7,426

Withdrawals:

Worn out.....	236	
Duplicates removed.....	53	
Charged and not returned.....	43	
For contagious disease.....	3	
Lost and paid for.....	10	
Recorded by mistake.....	10	
	<hr/>	
Total loss.....		355

Net gain during 1917.....		7,071
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Number of books in Library, January 1, 1918		<hr/> 57,569
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APPENDIX C

Binding and repair, 1917

Volumes of serials sent to bindery.....	835	
Books sent for binding and rebinding.....	1,357	
	<hr/>	
Total.....		2,192
Repaired by binders.....	20	
Repaired at Library, (estimate).....	55	
	<hr/>	
		75

APPENDIX D

Registration

	Main Library	Juvenile Dept.	Total
Registered card holders.....	3,789	1,468	5,257
Ordinary cards re-issued.....	267	112	379
Card holders having study cards.....	2,113	97	2,210
Study cards re-issued.....	9	3	12
Extra study cards issued.....	509	0	509
Total cards issued.....	6,687	1,680	8,367

APPENDIX E

Classes of borrowers

	Main Library	Juvenile Dept.	Total
A Residents of Bangor.....	3,714	1,467	5,181
B Bangor schools, study clubs, etc.....	48	0	48
C Out of town borrowers who pay at the rate of \$3.00 per year.....	1	1	2
D Special borrowers who leave a deposit.....	16	0	16
E Libraries outside of Bangor.....	10	0	10
	3,789	1,468	5,257

APPENDIX F

Circulation by class, 1917

	Main Library	Juvenile Dept.	Total
General works including unbound periodicals.....	7,533	708	8,241
Philosophy.....	542	13	555

1918]	CITY OF BANGOR		211
Religion.....	317	98	415
Sociology.....	1,561	2,423	3,984
Philology.....	138	168	306
Natural Science.....	411	314	725
Useful arts.....	1,387	491	1,878
Fine arts.....	889	280	1,169
Literature.....	1,704	685	2,389
Poetry.....	784	379	1,163
Fiction.....	39,735	14,751	54,486
History.....	2,312	728	3,040
Description.....	685	283	968
Biography.....	1,220	491	1,711
Total.....	59,218	21,812	81,030

APPENDIX G

Circulation by month, 1917

	Main Library	Juvenile Dept.	Total
January.....	6,028	2,117	8,145
February.....	5,506	1,949	7,455
March.....	6,457	2,379	8,836
April.....	4,994	2,115	7,109
May.....	5,013	1,921	6,934
June.....	4,614	1,710	6,324
July.....	4,105	1,498	5,603
August.....	3,945	1,389	5,334
September.....	3,892	1,155	5,047
October.....	4,705	1,504	6,209
November.....	5,069	2,161	7,230
December.....	4,890	1,914	6,804
Total.....	59,218	21,812	81,030

APPENDIX H

Growth and circulation for 7 years

Year	Books in Library Jan. 1	Circulation
1911.....	69,845	22,755 (May-Dec.)
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	

APPENDIX I

Overdue Books

Postal card notices sent in 1917.....	3.207
Second notices.....	134
Fines collected.....	\$401.04
Books lost and paid for.....	10
Books lost and not paid for.....	43

APPENDIX J

Books from Stack used in Reading Room**By class**

General works including unbound periodicals.....	327
Philosophy.....	53

1918]	CITY OF BANGOR	213
Religion.....		37
Sociology.....		254
Philology.....		15
Natural Science.....		86
Useful arts.....		230
Fine arts.....		195
Literature.....		215
Poetry.....		58
Fiction.....		78
History.....		323
Description.....		115
Biography.....		192
		<hr/>
Total.....		2,178

APPENDIX K

By month

January.....	218
February.....	299
March.....	274
April.....	141
May.....	166
June.....	64
July.....	79
August.....	128
September.....	108
October.....	219
November.....	240
December.....	242
	<hr/>
Total.....	2,178

APPENDIX L

Readers in Juvenile Department

January.....	1,162
February.....	1,022
March.....	1,570
April.....	1,008
May.....	901
June.....	939
July.....	748
August.....	843
September.....	668
October.....	933
November.....	1,379
December.....	1,200
Total.....	12,373

APPENDIX M

Gifts to the Library during 1917

Giver	Books & Pamphlets	Serials	Other Things
Academy of Natural Sciences, <i>Philadelphia, Pa.</i>	1		
Adams, Mr. Frederic W., <i>Bangor, Me.</i>	13	54	27
Adriance Memorial Library, <i>Poughkeepsie, N. Y.</i>	5		
Alaskan Engineering Commission, <i>Anchorage, Alaska.</i>		44	
Alexander, Mrs. S. A., <i>Wellesley, Mass.</i>	1		
Alliance Francaise, <i>Paris, France.</i>		21	
Allison, James E., & Co., <i>Saint Louis, Mo.</i>	1		
America-Institute, <i>Berlin, Germany</i>	1		
American Association for International Conciliation, <i>New York City.</i>		17	
American Association for Labor Legislation, <i>New York City.</i>	2		
American Historical Society, <i>New York City.</i>	2		
American Irish Historical Society, <i>New York City.</i>		3	
American Iron and Steel Institute, <i>New York City.</i>		3	
American Issue Publishing Company, <i>Westerville, Ohio.</i>	1		
American Osteopathic Association, <i>Concord, N. H.</i>		12	
American Progress, <i>Washington, D. C.</i>	1		
American Red Cross, <i>Washington, D. C.</i>	1		
American Telephone and Telegraph Co., <i>New York City.</i>	5		
American Union Against Militarism, <i>Washington, D. C.</i>	3		
Andrews, Mrs. Fannie F., <i>Boston, Mass.</i>	1		
Andrews, John B., <i>New York City.</i>	2		

Giver	Books & Pamphlets	Serials	Other Things
Anheuser-Busch Brewing Association, <i>St. Louis, Mo.</i>	1		
Anti-Saloon League of America, <i>Washington, D. C.</i>	1		
Antlers Hotel, <i>Colorado Springs, Colorado</i>	1		
Arnold, Sarah Louise, <i>Boston, Mass.</i>	1		
Association of Life Insurance Presidents, <i>New York City</i>	2		
Atlantic Deeper Waterways Association, <i>Philadelphia, Pa.</i>	1	7	
Bahai Library Committee, <i>Washington, D. C.</i>	2		
Bangor and Aroostook Railroad Co., <i>Bangor, Me.</i> ...	12		
Bangor Chamber of Commerce.....		14	
Bangor Christian Science Association.....		367	
Bangor City Auditor.....		8	
Bangor City Clerk.....	4		
Bangor High School.....		10	
Bangor Independent Congregational Society.....	6		
Bangor Salvation Army.....		23	
Bangor Society of Art.....	1		
Bangor Unity Spiritualist Society.....	3		
Bangor Water Department.....	1		
Bangor Woman Suffrage Association.....		13	
Bangor Women's Christian Temperance Union.....	2		
Bankers Publishing Company, <i>New York City</i>	1		
Barrie's Sons, George, <i>Philadelphia, Pa.</i>	1		
Bird & Co., J. A. & W., <i>Boston, Mass.</i>			22
Blanding, E. M., <i>Bangor, Me.</i>	5	11	
Boston Associated Charities.....	1		
Boston College.....	1		
Boston Museum of Fine Arts.....	1	5	
Boston Port and Seaman's Aid Society.....	1		
Boston Public Library.....	1	5	
Bowdoin College, <i>Brunswick, Me.</i>	2	2	
Brinkerhoff, E. D., <i>Fall River, Mass.</i>	1		
Brockton Public Library, <i>Brockton, Mass.</i>	1	4	

Giver	Books & Pamphlets	Serials	Other Things
Brooklyn Institute of Arts and Sciences, <i>Brooklyn, N. Y.</i>		8	
Brooklyn Public Library, <i>Brooklyn, N. Y.</i>	1	5	
Brookshire, Elijah V., <i>New York City</i>	1		
Brown, Miss Nellie, <i>Bangor, Me.</i>	1	6	
Brown University, <i>Providence, R. I.</i>	1	11	
Bryn Mawr College, <i>Bryn Mawr, Penn.</i>	1		
Bureau of Municipal Research, <i>New York City</i>	3		
Bureau of Railway Economics, <i>Washington, D. C.</i> ...	2	11	
Burlington Free Public Library, <i>Burlington, Iowa</i> ..	1		
Bush, Mrs. Mary L., <i>New York City</i>	51		
Canada, <i>Department of the Interior, Ottawa, Canada</i>	1		
Canadian Government Railways, <i>Boston, Mass.</i>	1		
Carbonnel, Emile, <i>New York City</i>	1		
Cardinal Mercier Fund, <i>Baltimore, Md.</i>	2		
Carnegie Endowment for International Peace, <i>Washington, D. C.</i>	31	15	
Carnegie Endowment for International Peace, <i>Div. of Intercourse and Education, New York City</i>	2	1	2
Carnegie Free Library, <i>Braddock, Pa.</i>	1		
Carnegie Free Library, <i>Cork, Ireland</i>	1		
Carnegie Hero Fund Commission, <i>Pittsburgh, Pa.</i> ...	1		
Carnegie Institute of Technology, <i>Pittsburgh, Pa.</i> ...	2		
Carnegie Public Library, <i>Ottawa, Canada</i>	1		
Case School of Applied Science, <i>Cleveland, Ohio</i>	1		
Catholic University of America, <i>Washington, D. C.</i>	1	2	
Catron, Hon. Thomas B., <i>Washington, D. C.</i>	2		
Chamberlain, George W., <i>Malden, Mass.</i>	2		
Channel Publishing Society, <i>Los Angeles, Cal.</i>		1	
Chattanooga Public Library, <i>Chattanooga, Tenn.</i> ..	1		
Chelsea Public Library, <i>Chelsea, Mass.</i>	1		
Cheney, William A., <i>Los Angeles, California</i>	1		
Chicago Daily News, <i>Chicago, Ill.</i>	1		
Chicago, University of, <i>Chicago, Ill.</i>	1		

Giver	Books & Pamphlets	Serials	Other Things
Church Peace Union, <i>New York City</i>	1		
City Managers' Association, <i>Niagara Falls, N. Y.</i>	1		
Civil Reform Association, <i>New York City</i>	1		
Clark College, <i>Worcester, Mass.</i>	1	3	
Clark University Library, <i>Worcester, Mass.</i>	1		
Clef, <i>Kansas City</i>		3	
Columbia University, <i>New York City</i>	16	4	
Columbia University, <i>Div. of Intelligence and Publicity, New York City</i>		15	
Congregational Conference and Missionary Society of Maine, <i>Portland, Me.</i>		6	
Connecticut State Library, <i>Hartford, Conn.</i>	1		
Cornell University, <i>Ithaca, N. Y.</i>	1	6	
Crosby, James H., <i>Bangor, Me.</i>		41	
Crosby, Miss Mary, <i>Bangor, Me.</i>		32	
Curran, Mrs. Mary H., Estate of, <i>Bangor, Me.</i>	4		1
Dartmouth College, <i>Hanover, N. H.</i>	1		
Daughters of the American Revolution, National Society, <i>Washington, D. C.</i>		12	
Davis, Mrs. Daniel F., <i>Bangor, Me.</i>	7		
Dayton Public Library and Museum, <i>Dayton, O.</i>	1		
Dean Academy, <i>Franklin, Mass.</i>	2		
Deborah Cook Sayles Public Library, <i>Pawtucket, R. I.</i>	1		
Denio, F. B., D. D., <i>Bangor, Me.</i>	7	25	
Denver & Rio Grande Railroad, <i>Denver, Col.</i>		12	
Dexter Town Library, <i>Dexter, Me.</i>	21		
Dillingham, E. F., <i>Bangor, Me.</i>	49	65	
Dixon, Prof. W. Macneile, <i>London, England</i>	128		7
Doane College, <i>Crete, Nebraska</i>	1		
Doran, Geo. H., Company, <i>New York City</i>	8		
Doubleday, Page & Co., <i>Garden City, N. Y.</i>	1		
Dryden, Forrest F., <i>Newark, N. J.</i>	1		1
Dunn, Matthew F., <i>Bangor, Me.</i>		52	
Duren, Miss Mary F., <i>Bangor, Me.</i>	22		

Giver	Books & Pamphlets	Serials	Other Things
Dutton, E. P., & Co., <i>New York City</i>	1		
Eastern Maine General Hospital, <i>Bangor, Me</i>	1		
Enoch Pratt Free Library, <i>Baltimore, Md</i>	1		
Fairmount Park Art Association, <i>Philadelphia, Pa</i>	1		
Farmington State Normal School, <i>Farmington, Me</i>	1		
Farnsworth, Mrs. Belinda, <i>Bangor, Me</i>		11	
Ferguson, Mrs. L., <i>Bangor, Me</i>	9		
Fessenden, James D., <i>New York City</i>	1		
Fitchburg Public Library, <i>Fitchburg, Mass</i>	3	56	
Flagg, Mr. Charles A., <i>Bangor, Me</i>	1	5	
Fletcher, Duncan U., <i>Washington, D. C</i>	2		
Fletcher Free Library, <i>Burlington, Vermont</i>	1		
Forbes Library, <i>Northampton, Mass</i>	1		
Fox, Earl, <i>Bangor, Me</i>	7		
Fox, Mrs. Frederick, <i>Bangor, Me</i>	11		
Frye Publishing Company, <i>New York City</i>	1		
Galbreath, C. B., <i>Columbus, Ohio</i>	1		
Gallupe, Miss L. E., <i>Bangor, Me</i>	2		
Gary, Public Library, <i>Gary, Ind</i>	1		
General Education Board, <i>New York City</i>	1		
General Electric Co., <i>Schenectady, N. Y</i>		26	
George Peabody College for Teachers, <i>Nashville, Tenn</i>		2	
George Washington University, <i>Washington, D. C</i>	1	1	
Georgetown University, <i>Washington, D. C</i>	1		
Georgia, University of, <i>Athens, Georgia</i>		1	
Godfrey, Mrs. Fred, <i>Bangor, Me</i>	5		1
Goodspeed, C. E., <i>Boston, Mass</i>		7	1
Grand Rapids Public Library, <i>Grand Rapids, Mich</i>	1		
Great Northern Railway Company, <i>Boston, Mass</i>	1		
Griffin, Rev. Henry L., Estate of, <i>Bangor, Me</i>	96		
Guaranty Trust Company, <i>New York City</i>	1		
Guernsey, Hon. Frank E., <i>Washington, D. C</i>	2		

Giver	Books & Pamphlets	Serials	Other Things
Haferkorn, Henry E., <i>Washington, D. C.</i>	1		
Haines, Mrs. Flora E. H., <i>Bangor, Me.</i>	25		
Hale, Hon. Frederick, <i>Washington, D. C.</i>	1		
Hall, Mrs. Oliver L., <i>Bangor, Me.</i>	14		
Hanson, Mrs. Katherine J., <i>Brewer, Me.</i>	3		
Hardy, Amos E., <i>Bangor, Me.</i>	176	14	
Hartford Public Library, <i>Hartford, Conn.</i>	1	4	
Harvard University, <i>Cambridge, Mass.</i>	1	1	1
Hatch, Dr. Louis G., <i>Bangor, Me.</i>	1		
Headlam, J. W., <i>London, England.</i>	3		
Heaton's Agency, <i>Toronto, Ontario.</i>	1		
Hebron Academy, <i>Hebron, Me.</i>	1		
Hennessy, Wilfrid A., <i>Bangor, Me.</i>	225	21	30
Herne, Corporal W. W., <i>Walkerville, Can.</i>	1		
Hersey, Hon. Ira G., <i>Washington, D. C.</i>	7		
Hindustan Gadar, <i>San Francisco, Cal.</i>	1		
Holy Cross College, <i>Worcester, Mass.</i>	2	3	
Home Correspondence School, <i>Springfield, Mass.</i> ...	1		
Home Market Club, <i>Boston, Mass.</i>		12	
Houghton Mifflin Company, <i>Boston, Mass.</i>	1		
Hubbard, W. L., <i>Charleston, Me.</i>	3	1	
Huffaker, Hite H., <i>Louisville, Ky.</i>	2		
Hunt, Mrs. W. H., <i>Bangor, Me.</i>		21	
Huston, A. J., <i>Portland, Me.</i>	3		
Illinois, University of, <i>Urbana, Ill.</i>		6	
Indian Rights Association, <i>Philadelphia, Pa.</i>		3	
Insull, Samuel, <i>Chicago, Ill.</i>	1		
International Correspondence Schools, <i>Scranton, Pa.</i>		12	
Japan Society, <i>New York City.</i>	2	1	
Jersey City Free Public Library, <i>Jersey City, N. J.</i>	1	4	
Jesup Memorial Library, <i>Bar Harbor, Me.</i>	1		
Johns Hopkins University, <i>Baltimore, Md.</i>	1	1	
Johnson, Mr. Alfred, <i>Brookline, Mass.</i>	1		
Kahn, Otto H., <i>New York City.</i>	4		

Giver	Books & Pamphlets	Serials	Other Things
Kelley, Miss June, <i>Bangor, Me.</i>	37		
Kent's Hill Seminary, <i>Kent's Hill, Me.</i>	1		
Klepzig, Robert (Adj.) <i>Bangor, Me.</i>	1		
Ladies' Review, <i>Port Huron, Mich.</i>	11		
Lagerberg, Mr. J. de, <i>Shoreham, L. I., N. Y.</i>		1	
Lake Mohonk Conference on the Indian and Other Dependent Peoples, <i>Mohonk Lake, N. Y.</i>	1		
Lane, John, Company, <i>New York City</i>	1		
Lasell Seminary, <i>Auburndale, Mass.</i>	1		
Latin-American News Association, <i>New York City</i>	6		2
Leighton, Vernon, <i>Bangor, Me.</i>		51	
Lepper, George H., <i>Pittsburgh, Pa.</i>	1		
Libbey, Charles O., <i>Westford, N. J.</i>		2	
Loring, Short and Harmon, <i>Portland, Me.</i>		2	
Los Angeles Public Library, <i>Los Angeles, Cal.</i>	1		
Lull, R. W., <i>Manchester, N. H.</i>	1		
Lynn Public Library, <i>Lynn, Mass.</i>	1		
Lyon, Mrs. C. A., <i>Bangor, Me.</i>		4	2
McLaughlin, Miss Annette, <i>Bangor, Me.</i>	1	111	
McLaughlin, Miss Florence, <i>Bangor, Me.</i>	2		52
Maine Agricultural Experiment Station, <i>Orono, Me.</i>	1		
Maine Central Railroad Company, <i>Portland, Me.</i> ...	1		
Maine Commissioners of Inland Fisheries & Game, <i>Augusta, Me.</i>	1		
Maine Historical Society, <i>Portland, Me.</i>	4		
Maine State Department of Health, <i>Augusta, Me.</i>		2	
Maine State Library, <i>Augusta, Me.</i>	241	8	
Maine State Society for the Protection of Animals, <i>Portland, Me.</i>	1		
Maine, University of, <i>Orono, Me.</i>	2	13	
Maine, University of, College of Law, <i>Bangor, Me.</i>		9	
Makanna, Joseph A., <i>Bangor, Me.</i>	11		
Malden Public Library, <i>Malden, Mass.</i>	1		

Giver	Books & Pamphlets	Serials	Other Things
Massachusetts Charitable Mechanic Association, <i>Boston, Mass.</i>	1		
Massachusetts Homestead Commission, <i>Boston, Mass.</i>	1	1	
Massachusetts Institute of Technology, <i>Cambridge, Mass.</i>	1		
Massachusetts State Department of Health, <i>Boston, Mass.</i>	1		
Mast, Mrs. I. N., <i>Ottumwa, Ia.</i>	1		
Mayo, Mrs. Edwin N., <i>Orono, Me.</i>	69	61	
Metropolitan Life Insurance Co., <i>New York City.</i>	3		
Military Order of the Loyal Legion, U. S., Com- mandery of the State of Me., <i>Portland, Me.</i>	1	14	
Milton Public Library, <i>Milton, Mass.</i>	1	1	
Minneapolis, Minn. Board of Park Commissioners	1		
Minneapolis Public Library, <i>Minneapolis, Minn.</i> ..		1	
Minneapolis, Minn. Superintendent of Public Schools.....	1		
Moody, Miss Adele H., <i>Bangor, Me.</i>	1		
Moore, Hon. J. Hampton, <i>Washington, D. C.</i>	4		
Morse, Miss Florence A., <i>Bangor, Me.</i>	25		
Mount Holyoke College, <i>South Hadley, Mass.</i>	1		
Murphy Varnish Company, <i>Newark, N. J.</i>	1		
Myers, John S., <i>Los Angeles, Cal.</i>	1		
National Aniline & Chemical Co., <i>New York City.</i>	1		
National Child Labor Committee, <i>New York City</i>	11	13	1
National Civil Service Reform League, <i>New York</i>		10	
National Emergency Food Garden Commission, <i>Washington, D. C.</i>	59		
National Security League, <i>New York City</i>	1		
National Short Ballot Organization, <i>New York</i> <i>City</i>		6	
National Tax Association, <i>New York City</i>	3	1	
National Tax Association, <i>State Tax Commission,</i> <i>Sacramento, Cal.</i>	1		

Giver	Books & Pamphlets	Serials	Other Things
National Wholesale Liquor Dealers Association of America, <i>Cincinnati, O.</i>	2		
Nealley, Mrs. E. T., <i>Bangor, Me.</i>		59	
New Century Corporation, <i>Point Loma, Cal.</i>		11	
New Haven Free Public Library, <i>New Haven, Connecticut</i>	1	4	
New York Board of Water Supply, <i>New York City</i>	2		
New York, College of Dental and Oral Surgery, <i>New York City</i>	1		
New York College of the City of,.....	1		
New York Merchant's Association, <i>New York City</i>	4	1	
New York Metropolitan Museum of Art, <i>New York City</i>	1		
New York National Bank of Commerce, <i>New York City</i>	18		
New York, National City Bank, <i>New York City</i>	1	12	4
New York Public Library, <i>New York City</i>		23	
New York State Charities Aid Association, <i>New York City</i>	1		
New York State Library, <i>Albany, N. Y.</i>	4		
New York Stock Exchange, <i>New York City</i>	2		
New York, University of the State of, <i>Albany, New York</i>	14	1	
Newark Free Public Library, <i>Newark, N. J.</i>	1		
Newman, Miss Helen L., <i>Bangor, Me.</i>	6		
Northeastern College, <i>Boston, Mass.</i>	1		
Ohio State University, <i>Columbus, O.</i>	1		
Olmstead, Mrs. Ellen W., <i>Bangor, Me.</i>	1	50	
Open Court Publishing Company, <i>Chicago, Ill.</i>	1		
Oriental Esoteric Library League, <i>Washington, D. C.</i>		25	
Osaka Library, <i>Osaka, Japan</i>	2		
Osterhout Free Library, <i>Wilkes-Barre, Pa.</i>		7	
Out-of-Door Players, <i>Peterborough, N. H.</i>	1		1
Paine, Albert W., Estate of, <i>Bangor, Me.</i>	695	100	

Giver	Books & Pamphlets	Serials	Other Things
Paine, Miss Eugenie H., <i>Bangor, Me.</i>	2		
Paine, Francis M., <i>Los Angeles, Cal.</i>			3
Paine, Miss Selma W., Estate of, <i>Bangor, Me.</i>	267		
Paris, Chambre de Commerce de, <i>France.</i>	2	49	
Park, Mrs. L. L., <i>Bangor, Me.</i>		68	
Parker, Sir Gilbert, <i>London, England.</i>	90	6	15
Patch, Hon. Willis Y., <i>Bangor, Me.</i>	1		
Paterson Free Public Library, <i>Paterson, N. J.</i>	1		
Peabody Institute Library, <i>Peabody, Mass.</i>	1		
Peck, Mrs. Ellery E., <i>Bangor, Me.</i>	23		
Peirce, Mellen C., <i>Bangor, Me.</i>	1		
Pennsylvania Division of Distribution of Documents, <i>Harrisburg, Pa.</i>		2	
Pennsylvania Free Library Commission, <i>Harrisburg, Pa.</i>		2	
Pennsylvania School for Social Service, <i>Philadelphia, Pa.</i>	1		
Pennsylvania Museum and School of Industrial Arts, <i>Philadelphia, Pa.</i>	2		
Pennsylvania, University of, <i>Philadelphia, Pa.</i>		1	
Penrose, R. A. F., Jr., <i>Philadelphia, Pa.</i>	1		
Perry, Gertrude, <i>Bangor, Me.</i>	13		
Peterson, O. W., <i>Newcastle, Me.</i>	1		
Pfaff, Adolf, <i>Bangor, Me.</i>	4		
Phillippine Islands, Dept. of Public Instruction, <i>Manila, P. I.</i>	1		
Phillips Exeter Academy, <i>Exeter, N. H.</i>		4	
Pickering, Miss Jane B., <i>Bangor, Me.</i>	26	33	
Porter, Miss Rhoda J., & Mary, <i>Bangor, Me.</i>	32	18	
Portland Cement Association, <i>Chicago, Ill.</i>	16		
Portland Public Library, <i>Portland, Me.</i>	1		
Portland, Oregon, Library Association.....	1		
Power, Ralph L., <i>Boston, Mass.</i>	1		
Pratt Institute, <i>Brooklyn, N. Y.</i>	3		
Pratt Institute Free Library, <i>Brooklyn, N. Y.</i>	1		

Giver	Books & Pamphlets	Serials	Other Things
Primitive Publishing Company, <i>Saint Louis, Mo.</i> ..	7		
Princeton University, <i>Princeton, N. J.</i>	2		
Protestant Episcopal Church, Diocese of Me., <i>Portland, Me.</i>		10	
Providence Public Library, <i>Providence, R. I.</i>	1		
Putnam's, G. P., Sons, <i>New York City</i>	1		
Quimby, H. C., <i>Bangor, Me.</i>	2		
Quinn, Miss Marie, <i>Bangor, Me.</i>	4		
Railway Executives Advisory Committee, <i>New York City</i>	9		
Raymond, George L., <i>New York City</i>	2		
Rensselaer Polytechnic Institute, <i>Troy, N. Y.</i>		1	
Ringrose, Jerome A., <i>London, England</i>	1		
Roberts, Miss Charlotte, <i>Bangor, Me.</i>	192	61	
Robinson, Miss Mary C., <i>Bangor, Me.</i>	3		
Rockefeller, John D., Jr., <i>New York City</i>	1		
Rockefeller Foundation, <i>New York City</i>	2		
Rosicrucian Fellowship, <i>Oceanside, Cal.</i>		12	
Russell Sage Foundation Library, <i>New York City</i> ..		6	
Sagamore Sociological Conference, <i>Boston, Mass.</i> ...	1		
St. Louis City Plan Commission, <i>Missouri</i>	3		
St. Louis Mercantile Library Association, <i>Missouri</i>	1		
St. Louis Public Library, <i>Missouri</i>	1	12	
San Francisco Chamber of Commerce, <i>San Francisco, California</i>	1		
Sanchez, Belisario Bustos, <i>Santiago de Chile</i>	2		
School News Co., <i>New York City</i>		40	
Schumann Club, <i>Bangor, Me.</i>	3		
Scott, Mrs. A. R., <i>Bangor, Me.</i>	9		
Scranton Public Library, <i>Scranton, Pa.</i>	1		
Seattle Public Library, <i>Seattle, Wash.</i>	1		
Seven Arts, <i>New York City</i>	1		
Shafroth, Hon. John T., <i>Washington, D. C.</i>	1		
Shaw, A. W., Company, <i>Chicago, Ill.</i>	1		
Simmons, Hon. F. W., <i>Washington, D. C.</i>	6		

Giver	Books & Pamphlets	Serials	Other Things
Small, Mrs. F. H., <i>Bangor, Me.</i>	8		
Smith, Mr. C. J., <i>Seattle, Wash.</i>	1		
Smith, George D., <i>New York City</i>	1		
Smithsonian Institution, <i>Washington, D. C.</i>	33	43	
Spratt, Miss Mary R., <i>Bangor, Me.</i>	26	262	2
Springfield, Ill., Insurance Dept.....	1		
Springfield City Library Association, <i>Springfield, Mass.</i>	1		
Stephens, C. W., <i>Bangor, Me.</i>	1		
Stetson, Mrs. Augusta E., <i>New York City</i>	1		
Stetson, Col. I. K., <i>Bangor, Me.</i>	2		
Stetson, Simeon, <i>Bangor, Me.</i>		15	
Stodder, James C., Estate of, <i>Bangor, Me.</i>	234	434	29
Stowell, Mr. Wm. H. H., <i>Amherst, Mass.</i>	1		
Strickland, Miss Anna, <i>Bangor, Me.</i>	13		
Theosophical Society, <i>Brooklyn, N. Y.</i>		4	
Thompson, Mrs. J. A., <i>Bangor, Me.</i>	2		
Thompson, Slason, <i>Chicago, Ill.</i>	1		
Thornton Academy, <i>Saco, Me.</i>	2		
Tilson, Hon. John Q., <i>Washington, D. C.</i>	1		
Towle, Davis V., <i>Bangor, Me.</i>	31		
Tracy, James, <i>Bangor, Me.</i>		13	
Tufts College, <i>Boston, Mass.</i>	1		
Union Pacific Station, <i>Boston, Mass.</i>			1
United Commercial Travelers, Bangor Council, <i>Bangor, Me.</i>	1		
U. S. Bureau of The Public Health Service, <i>Washington, D. C.</i>	17		
U. S. Committee on Public Information, <i>Washington, D. C.</i>	6		
U. S. Dept. of Agriculture, <i>Washington, D. C.</i>	1	44	
U. S. Dept. of Agriculture, Forest Service, <i>Washington, D. C.</i>		1	
U. S. Dept. of Agriculture, Weather Bureau, <i>Washington, D. C.</i>	1	3	

Giver	Books & Pamphlets	Serials	Other Things
U. S. Dept. of Commerce, Bureau of Standards, <i>Washington, D. C.</i>		1	
U. S. Dept. of Commerce, Steamboat Inspection Service, <i>Washington, D. C.</i>	1		
U. S. Dept. of Labor, <i>Washington, D. C.</i>	30	20	
U. S. Dept. of State, <i>Washington, D. C.</i>	1		
U. S. Dept. of the Interior, Bureau of Mines, <i>Washington, D. C.</i>	2	11	
U. S. Dept. of the Interior, General Land Office, <i>Washington, D. C.</i>		11	
U. S. Dept. of the Interior, Geological Survey, <i>Washington, D. C.</i>	8		
U. S. Dept. of the Interior, Reclamation Service, <i>Washington, D. C.</i>	8		
U. S. Food Administration, <i>Washington, D. C.</i>	3		
U. S. Food Administration, <i>Orono, Me.</i>			3
U. S. Interstate Commerce Commission, <i>Wash- ington, D. C.</i>	16		
U. S. Library of Congress, Copyright Office, <i>Washington, D. C.</i>	4	4	
U. S. Military Academy, <i>West Point, N. Y.</i>	1		
U. S. Patent Office, <i>Washington, D. C.</i>	1	1	
U. S. Supt. of Documents, <i>Washington, D. C.</i>	660	3,756	25
U. S. Treasury Dept., Bureau of Public Health Service, <i>Washington, D. C.</i>		26	
U. S. Treasury Dept., Coast Guard, <i>Washington, D. C.</i>	2		
U. S. War Dept., <i>Washington, D. C.</i>	1		
U. S. War Dept., Bureau of Insular Affairs, <i>Washington, D. C.</i>	1		
U. S. War Dept., Office of the Chief of Staff, <i>Washington, D. C.</i>		1	
United States Brewers Association, <i>New York City</i>	1		
United States Casualty Co., <i>New York City</i>	1		

Giver	Books & Pamphlets	Serials	Other Things
United States Steel Corporation, <i>New York City</i>	1		
Vedanta Centre, <i>Boston, Mass.</i>		10	
Vermont University, <i>Burlington, Vt.</i>	3	1	
Viereck's Library, <i>New York City</i>		3	
Walker, Miss A. C., <i>Bangor, Me.</i>	1		
Walker, Mr. James P., <i>Bangor, Me.</i>	19	4	
Walz, William E., <i>Bangor, Me.</i>	4		
Ward, John & Son, <i>New York City</i>	1		
Ware, Miss Amy, <i>Bangor, Me.</i>	1		
Warren Foundry & Machine Co., <i>Phillipsburg, N. J.</i>	1		
Washington, University of, <i>Seattle, Wash.</i>	1		
Waterhouse, S. W., <i>San Francisco, Cal.</i>	1		
Webster, Miss Mary L., <i>Bangor, Me.</i>		3	
Weeks, George F., <i>Washington, D. C.</i>		10	
Wellesley College, <i>Wellesley, Mass.</i>	1		
Westminster Public Libraries, <i>London, Eng.</i>	1		
Weston, Edmund Brownell, <i>Central Falls, R. I.</i>	1		
Wheaton College, <i>Norton, Massachusetts</i>	1		
Whittemore, Russell, <i>Bangor, Me.</i>	1		
Whittier, Miss Ruth A., <i>Bangor, Me.</i>		2	
William and Mary, College of, <i>Williamsburg, Va.</i> ...	2	1	
Williamson, M. L., <i>Washington, D. C.</i>		13	
Wilmington Institute Free Library, <i>Wilmington, Delaware</i>	1	4	
Winchester, Mr. J. H., <i>Corinna, Me.</i>	16		
Wood, Mrs. Charles H., <i>Bangor, Me.</i>	24		
Woodman, Mrs. E. F., <i>Bangor, Me.</i>	4		
Woodman, Hon. John F., <i>Bangor, Me.</i>	1		
Woolson, Mrs. Abba Gould, <i>Portland, Me.</i>	1		
Worcester Free Public Library, <i>Worcester, Mass.</i>	2	6	
World Peace Foundation, <i>Boston, Mass.</i>		5	
Yale University, <i>New Haven, Conn.</i>	1		
Yale University Library, <i>New Haven, Conn.</i>	1	1	
Source Unknown.....	85	8	

Report of the Board of Health

To His Honor the Mayor, and Gentlemen of the City Council:

The Board of Health submits its annual report concerning the work of the Health Department for the year ending March 1st 1918.

The Board held its first meeting of the year for organization, and the transaction of business, April 10, 1917, with all members present, viz., John E. Kelley, Dr. Harrison L. Robinson, and John Goldthwait.

The Board at this meeting elected John E. Kelley, Chairman, and John Goldthwait, Secretary and Executive Officer for one year.

The following figures will show the number of contagious diseases in our city the past year, also deaths and births. The number of resident deaths from various causes for the year 1917 was four hundred and seventeen, at an estimated population of 26,000, the death rate would be 16 per 1,000. Non-resident deaths at the several hospitals in the city were two hundred and six. The births for the year were 498; a gain over the deaths of 81.

There has been reported to the board for the year ending March 1st 1918, fourteen cases of diphtheria with two deaths, and seven mild cases of scarlet fever with one death, also fifty-five cases of typhoid fever with fourteen deaths. Most of these

cases of typhoid were early last spring. The first one reported was March 5, 1917. The deaths from tuberculosis were forty-eight. We have had thirty-seven cases of small pox in our city this year. The first case was reported May 11, and the last one was Feb. 12, 1918. They have been scattered pretty well through the year. They have all been of a mild type but are expensive to handle. These cases came from the lumber camps and the drives. The men go up river and have not been vaccinated and get the small pox and they are dumped into our city for us to take care of, and we do not think this is right. We think the State of Maine should have a law that all the men that go to work in the Maine Woods cutting logs or pulp wood should be vaccinated as soon as they get to the camps, that would save their having it, and would save expense for Bangor, and for the people that are hiring men for the woods. The persons that have had small pox here this past year had never been vaccinated.

The following is a report of the work done in the Plumbing Ordinance Department the past year. Four hundred and fifty permits issued for plumbing work. A four-inch iron vent-pipe from drainage system has been carried through roofs in fifteen old houses. Thirty old Hopper Cock closets replaced with new ones. Twenty-eight tile or crock drains have been replaced with iron pipe. Forty-four sink wastes that were found unsanitary have been properly trapped and connected with drains. Twenty-five sewer entrances have been made, also one thousand two hundred and fifty inspections.

Our city needs a building that can be used for a contagious disease hospital. It wants to be near a sewer also the city water. A building that can be used anytime of year and be warm and comfortable and handy to get at. The present building is not

fit to use in cold weather. It is old and is dropping to pieces. We hope the incoming City Government will attend to this matter at an early date. They also need some kind of a close carriage to move anyone that may be sick. In order to do this kind of work, the Board of Health must have something to work with.

We hope the incoming City Government will remember when they are making their appropriations, that there are a good many places where sewers are needed, and would be a great benefit, and we hope they will make a good appropriation for sewers for the people are ready and willing to pay their part in order to get some drainage for their property. In many places the sewers would not be expensive and are much needed. One thousand eight hundred feet of new sewers were laid last year which helps, but it is hard work to keep places clean unless you can get good drainage.

We would like to keep this fact before the people that if they want to do any filling in on their premises they must get permission from the Board of Health, and must keep the place in proper sanitary condition at all times, and if not they are liable to a fine.

The dumps have been well looked after and have caused very little trouble or complaint. There are two good men, one on each dump, and they look after the places very well. In this report we call the attention of the public to the fact that there is a dump on the east side on the extension of Pine Street and on the west side on Sidney Street, near Third Street, and ask them to remember that their waste and rubbish must be put there where it will be properly taken care of. We thought perhaps some of the people might forget where the dumps were, so we call their attention to the matter in this report.

Through this report we wish to thank most heartily all citizens and particularly the physicians for the promptness in reporting contagious diseases, and also for the cordial support which they have given us in the performance of our duties. We wish also to thank the Mayor and City Government for their kindness and assistance.

Respectfully,

JOHN E. KELLEY, } Board
D. A. ROBINSON, } of
JOHN GOLDTHWAIT, } Health.

Report of the Harbor Master

To the Mayor and City Council of Bangor:

Gentlemen:

The Harbor Master submits his report for the year 1917-1918.

The ice left the river Tuesday, April 3rd, and the port closed to navigation Monday, December 10th, 1917.

Open to navigation 252 days.

During this time 651 vessels arrived: 336 steamers, 158 schooners, 149 barges, 2 yachts, 1 motor barge and 5 United States War vessels, with a gross tonnage of 551,432 tons.

Foreign vessel to arrive from coastwise port 1. Cleared for foreign ports 2.

During the year merchandise arrived by vessel as follows:

257,612 tons of coal
42,500 barrels of kerosene
52,000 barrels of gasoline
1,099 tons of coke
115 tons of gravel
165 tons of granite
19 tons paper
25 tons old iron
2129 cords of pulp wood

297,000 bricks

858,000 feet of lumber

Have made monthly reports to the United States Fuel Administration, also reports to number and size of wharves and depth of water at same, and reports to the Committee on Public Safety.

Respectfully submitted,

EDWIN LORD,
Harbor Master.

Report of the City Undertaker

To the City Council:

The undersigned would respectfully submit the following report for the year ending March 1, 1918:

PROTESTANTS

Died in March, 1917.....	51
April, 1917.....	44
May, 1917.....	55
June, 1917.....	41
July, 1917.....	38
August, 1917.....	28
September, 1917.....	35
October, 1917.....	47
November, 1917.....	37
December, 1917.....	48
January, 1918.....	52
February, 1918.....	46
	<hr/>
	522

AGE

Under 1 year.....	42
Between 1 and 5 years.....	14
5 and 10 years.....	7
10 and 20 years.....	20

20 and 30 years.....	37
30 and 40 years.....	40
40 and 50 years.....	57
50 and 60 years.....	53
60 and 70 years.....	91
70 and 80 years.....	92
80 and 90 years.....	61
Over 90 years.....	8

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DISEASES

Apoplexy.....	10
Angina Pectoris.....	4
Asphyxiation.....	2
Appendicitis.....	3
Abscess.....	3
Arterio Sclorosis.....	10
Anaemia.....	1
Asthma.....	2
Accident.....	14
Bright's disease.....	1
Bronchitis.....	2
Brain.....	5
Cancer.....	15
Convulsions.....	3
Carcinoma.....	12
Cholera Infantum.....	2
Colitis.....	2
Diphtheria.....	2
Dropsy.....	1
Diabetes.....	1
Dementia.....	10
Edema.....	16
Epilepsy.....	1
Exhaustion.....	6
Enteritis.....	4
Erysipelas.....	4

Embolism.....	5
Endocarditis.....	12
Empyema.....	4
Gangrene.....	3
Heart.....	36
Hemorrhage.....	27
Hernia.....	2
Intestinal obstruction.....	4
Inanition.....	1
Influenza.....	1
Indigestion.....	2
Malnutrition.....	5
Melancholia.....	1
Myocarditis.....	8
Meningitis.....	6
Nephritis.....	22
Oedema.....	4
Old age.....	11
Poisoning.....	2
Peritonitis.....	17
Paresis.....	4
Pneumonia.....	58
Premature birth.....	10
Paralysis.....	6
Pellagra.....	4
Rheumatism.....	1
Stenosis.....	1
Sarcoma.....	1
Shock.....	11
Sepsis.....	4
Stillborn.....	5
Suicide.....	3
Septicemia.....	3
Senility.....	1
Tuberculosis.....	26
Typhoid fever.....	8
Tetanus.....	1
Thrombosis.....	9

Tumor.....	1
Uremia.....	4
Other causes.....	52
	<hr/>
	522
Brought to Bangor for interment.....	89
Carried out of Bangor for interment.....	290
Interments at Mt. Hope Cemetery.....	280
Interments at Pine Grove Cemetery.....	16
Interments at Oak Grove Cemetery.....	18
Interments at Maple Grove Cemetery.....	7

Respectfully submitted,

R. E. HATHORN,
Supt. of Burials.

Report of the Milk Inspector

To the Honorable Mayor and Members of the City Council:

I herewith submit my annual report for the year ending March 1st, 1918.

The number of persons and firms engaged in selling and delivering milk to families, stores, boarding houses, hotels, etc., in the City of Bangor, in the past year, is about forty-nine (49). The number of producers who do not run milk teams but who sell their product direct to the regular milkmen is fifty-nine (59), or more. About forty-six (46) storekeepers in and about the city carry milk and cream in stock

The milkmen using teams for delivering to their customers in the city are all registered as dealers with the Department of Agriculture of the State, in Augusta, this year. Their names and registered numbers, places of business, with the names of other producers from whom more or less of them purchase a portion of their stock, and in some cases all of it, appear on the records in the office of that Department in City Hall. The producers, other than the so called regular milkmen, are as usual not all so registered with the Department of Agriculture of the State, as the state law requires, but their names, places of residence and the names of milkmen to whom they dispose of their product are recorded in the city records of this Department.

Few complaints of unsatisfactory milk have been received during the past year.

The reports in the quarterly bulletins, issued by the Department of Agriculture of the State, indicate by their analysis of samples taken from dealers in this section, that the greater portion of our supply is about up to the standard

Milkmen this year have complained of a great shortage of competent farm help, which fact has made it difficult for many of them to carry on their business satisfactorily. There is a sufficient number of dealers in the business in this vicinity who can supply the best any market affords.

Respectfully submitted,

FRANK DWINAL,
Milk Inspector.

Report of the City Engineer

Bangor, Maine, March, 1918.

To His Honor, the Mayor and City Council:

The City Engineer herewith submits his annual report for the year ending February 28th, 1918. 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:

Boutelle Road
Boyd Street
Buck Street
Carr Street
Cedar Street
Center Street
Charles Street
Congress Street
Cumberland Street
East Street
Elizabeth Avenue
Fern Street

Fountain Street
French Street
Front Street
Fruit Street
Hancock Street
Holland Street
Kenduskeag Avenue
Leighton Street
Lincoln Street
Montgomery Street
Ohio Street
Pine Street

Savage Street	State Street
Second Street	Summer Street
Sixth Street	Thirteenth Street
Sixteenth Street	Union Street
South Park Street	Webster Avenue
Spring Street	West Street
	West Broadway

STREET GRADES

Boutelle Road	Main Street
Center Street	Ohio Street
Central Street	Spring Street
Hammond Street	State Street
Larkin Street	Thirteenth Street
Leighton Street	West Broadway

TAR CONCRETE WALKS

Measurements have been made and certificates issued for payment on concrete walks during the year as follows:

NEW CONCRETE SIDEWALKS

	Sq. yds.
Boutelle Road, Wly side.....	326.22
Congress St. Nly side from Center to Norfolk St.....	276.97
Congress St. Nly side from Leighton St. Ely.....	55.33
Fountain St. Ely side in front of premises of L. T. Gray.....	39.72
Leighton St. Wly side, Montgomery St. Nly.....	266.99
Leighton St. Ely side from Congress to Montgomery St.....	210.33
Maple St. Ely side in front of premises of J. F. Daley.....	78.94
Montgomery St. Sly side at Ely side Leighton St.....	5.00
Pine St. Ely side between Hancock and York St.....	172.04
West Broadway, S. E. side from Hammond to Bowdoin St.....	255.65
	<hr/>
	1,687.19

CONCRETE SIDEWALKS RECONSTRUCTED

Boutelle road, Wly side, front premises of B. W. Stevens.....	50.00
Center St. Ely side between Somerset and Cumberland Sts.....	174.67
Cumberland St. Sly side between Center and French St.....	101.13
French St. Wly side in front of premises of W. Edgerly.....	74.53
Main St. SEly side in front of premises of Albert Wheelden.....	172.25
Main St. NWly side near Auditorium.....	109.84
	<hr/>
	682.42

CONCRETE SIDEWALKS RECOATED

	Sq. yds.
Boutelle Road, Wly side in front of premises of H. E. Johnston....	15.50
Center St. Ely side between Somerset and Cumberland St.....	175.06
Congress St. N. side in front of premises of M. A. Patterson.....	59.80
Congress St. S. side from Norfolk St. Ely.....	66.10
Cumberland St. S. side between Center and French St.....	108.17
Cumberland St. N. side at Wly side French St.....	8.22
Leighton St. E. side Nly of Montgomery St.....	101.00
Maple St. W. side in front of premises of Emma Osborne.....	32.46
McKinley St. N. side from Center to Norfolk St.....	243.10
Norfolk St. E. side near McKinley St.....	49.00
Second St. S. E. side near No. 23.....	14.08
West Broadway, S. E. side at Hammond St.....	5.08
	<hr/>
	877.57

NEW CONCRETE CROSSWALKS

Across Bowdoin St. at S. E. side West Broadway.....	55.64
Across Linden St. at W. side Leighton St.....	50.51
Across Norfolk St. at N. side Congress St.....	75.97
	<hr/>
	182.12

CONCRETE CROSSWALKS RECONSTRUCTED

Across Second St. near No. 23..... 66.11

LAYING OUT OF STREETS AND GRADES

Proceedings were held on laying out of grade of Thirteenth Street from Hammond to Union Street and surveys, plans, etc., made for same.

The name of Olive Court was changed to Olive Heights and the name of East Market Square was changed to Post Office Square.

SEWER SURVEYS

Surveys, plans and profiles were made and reports submitted for the following sewers during the past season.

Fountain St. sewer at Montgomery St.
 Larkin St. Auxilliary sewer near Third St.
 Savage St. Sewer. Overflow for West Broadway sewer.
 Thirteenth St. sewer to proposed schoolhouse.
 Woodbury and Bryant St. sewer.

All new construction and property assessments have been duly recorded in the plan books of the department. The two large sewer maps have also been brought up to date.

STREET NUMBERING

The total number of buildings numbered during the year has been 57 and the total number of numbers issued has been 74.

STREET SIGNS

137 new enameled metal street signs were purchased by the department. These were placed at the intersections of streets leading into State, Center, Hammond and Ohio streets and in the business district.

7 temporary wooden signs were placed in different places.

Auto speed limit signs were placed on Hancock, Essex and Main streets.

“Danger, Go Slow” signs were placed to protect the junction of Center and Cumberland Sts., Washington St. at Bangor & Brewer bridge, Ohio St. and Griffin Road, Odlin Road at Maine Central R. R. and Main St. at the Tin Bridge.

COPYING CITY RECORDS

The work of transferring the plans in Plan Book No. 1 to a loose leaf plan book has been completed. The original Plan Book No. 1 is in poor condition and should be rebound and placed in some safety deposit vault for safe keeping and the copy kept in this office.

PAVING

MAIN STREET BITUMINOUS MACADAM

The bituminous macadam road on Main street was completed by the contractors, Small & Ingalls & Murtagh Hughes. This work was carried to Catell street in 1916 and this year was finished to a point near the car barn. 2,318 square yards of bituminous macadam were laid.

The Bangor Railway & Electric Co. placed 2244 square yards of concrete pavement between its rails.

That portion of the road on the northwesterly side of the street which was finished early in 1916, was given a surfacing of oil and pea stone. The City furnished the oil and stone and the contractors furnished the labor and equipment for this work.

MAIN STREET WOOD BLOCK PAVING

Surveys, plans and profiles were made of Main Street from Union to May Street, specifications prepared and bids advertised for paving same with wood block. The contract was awarded to John Grady & Son. The old curbing on the southeasterly side of the street was removed and placed on the northwesterly side and new curbing was placed on the southeasterly side. A new cement concrete crosswalk was constructed across May Street. The following is a list of work done under this contract.

Wood block paving laid for City of Bangor.....	1,100.53	Sq. yds.
Wood block paving laid for B. R. & E. Co.....	577.30	"
Curbing removed and reset.....	273.7	Linear ft.
New curbing furnished and set.....	250.3	"
Granite headers reset at ends of paving.....	77.4	"
Portland cement concrete crosswalk.....	100.82	Sq. yds.

STATE STREET PAVING

The contract for paving State Street from Kenduskeag Bridge to Exchange Street was awarded to John Grady & Son. On this work wood block was used for a distance of sixty feet from Kenduskeag Bridge and the remainder was paved with improved

granite blocks. These blocks are smaller and much more uniform than the granite blocks formerly used in this city, being about four inches wide on top, five inches deep and about ten inches long. They are laid on a cement concrete base and give a fairly smooth, even surface. The joints on the south side of the street and between the rails of the B. R. & E. Co. were filled with sand and pitch, while on the north side the joints were filled with cement grout. Pavement laid on State Street is as follows:

	Sq. yds.
Wood block paving laid for City of Bangor.....	187.03
Wood block paving laid for B. R. & E. Co.....	130.28
	<hr/>
	317.31
Granite block paving laid for City.....	367.15
Granite block paving laid for B. R. & E. Co.....	288.00
	<hr/>
	655.15
Total amount of pavement laid on State St.....	972.46

STATE AID ROAD

That part of the State Aid Road on Hammond Street which was commenced in 1916 was completed during the spring of 1917.

Bids were advertised by the State Highway Commission Office for constructing one mile of gravel road, stone base, etc. Two proposals were received for this work, Henry A. Day \$16,513 and M. Hughes \$11,510.40, the contract being awarded to Mr. Hughes, the lowest bidder. The section of road improved under the 1917 contract begins near the Odlin Road and extends in a westerly direction one mile to a point about 500 feet easterly of the Tyler Stand, so called. Work was commenced September 19 and carried on until December 1st, 1917.

Work will be resumed on 1917 contract as soon as the ground will permit. This work is under the direct control of the State Highway Commission, all payments, etc., being made through that office.

Surveys were made by this office to determine the correct way to drain the low piece of road from the Rich farm to the Cooper road, and the plan and profile of same sent to the State Highway Commission.

There remains about 3,000 feet of road on Hammond Street to be improved and would recommend that work be continued on this unimproved section this coming season.

FINANCIAL STATEMENT

Appropriated by City, Section 18.....	\$4,259 00
Appropriated by City, Section 21.....	1,205 61
Appropriated by State, Section 20.....	3,194 25
Appropriated by State, Section 21.....	1,130 26
Unexpended balance, 1916.....	787 53
Additional appropriation by city.....	1,200 00
	<hr/>
Total appropriation to be applied on 1917 contract.....	\$11,776 65

BRIDGES

The expenditures for this department have been for necessary repairs and maintenance of the ten bridges crossing Penobscot River and Kenduskeag Stream.

BANGOR AND BREWER BRIDGE

The Bangor and Brewer Bridge has received the usual amount of attention, new planking being placed on the foot walk. It

was found necessary, during the winter, to remove considerable snow from the roadway of the bridge. I believe this is the first winter since the steel bridge was constructed that it was found necessary to remove snow from the same. Expenditures on this bridge include the pay of the patrolman, who has assisted in keeping the bridge clean and sprinkled as well as maintaining good order.

MAINE CENTRAL R. R. WALK

A new hard pine railing was placed on this walk during the summer and painted and planks were renewed where necessary.

KENDUSKEAG BRIDGE

The work of replacing the steel and cement arches on Kenduskeag bridge was completed during the season and surface was paved with wood block.

CENTRAL STREET BRIDGE

Extensive repairs were made to the floor system on this bridge. Early in the summer holes appeared in the bridge, and upon investigation I found that the floor system supporting the wood block paving was very weak, this weakness was due to the improper spacing of floor timbers, etc. I found the floor timbers would average about three feet apart, upon the timbers two-inch plank was placed, making necessary the removal of the entire floor system and the construction of a new system.

SALT MILLS BRIDGE

The flooring on this bridge was renewed, with the addition of several new floor timbers, and a new bulkhead was constructed on the southerly end of the bridge.

MERRILL'S MILLS BRIDGE

This bridge has received extensive repairs during the past fall and winter. New casings were placed around the two piers. During the winter we have placed new floor timbers throughout the entire length of the bridge and I find that the floor system will have to be entirely renewed this coming season. This bridge is commonly known as Bulls Eye Bridge.

PUSHAW ROAD BRIDGE

It was found necessary to repair the northerly pier of this bridge, due to the fact that the upriver end of the pier was practically demolished during the spring freshet.

All other bridges under the control of this department have received more or less attention.

STREET SPRINKLING

Street sprinkling was done by the Highway Department, the assessments were computed by this office.

Total cost of sprinkling	\$9,765.64
Revenue earned	8,416.07
Number of Streets sprinkled	131.00
Total number of miles sprinkled	30.36
Average cost per mile	\$321.66
Average cost per linear foot	0.0609

MISCELLANEOUS SURVEYS, PLANS, ESTIMATES
AND SPECIFICATIONS

Measurement of buildings at City Stables for insurance purposes.

Measurement of buildings at City Farm for insurance purposes.

Measurement of School Buildings for insurance purposes.

Specifications for 5,000 cubic yards of gravel delivered on streets.

Baseball Diamond at Maplewood Park staked for High School.

Football Gridiron at Maplewood Park staked for High School.

Survey of Jewish Cemetery and part of Public Grounds, Mount Hope Cemetery. Description and plan of lot to be conveyed by city to Chevra Beth Abraham Anshe Sphard.

Plan of property on Sanford Street from Cedar to Warren Street compiled for Assessors.

Survey of portion of Ohio Street for proposed change in location of B. R. & E. Co. tracks.

The two large maps of the Water Department were brought up to date, all new construction being added.

Surveys of schoolhouse lot on Thirteenth Street, description for deed, cross section plan for Architect, lines and levels for Contractors.

The two large maps of the Sewer department were brought up to date, all new construction being added.

FINANCIAL STATEMENT

Appropriations bridges	\$6,500 00
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EXPENDITURES

General.....	\$ 101 68	
Bangor and Brewer bridge.....	1,647 68	
Central St. bridge.....	1,290 61	
Merrill's Mills bridge.....	1,171 56	
Salt Mills bridge.....	480 48	
Kenduskeag bridge.....	741 37	
Pushaw road bridge.....	410 45	
M. C. R. R. bridge.....	377 06	
Morse's Mills bridge.....	170 67	
Red bridge.....	11 20	
Mt. Hope Ave. bridge.....	1 25	
Six Miles Falls bridge	9 66	
		6,413 67
Unexpended balance.....		\$86 33

FINANCIAL STATEMENT

Appropriation; Engineering salary.....	\$3,500 00	
Appropriation; Engineering expense.....	600 00	
		\$4,100 00
Pay roll.....	\$3,493 89	
General expense and street signs.....	598 53	
		4,092 42
Unexpended balance.....		\$7 58

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CITY OF BANGOR

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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 Street Commissioner

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

Gentlemen:

The Street Commissioner herewith submits his annual report for the year ending February 28, 1918.

Appropriation and balance from last year.....	\$106,300 00
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TOTAL LIST OF EXPENDITURES

General administration.....	2,141 91
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GENERAL HIGHWAY EXPENDITURES

Salaries and wages.....	\$20,071 94
Material.....	8,618 37
Supplies.....	551 93
Veterinary and medicine.....	60 30
Suburban agents.....	1,795 18
Hay, grain and straw.....	5,378 95
Equipment, renewals and repairs.....	2,760 27
Horse shoeing.....	582 65
Insurance.....	1,042 44
Gasoline and oil for auto.....	686 27

1918]

CITY OF BANGOR

255

All other.....	165 99	
Horses.....	500 00	
Rubber coats.....	42 00	
Auto.....	382 00	
Repairing road.....	289 76	
	<hr/>	
Total general highway expenditures.....		\$42,928 05
Sidewalks and curbing repaired and maintained.....	\$ 1,069 54	
Snow and ice removal.....	11,440 61	
Sprinkling.....	9,815 64	
Re-construction general.....	188 99	
Construction State road.....	7,790 00	
Re-construction sidewalks and curbing.....	1,218 97	
Construction sidewalks and curbing.....	1,917 56	
Construction Main and State Streets.....	9,858 60	
Equipment horses.....	650 00	
Refuse and garbage.....	2,733 25	
Street cleaning.....	8,626 36	
	<hr/>	
Total amount expended.....		100,379 48
Unexpended balance.....		\$5,920 52

GRAVEL ON STREETS FROM MOSQUITO MOUNTAIN

Allen St.....	99 loads
Burleigh Rd.....	3 loads
Cedar St.....	253 loads
Cooper Rd.....	58 loads
Center St.....	10 loads
Essex St.....	85 loads
Emerson St.....	38 loads
Fern St.....	10 loads
Fuller Rd.....	652 loads
Fourteenth St.....	112 loads
Fourth St.....	71 loads

The following loads of gravel were hauled by the Department the Hughes Bank:

Hammond St.....	47 loads
Main St. Construction.....	998 loads
Main St. Sidewalk.....	2 loads
Olive Heights.....	12 loads
Olive Ct.....	8 loads
Pearl St.....	187 loads
Thatcher St.....	8 loads

THE GRAVEL CONTRACT
FROM HUGHES GRAVEL BANK

Buck St.....	334.88 Cu. Yds.	
Bowdoin St.....	158.12	"
City Yard.....	61.81	" (Patching)
Curve St.....	143.87	"
Cumberland St.....	24.51	"
Dutton St.....	101.38	"
Elizabeth Ave.....	143.40	"
Fruit St.....	184.95	"
Hubbard St.....	34.00	"
Lincoln St.....	90.43	"
Market St.....	1,085.04	"
Norway Rd.....	496.87	"
Pier St.....	59.62	"
So. Park St.....	45.63	"
Sanford St.....	306.47	"
Savage St.....	341.15	"
Spring St.....	147.82	"
State St.....	57.22	" (Patching)
Summer St.....	125.84	"
Third St.....	153.18	"
Vernon St.....	117.13	"
Wing St.....	260.02	"
Washington St.....	599.04	"

SIDEWALKS

Curve St.....	17.56	Cu. Yds.
Lincoln St.....	1.51	"
Norway Rd.....	16.48	"
	<hr/>	
	5,107.93	Cu. Yds.

NEW PLANK CULVERTS

Boutelle Rd.....	1	Odlin Rd.....	1
Dexter St.....	2	Patten St.....	1
Essex St.....	1	Thatcher St.....	1
Fremont St.....	1	Webster Ave. North.....	1
Holland St.....	1	West St.....	1
Mt. Hope Ave.....	2	W. Broadway.....	1
Wing St.....	1		

NEW METAL CULVERTS

30 ft. Corrugated culvert on Fuller Rd.
 48 ft. Corrugated culvert on Finson Rd.
 32 ft. Corrugated culvert on Hersey Ave.
 62 ft. Corrugated culvert on Garland St.
 12 ft. Corrugated culvert on Kossuth St.
 24 ft. Corrugated culvert on Main St.
 52 ft. Corrugated culvert on Lincoln St.
 61 ft. Corrugated culvert on Ohio St.
 30 ft. corrugated culvert on Six Mile Falls Rd.
 27 ft. Cast Iron culvert at corner of Sidney and Rio Sts.
 16 ft. Cast iron culvert on Birch St.
 16 ft. Cast iron culvert on Cooper Rd.
 8 ft. Cast iron culvert on Lincoln St.
 8 ft. Cast iron culvert on George St.

NEW CONCRETE SIDEWALKS

Boutelle Rd., Westerly side.....	326.22	Sq. Yds.
Congress St., Northerly side.....	276.97	"
Congress St., Northerly side.....	55.33	"
Fountain St., Easterly side.....	39.72	"
Leighton St., Easterly side.....	210.33	"
Leighton St., Westerly side.....	266.99	"
Maple St., Easterly side.....	78.94	"
Montgomery St., Southerly side.....	5.00	"
Pine St., Easterly side.....	172.04	"
West Broadway, Southeasterly side.....	255.65	"
	<hr/>	
	1687.19	Sq. Yds.

1,687.19 Sq. Yds. at \$1.00 a Sq. Yd. cost \$1,687.19, of which the abutters paid one-half.

CONCRETE SIDEWALKS RECONSTRUCTED

Boutelle Rd., Westerly side.....	50.00	Sq. Yds.	@	\$1 00
Center St., Easterly side.....	174.67	"	@	1 00
Cumberland St., Southerly side.....	101.13	"	@	1 00
French St., Westerly side.....	74.53	"	@	1 00
Main St., Southeasterly side.....	172.25	"	@	70
Main St., Northwesterly side.....	109.84	"	@	1 00
			<hr/>	
Total cost.....				\$630 74

CONCRETE SIDEWALKS RECOATED

Boutelle Rd., Westerly side.....	15.50	Sq. Yds.	@	60c
Center St., Easterly side.....	175.06	"	@	70c
Congress St., Northerly side.....	59.80	"	@	60c
Congress St., South side.....	66.10	"	@	60c
Cumberland St., Southerly side.....	108.17	"	@	60c

Cumberland St., Northerly side.....	8.22	“	@	60c
Leighton St., Easterly side.....	101.00	“	@	60c
Maple St., Westerly side.....	32.46	“	@	60c
McKinley St., Northerly side.....	243.10	“	@	60c
Second St., Southeasterly side.....	14.08	“	@	60c
West Broadway, Southeasterly side.....	5.08	“	@	60c
				<hr/>
Total cost.....				\$552 80

NEW CONCRETE CROSSWALKS

Across Bowdoin at S. E. side of West Broadway,.....	55.64	Sq. Yds.
Across Linden St. at West side of Leighton St.....	50.51	“
Across Norfolk St. at North side of Congress.....	75.97	“
		<hr/>
	182.12	Sq. Yds.

182.12 Sq. Yds. at \$1.00 a Sq. Yd. cost \$182.12

CONCRETE CROSSWALKS RECONSTRUCTED

Across Second St. near No. 23, 66.11 Sq. Yds. @ \$1.00

GUTTERS PAVED

Second Street Avenue, using 170 paving stones.
State Street, using 100 paving stones.

CLEAN-UP WEEK

The clean-up work was continued this year, the Department furnishing teams and men, covering all streets and hauling much refuse and garbage. Total cost \$276.00.

STREET CLEANING

The streets through the business section were kept clean by a patrol system and the machine sweeper was used to good advantage on Main Street macadam and State Street paving. Total cost of street cleaning and refuse and garbage, \$11,359.81.

CONSTRUCTION OF MAIN AND STATE STREETS

Main Street was constructed from the City Farm to the Tin Bridge, 998 loads of gravel being used. This now completes a continuous stretch of good road from Davis Street to Hampden line.

Main Street from Union Street to May Street has been paved with wood blocks and on State Street from Kenduskeag Bridge to Exchange Street one-half wood and one-half granite paving has been laid.

SPRINKLING

The streets were sprinkled by the Department with hired teams using twelve two-horse sprinklers and two three-horse sprinklers. Several of the streets were given a coat of oil, 6,384 gallons being used. Total cost \$9,815.64.

BRIDGES

The Bangor and Brewer Bridge and Morse's Bridge were kept clean by the Street Department as usual, the machine sweeper being used.

HIRED TEAMS

R. Bell.....	\$937 50
Chas. Bradbury.....	1,225 06
Geo. Carlisle.....	850 00
L. Coffin.....	717 83
Geo. Derby.....	1,434 17
J. F. Green.....	1,720 54
Mike Hughes.....	770 50
Murtagh Hughes.....	1,631 09
Alec McLeod.....	768 00
Chas. Tibbetts.....	677 00
Total.....	\$10,731 69

COST OF DEPUTY STREET COMMISSIONERS

Blaisdell, H. P.....	\$301 46
Chandler, A. J.....	120 52
Cort, Fred.....	479 68
Dysart, E. M.....	67 49
Eveleth, T. C.....	373 38
Fuller, F. R.....	341 63
Hamm, A.....	171 53
Hathorn, Guy.....	49 33
Lewis, E. H.....	111 50
Lewis, H. P.....	261 25
Morrison, C. H.....	7 87
Nelligan, P. J.....	688 73
Robinson, A. H.....	28 45
Sanford, A. G.....	496 09
Sanford, C. C.....	59 00
Savage, A.....	22 56
Smith, E. C.....	121 50
Whitney, P. M.....	58 37
Wilson, H. O.....	386 61
Total.....	\$4,246 95

STATE ROAD

About a mile of new road was started on Hammond Street but owing to cold weather work was held up, at which time it had been 75% completed. Work will be continued this spring.

GRANITE CURBING

Center Street.....	763 feet
Curve Street.....	256 feet
Spring Street.....	56 feet
Forest Avenue.....	68 feet

WINTER WORK

The Winter of 1917-1918 was very severe, snow plows being sent out 38 times and breaking teams 24 times. Many of the back walks had to be shoveled several times the entire length it being impossible to put a plow through. A great deal of snow was hauled from the business section. A heavy fall of snow necessitated the plowing of walks on May 2, 1917. The teams of the Department have used 1258 loads of sand in sanding the walks this winter. Total cost of Snow and Ice Removal \$11,440.61.

During the first part of the winter the Department hauled 303 loads of gravel to different streets, included in this amount is a pile of 79 loads at the old High School lot for use in the spring. P. J. Feeney gave the Department 68 loads of gravel for the hauling, which was taken from his building on Exchange Street and leveled on Cedar Street between Second and Third Streets.

There being so much snow this winter the Department has had little time for any other work except what has been mentioned.

OTHER WORK

Large quantities of cinders have been hauled during the year and used for patching and filling, the department having at present two large piles at the city yard for use in the Spring.

In closing I wish to thank the Mayor, Committee on Streets, City Government, and members of the Street Department for their assistance at all times.

Respectfully submitted,

C. A. WOODBURY,
Street Commissioner.

Report of City Physician

Bangor, Maine, March 31, 1918.

To His Honor, The Mayor, and Gentlemen of the City Council:

I herewith submit the following report as City Physician, from March 17, 1917 to March 31, 1918.

Number of visits to Alms house.....	312
Number of visits outside Alms House.....	106
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Whole number of visits.....	418
Births at Alms House.....	4
Births outside Alms House.....	1
	<hr/>
Whole number of births.....	5
Deaths at Alms House.....	16
Deaths outside Alms House.....	2
	<hr/>
Whole number of deaths.....	18

The work of the City Physician has been about the same as in previous years, while there has been more work in some lines there has been less in others.

Our hospital, at the Alms House, is in excellent condition. Surgical cases for the past year have been few, some being cared for there while others were sent to the Eastern Maine General Hospital and there given the proper attention.

During the winter months, owing to the influx of injured and sick employees of lumbering concerns in Eastern and Northern Maine, our hospital is filled to its capacity. Although the nurse, Superintendent and Matron strain every effort to give their best and greatest services, there is always a need of male attendants for the care of the above mentioned patients. I would like to suggest that the City Council would see its way to have a permanent male attendant for such duties as would fall to one caring for this class of men.

Whereas the office of City Physician alone carries with it a small salary, I would recommend that the offices of Milk Inspector and Board of Health Physician be combined with this office enabling the incumbent to devote more of his time to the services of the City without feeling that his private practice must bring to him compensation sufficient for a fair living.

In concluding my report, I consider it a privilege to express my sincere gratitude to the Overseers of the Poor and Superintendent and Mrs. Klatt for their kind and courteous treatment. Thanks are due the City Missionary who has figured in a most worthy and useful manner in a number of cases, and also the assistant matron and nurses for their kind assistance, which has materially lightened the duties of the physician.

Respectfully submitted,

C. J. TAYLOR
City Physician.



Report of the Water Board



BANGOR WATER BOARD

1918

THE MAYOR, President, *ex-officio*

WILLIAM S. HIGGINS.....Term expires March, 1919
HOSEA B. BUCK.....Term expires March, 1919
FLAVIUS O. BEAL.....Term expires March, 1920
F. PARKER DENACO.....Term expires March, 1920
MILTON S. CLIFFORD.....Term expires March, 1921
ALBERT L. BLANCHARD.....Term expires March, 1921

WALTER I. BROWN, Clerk

STANDING COMMITTEES

ADVISORY COMMITTEE

W. S. Higgins A. L. Blanchard F. O. Beal

AUDITING COMMITTEE

M. S. Clifford A. L. Blanchard H. B. Buck

DAM AND WATER WORKS

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

LAND DAMAGES COMMITTEE

F. P. Denaco F. O. Beal H. B. Buck

OFFICERS

Melville A. SinclairSuperintendent
John W. Dougherty.....Chief Engineer Pumping Station
Walter I. Brown.....Clerk and Collector
Cornelius O'Brien.....Inspector
Thomas V. Campbell.....Inspector
Prof. Jas. M. Caird, Troy, N. Y.....Consulting Chemist
A. C. Powell.....Resident Chemist
Delia G. Mann.....Assistant Water Board Office
Edna B. Pickard.....Assistant Water Board Office
F. Virginia Cluff.....Assistant Supt. Office

BANGOR WATER BOARD

Date of Election and Length of Service of Members, 1875-1915

*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 Now in office
Bernhard M. Kirstein.....	1912-1915
John H. Rice.....	1913-1914
F. Parker Denaco.....	1914 Now in office
Flavius O. Beal.....	1916 Now in office
Hosea B. Buck.....	1916 Now in office

*Deceased

PRESIDENTS OF THE BOARD, *ex-Officiis*

Mayor, *Augustus C. Hamlin.....	1877-1879
“ *William H. 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-

*Deceased

Report of the Water Board

To the City Council of Bangor:

In submitting herewith the 43rd Annual Report of the Bangor Water Board, for the year ending February 28, 1918, together with the reports of the Superintendent, Clerk and Collector, Chemist and Bacteriologist, and Engineer of the pumping-station, the Board believes you will find much of interest in this compilation of facts and figures relative to one of the municipality's most important departments.

You will note by the Superintendent's report that no extensive work was undertaken during the past year because of the high cost of material. Street main extensions for the year totalled 601 feet, as against 5545 feet in the previous season, giving the city $56\frac{1}{2}$ miles of distributive system. One fire hydrant was added, making a total of 326 hydrants now available. There are 42 street watering stand-pipes conveniently located for street sprinkling service.

You will find Prof. Caird's report on the filter plant of exceptional interest. It not only gives valuable data relative to filter conditions and service, but also includes a brief description of the plant. Our endeavor for filter efficiency has not been misdirected, according to Prof. Caird's report which states that the State Board of Health has examined the unfiltered and filtered waters several times during the past year, their results

showing that the filter efficiency here is very high, and the quality of the filtered water desirable for drinking purposes.

Over 7,000 residences, places of business and public buildings were supplied with city water last year, requiring a daily average of 3,982,735 gallons. This average exceeds that of the previous year by 193,177 gallons. The total water pumped during the year was 1,455,698,300 gallons.

Continuing his splendid record for several years past, the Collector again reports all dues paid for the fiscal year. The Department's total credit for the year was \$110,260.18, of which \$96,000 was paid in to the City Treasurer, \$2,360 allowed in credits for water furnished charitable institutions, and \$12,000 credited by municipal appropriation for water furnished the various city departments.

The indicated revenue for plumbers' returns and inspection totalled \$2,714.29—and much credit is due to the faithful work of Inspectors O'Brien and Campbell, that fixtures to the value of \$364.50 were discovered and recorded, which had not previously been reported. It was not necessary to shut off water from any premises during the year because of the non-payment of water dues.

Following the requirements of the Public Utilities Commission, it became necessary to establish new rates, a proper schedule being duly authorized and made effective January 1, 1918. Under the new rate schedule, a rigid inspection was made to establish the number of automatic fire services and sprinkler heads connected therewith; also to ascertain the number of hot water and steam heaters supplied with city water. A convenient booklet containing the new rates, rules and regulations was issued by the Department January 1 for free distribution among patrons of the service.

Through the efforts of the Mayor and the City Auditor at the meeting of the City Council March 12, \$20,000, the final payment of the amount borrowed from the sinking fund, was ordered paid to this Department. On receipt of this amount, \$112,000 was invested in Third Loan U. S. Liberty Bonds, an action which met with the hearty and widespread approval of our citizens.

The Board urges you to read the appended reports carefully, noting particularly the recommendations for future work suggested by the Superintendent and by Prof. Caird.

Respectfully submitted,

JOHN F. WOODMAN
WILLIAM S. HIGGINS
FRANK P. DENACO
ALBERT L. BLANCHARD
MILTON S. CLIFFORD
HOSEA B. BUCK
F. O. BEAL

Report of the Superintendent

To the Bangor Water Board:

GENTLEMEN:

Allow me to submit for your consideration the forty-third annual report of the superintendent for the fiscal year ending February 28, 1918.

STREET MAINS

The unusual high cost of material has prevented any extensive additions or renewals of the distribution system. Those changes found absolutely necessary are listed below:

Street Mains Extended	Feet	Size
Hellier, from Walter north.....	75	2
Jesse, from end of former main to Dayton.....	30	2
Hancock, from East Summer east.....	135	2
Fremont, from end of former main east.....	30	6
Dayton, from Fremont north.....	78	6
Poplar, from Fountain west.....	217	6
Fountain, from Congress north.....	36	6
	601	

240 feet 2 inch

361 feet 6 inch

Total number of miles of main pipe of distribution system
56 2621-5280.

SERVICE PIPES

The following data is the work of the service department for the year:

New	Renewed	Discontinued	Cleaned
26	50	9	105

Total number of services connected with the system to date 5300.

The extreme cold weather has frozen 20 service pipes, but our electric thawing machine has released them without any serious difficulty. As usual, it has been necessary to renew many service boxes.

VALVES

Careful inspection has kept the valves in the usual good condition. The following have been set during the year:

	inches
Hellier and Walter.....	2
Poplar Street, blow-off.....	2
Hancock and East Summer.....	2
Center, opposite Madison (hyd. line).....	4
Fountain and Madison.....	4
Exchange, near Palace Theatre.....	4
Water and Broad.....	4
Mercantile Square and Broad.....	4
Dayton and Fremont.....	6
State, near Exchange (on fire service).....	6
Poplar and Fountain, west.....	6
Fountain and Congress.....	6
Norfolk and Congress.....	6

Boyd and Hancock.....	6
French and Hancock.....	6
Center Street (on fire service at Blake's garage).....	6
Center Street (Blake's (garage, A. P. Smith valve).....	6
State, west of Exchange (Stetson Building, A. P. Smith valve, on fire service).....	8
Total.....	18

GATE VALVE DATA

Dia. in inches	1½	2	4	6	8	12	16	20	24
Number	1	45	155	369	51	16	5	11	1
Total.....									654

FIRE-HYDRANTS

All fire-hydrants are in good condition. Special attention has been given them during the cold period and at all times they have been in working order. One has been added during the year, at the location of Fountain and Congress streets. At present the the total number of hydrants connected with the system is 326.

The Holly pattern of fire-hydrant, which was first installed in our service many years ago, is beginning to show signs of weakness. It is vitally necessary that new hydrants take their places in a short time.

STREET WATERING STAND-PIPES

No changes have been made during the year. The total number still remains 42.

EAST SIDE

Birch and Hancock
 Congress and Center
 Cumberland and Market
 Elm, near school-house
 Fern and State
 Franklin, east side of street
 Grant and Linden
 Hancock and Oak
 Harlow and Curve
 Kenduskeag Ave. and Jefferson
 Newbury and York
 North Park, between Broadway and
 Stillwater Avenue
 Otis and State
 Palm and Garland
 Pine and State
 State, east of Otis
 Somerset and French
 Washington and Hancock

WEST SIDE

Allen and Hammond
 Broad, at Bangor Egg Co.
 Buck and Main
 Cedar and Main
 Cottage, near Ohio
 Cottage and Union
 Court, near Clark
 James and Union
 Main, near R. R. Bridge
 Main, opposite Patten
 Main, near City Farm
 Ohio, near Fourteenth
 Pond and Cedar
 Railroad, near Front
 Royal Road
 Second, near Water Dept. Yard
 Summer and Union
 Third and Cedar
 Third and Lincoln
 Union and Hammond
 Union and Seventeenth
 Warren and Fourth
 West Broadway and Hammond
 Ohio and George

Total 42

LEAKS

Nine leaks have occurred during the year. All were repaired without any serious difficulty.

STAND-PIPE

Aside from the usual annual cleaning, the stand-pipe and superstructure have required no repairs.

DAM AND PIERS

The jam pier, east of the fore-bay, has been rebuilt with tar-treated hemlock timber. Also 150 feet of the sluiceway on the southeast side have been renewed with the same material.

The fishway is in fair condition, but very soon it should be rebuilt with concrete.

DEPARTMENT BUILDINGS

Most of the department buildings are in good condition. It is quite necessary that some painting should be done at the pumping station this summer.

The critical coal shortage of late has made it very evident that a coal shed should be build at the pumping-station which should hold at least a year's supply.

Since the department lot on Second Street has been found unfit in many respects for a new shop, I earnestly recommend that our present building at 25 Court Street be so renovated that it may be adapted to our requirements; it would be well to consider the following changes and additions: New wall, garage, rearrange heating plant, and an elevator.

In closing, let me thank the Mayor, Water Board, Officers of the Board and employees of the Department, for their many courtesies during the year.

Respectfully submitted,

M. A. SINCLAIR,
Superintendent.

Report of the Water Collector

WATER COLLECTOR'S OFFICE
Bangor, March 1, 1918

To the Bangor Water Board:

In compliance with the requirements of the city ordinance, I herewith present the forty-third annual report of the department, showing the receipts, expenditures and refunds for the year ending February 28, 1918.

CASH STATEMENT

On hand February 28, 1917.....	\$ 794 52
Received from general water service, from March 1, 1917 to March 1, 1918.....	96,080 81
Received from water supplied to circus.....	4 00
	<hr/>
	\$96,879 33
Received from sale of cast iron pipe, scrap, etc.....	\$173 13
Received from sale of grass.....	32 00
Received from sale of empty cloth bags.....	33 00
Received from sale of oil barrels	7 50
Received from sale of miscellaneous merchandise.....	156 73
Received from use of transformer.....	17 42
Received from Electro Bleaching Gas Co., refund on steel cylinders.....	520 00

Received from Electric Department, proportional part for heating building at Water Works.....	215 79	
Received from installing automatic fire systems.....	570 77	
Received from use of trench pump.....	1 00	
Received from sale of horse.....	125 00	
Received from Mrs. E. R. Adams, one-half expense, excavating for water service at residence.....	52 10	
Received from repairs on water service.....	8 54	
Received from Eastern Manufacturing Co., for breaking out boom from ice.....	157 75	
Received from sale of alum and lime barrels.....	61 95	
Received from sale of adding machine.....	125 00	
		2,257 68
		\$99,137 01

CONTRA

By paid T. G. Donovan, City Treasurer.....	\$96,000 00	
By paid water customers for vacancies and non-use of fixtures.....	184 63	
Cash on hand.....	2,952 38	
		\$99,137 01

The collector wishes to report that all charges for water rates within the year ending February 28, 1918, have been paid.

CHARGES ON WATER LEDGERS

Amount per schedule ledger, from March 1, 1917 to March 1, 1918.....	\$71,634 86	
Amount per meter ledger.....	22,209 87	
Amount to Charitable Institutions.....	2,360 00	
		\$96,204 73

1918]

CITY OF BANGOR

281

REFUNDS

Water rates to the amount of.....	\$ 184 63	
Which deducted from the receipts for water.....	98,444 81	
	<hr/>	
Which leaves net receipts for water.....		\$98,260 18
 Add the amount appropriated by City Council and credited the department for water furnished the various departments.....		 12,000 00
		<hr/>
		\$110,260 18

CITY OF BANGOR WATER DEPARTMENT

BALANCE SHEET, FEBRUARY 28, 1918

ASSETS

Fixed capital June 30, 1915.....	\$1,478,330 17	
Fixed capital, installed since June 30, 1915.....	29,526 56	
Cash.....	2,952 38	
Contingency fund (City Treasurer).....	4,606 12	
Materials and supplies.....	24,250 67	
Special deposits.....	370 00	
Sinking fund.....	111,648 68	
	<hr/>	
Total assets.....		\$1,651,684 58

LIABILITIES

Bonds	\$500,000 00	
Accounts payable.....	32 36	
Bond interest matured.....	370 00	
Bond interest accrued.....	3,333 34	
Sinking fund reserve	111,648 68	
Depreciation reserve.....	77,719 28	
Surplus	948,461 56	

OPERATING ACCOUNTS

Excess of revenue over expenses January 1, 1918 to February 28, 1918.....	10,119 36
	<hr/>
Total liabilities.....	\$1,651,684 58

TURN-ON AND SHUT-OFF RECORD

Seven hundred and seventy-four (774) orders have been issued for turning on water and removing seals from fixtures.

One thousand and fifty-four (1,054) orders have been issued for shutting off water on account of vacancies and seals applied to fixtures at the request of owners.

NON-PAYMENT OF WATER RATES

It was not necessary to shut off water from any premises for the non-payment of water rates.

The following amounts represent an estimate of the water furnished the City Department:

Incidental Account.....	\$ 921 00
School Department.....	1,610 25
Highway Department.....	1,312 50
Fire Department.....	8,051 50
Pauper Department.....	222 50
Sewer Department.....	400 00
Electric Department.....	62 00
Police Department.....	111 00
Park Department.....	350 00
Water Department.....	117 00

There were 26 new services installed during the past season, and the fixtures connected therewith amount to \$2,714.29 classed as follows:

66 Sinks	9 Soda Fountain Glass Washers
121 Water Closets	9 Carbonators
87 Bath Tubs	7 Stable Faucets for 3 Horses and 4 Cows
130 Wash Bowls	378 Steam Boilers
100 Set Wash Tubs	682 Hot Water Heaters
61 Cellar Faucets	4 Shower Baths
53 Sill Faucets	5 Slop Hoppers
12 Counter Faucets	5 Private Fire-Hydrants
16 Plair. Faucets	18 Private Fire Services with 10,013 sprinkler heads
98 Fire Line Openings	

The Inspectors, Mr. Cornelius O'Brien and Mr. Thomas V. Campbell have reported as having inspected the fixtures at 7047 dwellings and places of business. They were unable to gain admittance at 116 dwellings and business premises.

They have reported fixtures installed to the value of \$364.50 which had not been previously reported.

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

\$2,436,880 11

With the desire to have the most efficient methods for our office requirements, I would respectfully urge and recommend the installing of a cash register which would materially assist in the increasing detail in this Department.

I wish to express my sincere appreciation to the Mayor and Members of the Water Board for the many courtesies extended to myself and the assistants in the office.

Respectfully submitted,

WALTER I. BROWN,
Clerk and Collector.

Report of Engineer of Pumping Station

March 1, 1918

To the Bangor Water Board:—

GENTLEMEN:—Permit me to present the following report:

The amount of water pumped the past year has been as follows:

1917	
March.....	123,844,500
April.....	108,972,000
May.....	111,257,400
June	106,458,000
July.....	116,225,700
August.....	116,580,300
September.....	112,908,300
October.....	112,997,200
November.....	108,757,600
December.....	134,147,300
1918	
January.....	158,100,500
February.....	145,449,500
	1,455,698,300

This is a daily average of 3,982,735 gallons.

The steam pump was run ten days in April while new bushings and plungers were being put in the Dean power pump. One of the plungers proved to be defective so we put the old one back in the pump while another was being made. As the pumps were working quite hard when it was received we decided not to put it in until spring. The steam-pump was also run one day in July, one in November while the Electric Department were repairing water wheels, one day in December while the flume was being cleaned and one in January.

The pumps were worked harder this winter than ever before. there being several days they were worked close to capacity.

In closing I wish to thank the Water Board, Officers and employees for their many courtesies shown during the year.

Respectfully submitted,

JOHN W. DOUGHERTY,
Chief Engineer.

Report of The Chemist and Bacteriologist

Troy, N. Y., March 8th, 1918.

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 February 28th, 1918.

The plant is in charge of Mr. A. C. Powell, resident chemist and bacteriologist.

In order to understand the results a short description of the plant is not out of place.

The water supply of Bangor is obtained from the Penobscot River, this being the source of supply since the original pumps were installed in 1876.

The Penobscot River has a drainage area of about 7,700 square miles above the water works intake. The water is always highly colored, carries very little turbidity but is somewhat polluted, due to sewage from several localities, waste from the pulp mills and drainage from several farms.

In January, 1897, a Warren Type Gravity Filter Plant was placed in operation, this plant was operated without any coagulant until 1905.

In 1908 the coagulation basin was completed and placed in operation. This basin is in use at the present time in connection with the modern filter plant.

The new modern concrete gravity filter plant was placed in operation Feb. 6th, 1911, and consists of six filter units. In 1912, the plant was increased in capacity 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.

The minimum capacity of this plant is eight million gallons per day, but this rate can be greatly exceeded for short periods.

The sand in the filters has an effective size of .55 to .59 mm. and a uniformity co-efficient of 1.25 to 1.74.

No trouble has been experienced in the operation of this plant since it was placed in operation.

At times of extreme cold weather ice has formed in the rear of the filter beds, under the concrete deck, but this has been overcome by reducing the "head" of the water on the sand beds, so that air may freely circulate 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 16 to 24 hours between washings.

Table Showing Water Filtered, Bangor, Maine

Year	Filtered	
1909-10	1,392,824,000 gallons	
1910-11	1,453,981,000	4.3% inc.
1911-12	1,507,773,000	3.7% "
1912-13	1,443,578,000	4.1% dec.
1913-14	1,505,350,000	4.3% inc.
1914-15	1,443,800,000	4.1% dec.
1915-16	1,359,590,000	5.8% "
1916-17	1,399,647,000	2.9% inc.
1917-18	1,482,910,000	5.9% "

The average amount of water treated during the past year was about 4,062,800 gallons per day.

Table Showing Waste Water, Bangor, Me.

Year	Waste	Percent
1909-10	139,960,000 gallons	10.0%
1910-11	116,256,000 "	7.9%
1911-12	47,073,000 "	3.1%
1912-13	55,848,000 "	3.9%
1913-14	98,563,000 "	6.5%
1914-15	92,798,000 "	6.4%
1915-16	87,938,000 "	6.4%
1916-17	96,299,000 "	6.9%
1917-18	83,814,000 "	5.6%

The waste water includes the water used for washing the filters and also that discharged from the coagulation basins when they are being cleaned. The coagulation basins have a capacity of 1½ million gallons and are cleaned several times each year.

It is to be noted that since the new filtration 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.

Table Showing Water Delivered to Consumers, Bangor, Maine

Year	Delivered	
1909-10	1,252,864,000 gallons	6.7% inc.
1910-11	1,337,725,000 "	6.7% "
1911-12	1,492,563,000 "	11.5% "
1912-13	1,387,730,000 "	7.1% dec.
1913-14	1,451,986,000 "	4.6% inc.
1914-15	1,394,427,000 "	4.0% dec.
1915-16	1,302,366,000 "	6.6% "
1916-17	1,384,075,000 "	6.2% inc.
1917-18	1,466,253,000 "	5.9% "

The average amount of water delivered was 4,020,000 gallons per day or a per capita consumption of about 160 gallons.

During the year 4,852 filters were washed, an average of 13.3 per day. This is an increase of 10.8% in the number of filter washings.

The average amount of water used in washing one filter was about 17,000 gallons, the filter being out of service about 10 minutes for each wash.

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 cover a period of two years (1909-11) with the old filters and seven years with the new filters.

Table Showing Bacterial Removal, Bangor, Me.

Year	Basins	Filters	Total	Mains	Raw to Tap
1909-10	62.21%	57.47%	85.63%	29.50%	89.86%
1910-11a	79.00%	53.40%	90.28%	00.84%	90.71%
1911-12	82.66%	88.25%	97.79%	19.41%	98.67%
1912-13	86.09%	91.24%	98.79%	18.75%	99.01%
1913-14b	88.14%	88.96%	98.67%	12.50%	98.86%
1914-15c	87.81%	88.68%	98.62%	12.20%	98.79%
1915-16d	89.39%	88.78%	98.81%	12.23%	98.95%
1916-17e f	85.85%	89.88%	98.57%	11.91%	98.77%
1917-18f	80.75%	91.88%	98.44%	5.70%*	98.35%
Avg. 9 yrs.	83.16%	82.06%	96.18%	14.72%	96.89%

a	Calcium hypo-chlorite used 3 months during	1910-11
b	" " " " 2 " "	1913-14
c	" " " " 4 " "	1914-15
d	" " " " 6 " "	1915-16
e	" " " " 2 " "	1916-17
f	Liquid chlorine " 5 " "	1916-17
f	" " " 11 " "	1917-18

When calcium hypo-chlorite was used, it was applied to the water before it entered the coagulation basin, the average amount used being about 14 pounds per million gallons.

During the year 1917 a Liquid Chlorine Machine was installed this solution is applied to the water after it has passed the coagulation basin and just before filtration. The liquid chlorine is applied at the rate of about 2.7 pounds per million gallons of water.

Gelatin media is used in determining the bacterial content of the water, the incubation period being 48 hours at 20° C.

Since the new filters were placed in operation, there has been an improvement in the bacterial removal of the plant.

The State Board of Health has examined the unfiltered and filtered waters several times during the past year, their results show that the filter efficiency is very high and that the quality of the filtered water is desirable for drinking purposes.

The water is examined at least twice a day in the laboratory of the Water Board, the results obtained compare with the results obtained by the State Board of Health.

It is to be noted that during the past nine years an average of 14.72% of the bacteria passing the plant die in passing through about 1½ miles of the mains.

The plant is also efficient in removing the "intestinal bacillus" *B. Coli-communis*.

Table Showing Removal of B. Coli-communis, Bangor, Me.

Year	Basin and Filters	Mains	Raw to Tap
1909-10.....	88.23%	79.02%	97.53%
1910-11.....	89.42%	56.37%	95.38%
1911-12.....	97.63%	77.52%	99.47%
1912-13.....	98.97%	98.89%	99.90%
1913-14.....	98.71%	77.88%	99.72%
1914-15.....	87.86%	85.11%	99.68%
1915-16.....	99.35%	100.00%	100.00%
1916-17.....	98.34%	93.67%	99.90%
1917-18.....	98.41%	78.58%	99.66%
Avg. 9 yrs.....	95.21%	83.00%	99.03%

There has been a great improvement in the removal of the B. Coli-communis since the introduction of the new filters and the use of the sterilizing reagents.

During the past year 1059 samples of 1 c. c. each of the city tap water were examined for B. Coli-communis, only three gave positive 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.

Table Showing COLOR, in parts per million,
Unfiltered Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	145.0	45.0	71.0
1910-11.....	80.0	45.0	55.7
1911-12.....	88.0	45.0	56.0
1912-13.....	135.0	45.0	66.0
1913-14.....	120.0	45.0	59.7
1914-15.....	68.0	38.0	52.4
1915-16.....	110.0	33.0	54.5
1916-17.....	100.0	35.0	57.3
1917-18.....	100.0	50.0	66.8
Avg. 9 yrs.....	105.1	42.3	59.9

The average color of the unfiltered water was 16.6% higher than during the previous year. The maximum color was the same and the minimum 30.0% higher than during the previous year.

Table Showing Range in COLOR, in parts per
million, Unfiltered Water, Bangor, Me.

Color in parts per million	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0-40	0	25	34	34	0	23
41-50	102	98	103	75	22	75
51-60	131	224	158	161	113	164
61-70	69	17	54	48	142	63
Over 70	63	0	17	47	88	38

During the past year the color of the unfiltered water was above 50 parts per million on 343 days or 94.1% of the time.

Table Showing TURBIDITY, in parts per million,
Unfiltered Water, Bangor, Maine

Year	Maximum	Minimum	Average
1909-10.....	50.0	0.0	2.39
1910-11.....	40.0	0.0	.37
1911-12.....	19.0	0.0	.68
1912-13.....	20.0	0.0	.89
1913-14.....	15.0	0.0	.44
1914-15.....	25.0	0.0	.54
1915-16.....	15.0	0.0	.20
1916-17.....	15.0	0.0	.12
1917-18.....	30.0	0.0	.40
Avg. 9 yrs.....	25.4	0.0	.67

The maximum turbidity in the unfiltered water has never been above 50 parts per million during the past nine years. A small amount of turbidity in the unfiltered water is a great help in the operation of the filters.

Table Showing Range in TURBIDITY, in parts per million,
Unfiltered water, Bangor, Maine

Turbidity parts per million	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0-0	273	336	352	358	350	349
1-10	106	24	12	6	12	13
11-25	3	4	2	1	2	2
Over 25	1	0	0	0	1	1

During the past year the unfiltered water was free from turbidity on 350 days or 96.0% of the time.

Table Showing ALKALINITY, in parts per million,
Unfiltered Water, Bangor, Maine

Year	Maximum	Minimum	Average
1909-10.....	14.0	4.0	8.8
1910-11.....	17.0	8.0	11.4
1911-12.....	21.0	6.0	12.5
1912-13.....	15.0	7.0	11.3
1913-14.....	15.0	8.0	10.9
1914-15.....	15.0	7.0	11.6
1915-16.....	13.0	7.0	11.1
1916-17.....	15.0	8.0	11.8
1917-18.....	15.0	7.0	11.7
Avg. 9 yrs.....	15.5	6.9	11.2

The average alkalinity of the unfiltered water was about the same as during the previous year.

Table Showing Range of ALKALINITY, per c. c.
Unfiltered Water, Bangor, Me.

Alkalinity parts per million	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0- 5	1	0	0	0	0	0
6-10	176	99	88	84	106	94
11-15	179	265	278	281	259	253
Over 15	8	0	0	0	0	0

During the past year the alkalinity of the unfiltered water was below 16 parts per million during the entire time, in fact the alkalinity has not been above 15 parts per million during the past six years.

Table Showing BACTERIA, per c. c., Unfiltered Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	15,750	86	1,725
1910-11.....	6,050	150	2,542
1911-12.....	11,600	1,400	3,286
1912-13.....	7,800	1,000	2,624
1913-14.....	11,000	1,000	3,051
1914-15.....	9,600	1,500	2,968
1915-16.....	9,200	700	2,753
1916-17.....	8,800	1,400	2,927
1917-18.....	5,600	900	2,239
Avg. 9 yrs.....	9,489	904	2,679

The maximum number of bacteria per c. c. in the unfiltered water was 36.4% less and the average 3.5% less than during the previous year.

Table Showing Range of BACTERIA, per c. c., Unfiltered Water, Bangor, Me.

Bacteria per c. c.	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0- 500	30	0	0	0	0	0
501- 1000	16	0	7	0	2	2
1001- 2500	157	171	167	159	270	192
2501- 5000	139	169	179	194	89	158
5001-10000	17	23	13	12	3	13
Over 10000	3	0	0	0	0	0

During the past year the bacteria per c. c. in the unfiltered water was above 5,000 on 3 days or .8% of the time.

During the past four years the bacteria in the unfiltered water has never been below 500 per c. c.

During the past seven years the B. Coli-communis content of the unfiltered water has remained about constant.

Table Showing Tests for B. COLI-COMMUNIS, 1 c. c. Samples, Unfiltered Water, Bangor, Me.

Year	Samples examined	Positive	Percent positive
1909-10.....	1042	644	61.9%
1910-11.....	1041	795	76.4%
1911-12.....	1045	921	88.1%
1912-13.....	1002	862	86.0%
1913-14.....	1056	921	87.2%
1914-15.....	1062	930	87.5%
1915-16.....	1062	905	85.2%
1916-17.....	1056	900	85.2%
1917-18.....	1059	877	82.8%
Avg. 9 yrs.....	1047	862	82.3%

A mineral analysis of the unfiltered water is made every month, the results show very little change from year to year.

A complete sanitary examination of the unfiltered water is made twice each month, the results, will be found in the following table.

Compared with the previous year the results show an increase in free ammonia and a decrease in nitrates and albuminoid ammonia.

There was no change in the required oxygen, or total solids.

Mineral Analysis of Raw Water

Date	Total Solids	Loss on Ignition	Mineral Residue	Silicon	Aluminum	Calcium	Magnesium	Sulphates	Iron
1917									
March	73	47	26	1.60	.60	8.08	1.29	4.22	.20
April	62	39	23	1.98	1.02	5.50	1.24	5.37	.20
May	49	35	14	1.70	.48	3.72	.52	5.62	.15
June	58	41	17	1.51	1.29	4.58	.55	3.73	.20
July	65	39	26	1.98	1.03	3.29	1.38	5.62	.25
August	82	54	28	1.98	1.02	6.00	.35	5.95	.20
September	74	49	25	2.26	1.39	5.65	.90	6.69	.20
October	80	53	27	1.23	1.51	6.08	2.03	4.72	.25
November	78	56	22	4.19	1.58	5.36	.46	8.75	.30
December	75	51	24	1.65	.78	7.15	1.81	4.63	.30
1918									
January	81	58	23	1.84	.61	7.22	1.31	5.70	.25
February	88	61	27	1.79	.99	7.79	.57	5.95	.30
Avg.	72.08	48.57	23.51	1.98	1.03	5.87	1.03	5.58	.23
1909-10	52.91	30.25	22.66	2.11	.71	4.61	1.72	3.41	.53
1910-11	65.66	41.25	24.33	2.17	1.32	5.49	2.80	6.61	.21
1911-12	68.33	45.08	23.25	1.89	.96	6.37	2.56	8.44	.17
1912-13	62.50	42.33	20.17	1.77	1.07	5.45	2.65	9.26	.16
1913-14	62.60	40.00	22.60	1.59	1.20	5.83	2.41	6.50	.13
1914-15	63.91	40.16	23.75	1.67	.87	5.93	1.75	5.87	.14
1915-16	69.16	46.50	22.66	1.90	.82	6.09	1.79	5.69	.13
1916-17	73.83	50.16	23.67	1.77	.91	5.84	1.18	5.34	.19
1917-18	72.08	48.57	23.51	1.98	1.03	5.87	1.03	5.50	.23

The unfiltered water is pumped to a two compartment coagulation basin which has a total capacity of 1,500,000 gallons.

Before the water enters the basins, the coagulant, sulphate of alumina and lime are added. Owing to the low alkalinity of the unfiltered water it is necessary to add lime at all times.

When calcium hypo-chlorite was used, it was applied to the water before it entered the coagulation basins.

The sulphate of alumina is purchased under specifications, the requirements follow:

"Alumina (Al_2O_3) not less than 17.50%; Acid (SO_3) not more than 37.5%; Iron (Fe_2O_3) not more than .40%; Insoluble not more than .25%; Water (H_2O) not more than 47.0%."

It is understood that if the Aluminum (Al_2O_3) is over 17.5% the Acid (SO_3) may be increased in the proper proportion.

If the results of the analyses show the Aluminum to be below 17.5% and above 17.0% a deduction of eight cents per hundred pounds is made. If the Aluminum is below 17% and above 16.5% a deduction of fifteen cents per hundred pounds is made.

For each .25% or fraction thereof of iron calculated as Fe_2O_3 above .40% a reduction of five cents per hundred pounds shall be made.

The sulphate of alumina shall contain no free acid.

Table Showing the Average Composition of the Sulphate of Alumina Used, Bangor, Me.

Year	Alumina	Iron	Acid	Water	Insoluble
1909-10.....	16.96%	1.98%	39.50%	41.13%	.10%
1910-11.....	18.18%	.82%	39.30%	41.06%	.09%
1911-12.....	17.75%	.32%	40.19%	41.36%	.16%
1912-13.....	18.49%	.37%	40.83%	40.97%	.10%
1913-14.....	17.82%	.37%	40.40%	41.32%	.09%
1914-15.....	17.80%	.34%	40.03%	41.74%	.08%
1915-16.....	17.58%	.27%	39.63%	42.42%	.09%
1916-17.....	17.58%	.30%	39.91%	42.08%	.12%
1917-18.....	17.61%	.39%	39.31%	42.56%	.12%
Avg. 9 yrs.....	17.65%	.59%	39.90%	41.63%	.11%

Since the sulphate of alumina has been purchased by specifications the composition has been more uniform and the salt has contained a high amount of alumina and a small amount of iron.

Commencing in 1910 the sulphate of alumina has been obtained from the Pennsylvania Salt Mfg. Co., Philadelphia, Penn.

Table Showing Average Amount of Sulphate of Alumina, Lime, Calcium Hypo-chlorite and Liquid Chlorine Used, in grains per gallon, Bangor, Me.

Year	Alumina	Lime	Hypo- Chlorine	
1909-10.....	1.87	.31		
1910-11.....	1.43	.23	.14	
1911-12.....	2.03	.17		
1912-13.....	2.05	.14		
1913-14.....	1.95	.18	.10	
1914-15.....	1.92	.18	.09	
1915-16.....	1.92	.15	.11	
1916-17.....	1.91	.19	.09	.02
1917-18.....	1.91	.31	.00	.02
Avg.....	1.85	.21	.10	.02

The sterilizing reagents are only used a portion of the time each year.

The average amount of sulphate of alumina used was the same as during the previous year.

The average amount of lime used was 63.1% greater than during the previous year. The lime was increased in the hopes that it would reduce the iron and free carbonic acid content of the water and thereby reduce the growth of *Crenothrix* in the mains.

The growth of *Crenothrix* in the mains is causing serious trouble with service pipes and at times makes the water look very unsightly.

The use of the additional amount of lime "sets" the color in the water, therefore the color removal is not as high as previously.

The lime also increases the alkalinity in the filtered water.

Up to the present time this method of operation has not been successful in preventing the *Crenothrix* growths.

The coagulation basins are of great value to this plant as they remove a large number of bacteria. During the past nine years the basins have removed an average of 63.16% of the bacteria.

In 1911 mixing baffles were installed in the coagulation basins, these baffles increased the efficiency of the basins. Additional baffles should be installed within the basins so that the water would have a longer period of detention.

Table Showing BACTERIA, per c. c. in Water After Passing the Coagulation Basins, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	3,700	4	583
1910-11.....	3,100	75	515
1911-12.....	5,000	185	570
1912-13.....	1,300	100	365
1913-14.....	1,400	100	362
1914-15.....	820	110	362
1915-16.....	1,030	50	294
1916-17.....	1,240	80	415
1917-18.....	1,250	180	431
Avg. 9 yrs.....	2,316	98	433

The average number of bacteria per c. c. passing the basins was 3.8% higher than during the previous year.

Table Showing Range of BACTERIA, per c. c. Coagulated Water, Bangor, Me.

Bacteria per c. c.	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0- 100	25	0	9	1	0	2
101- 250	88	77	145	55	25	76
251- 500	148	229	190	224	245	222
501-1000	76	57	21	80	95	63
Over 1000	25	0	1	5	1	2

During the past year the water passing the basins contained less than 501 bacteria per c. c. on 270 days or 74.1% of the time.

The new filter plant still continues to produce satisfactory water and has given no trouble in its operation.

A mineral analyses of the filtered water is made every month, the results will be found in the following table.

During the past year the iron content of the filtered water was .18 parts per million an increase of 28.5% over the proceeding year. The iron content of the unfiltered water was 21.1% higher than during the previous year.

The plant removed 21.7% of the iron but owing to the large amount of organic matter in the untreated water it is hard to obtain a high iron removal.

The coagulation basins are covered, therefore it is impossible to aerate the water.

Aeration would no doubt help remove the iron as well as the free carbonic acid gas.

A sanitary examination of the filtered water is made twice every month, the results will be found in the following table.

The results show an increase in free ammonia, required oxygen and iron and a decrease in albuminoid ammonia and nitrates.

A study of the results, in detail, will show the great improvement in the quality of the filtered water since the installation of the new filters.

Table Showing ALKALINITY, in parts per million, Filtered Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	7.0	1.0	3.1
1910-11.....	12.0	3.0	4.6
1911-12.....	9.0	3.0	4.1
1912-13.....	5.0	3.0	3.5
1913-14.....	5.0	3.0	3.7
1914-15.....	6.0	3.0	4.5
1915-16.....	7.0	3.0	4.8
1916-17.....	7.0	3.0	4.8
1917-18.....	8.0	4.0	5.3
Avg. 9 yrs.....	7.4	2.9	4.3

The average alkalinity was 10.4% higher than during the previous year and it is the intention to carry the alkalinity of the filtered water above 4 parts per million at all times.

In order to maintain any alkalinity in the filtered water it was necessary to add lime during the entire year.

When using lime the color is "set" in the water and it is impossible to obtain a high color removal.

Table Showing Range in ALKALINITY, in parts per million, Filtered Water, Bangor, Me.

Alkalinity parts per million	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0-5	342	359	331	304	228	306
6-10	21	6	35	61	137	59
Over 10	1	0	0	0	0	0

The alkalinity of the filtered water was below 6 parts per million on 228 days or 62.4% of the time. During the past year the alkalinity of the filtered water was never below 4 parts per million.

Table Showing TURBIDITY, in parts per million, Filtered Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	6.0	0.0	1.01
1910-11.....	1.0	0.0	.29
1911-12.....	1.0	0.0	.03
1912-13.....	0.0	0.0	.00
1913-14.....	0.0	0.0	.00
1914-15.....	0.0	0.0	.00
1915-16.....	0.0	0.0	.00
1916-17.....	0.0	0.0	.00
1917-18.....	0.0	0.0	.00
Avg. 9 yrs.....	0.9	0.0	.15

The turbidity in the filtered water was due to aluminum hydrate passing the coarse sand in the old filters.

Several times during the past six years, there has been a slight turbidity in the filtered water, due to aluminum hydrate, this was caused by operating the filters too long between washings or to "air binding" breaking the beds.

Table Showing Range in TURBIDITY, in parts per million, Filtered Water, Bangor, Me.

Turbidity parts per million	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0-0	301	365	365	365	365	365
1-5	63	0	0	0	0	0
Over 5	1	0	0	0	0	0

During the past six years the filtered water has never contained more than the slightest trace of turbidity.

Table Showing COLOR, in parts per million, Filtered Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	70.0	4.0	32.0
1910-11.....	53.0	5.0	20.0
1911-12.....	31.0	1.0	7.3
1912-13.....	15.0	4.0	7.2
1913-14.....	17.0	4.0	6.4
1914-15.....	12.0	3.0	7.4
1915-16.....	12.0	2.0	5.1
1916-17.....	29.0	2.0	11.0
1917-18.....	25.0	6.0	14.3
Avg. 9 yrs.....	29.3	3.4	12.3

The effect of increasing the alkalinity of the filtered water is shown upon the color, during the past year the average alkalinity was increased $\frac{1}{2}$ grain per gallon which increased the average color of the filtered water 30%.

Table Showing Range in COLOR, in parts per million, Filtered Water, Bangor, Me.

Color in parts per million	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0-20	280	365	365	345	358	358
21-30	42	0	0	20	7	7
31-40	22	0	0	0	0	0
Over 40	20	0	0	0	0	0

During the past year the color of the filtered water was below 21 parts per million on 358 days or 98.1% of the time.

Table Showing BACTERIA, per c. c. Filtered Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	3,600	2	248
1910-11.....	1,500	10	248
1911-12.....	390	18	67
1912-13.....	120	10	32
1913-14.....	125	5	40
1914-15.....	101	7	41
1915-16.....	112	3	33
1916-17.....	96	5	42
1917-18.....	90	6	35
Avg. 9 yrs.....	682	7	87

During the past year the maximum number of bacteria in the filtered water was 90 per c. c. while the average was 35 per c. c.

The average number of bacteria in the filtered water during the past nine years was 87, while the average since the new filters were placed in operation is 42 per c. c.

Table Showing Range in BACTERIA, per c. c., Filtered Water, Bangor, Me.

Bacteria per c. c.	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0- 25	87	75	143	61	99	95
26- 50	110	197	174	208	206	196
51- 75	44	64	39	79	46	57
76-100	18	27	9	17	13	.16
101-250	52	1	2	0	0	1
Over 250	50	0	0	0	0	0

The bacteria in the filtered water were below 51 per c. c. on 305 days or 83.6% of the time and below 26 per c. c. on 99 days or 27.1% of the time.

Table Showing Tests for B. COLI-COMMUNIS, 1 c. c. Samples Filtered Water, Bangor, Me.

Year	Samples examined	Positive	Percent positive
1909-10.....	1042	76	7.29%
1910-11.....	1050	85	8.09%
1911-12.....	1051	22	2.09%
1912-13.....	1005	9	.89%
1913-14.....	1056	12	1.13%
1914-15.....	1062	20	1.88%
1915-16.....	1062	6	.56%
1916-17.....	1056	15	1.42%
1917-18.....	1059	14	1.32%
Avg. 9 yrs.....	1049	29	2.67%

Mineral Analysis of Filtered Water

Date	Total Solids	Loss on Ignition	Mineral Residue	Silicon	Aluminum	Calcium	Magnesium	Sulphates	Iron
1917									
March	73	39	34	1.09	.79	9.36	1.00	21.09	.15
April	59	26	33	1.37	1.16	6.86	1.14	20.51	.15
May	53	28	25	1.18	.62	6.29	.42	17.72	.10
June	69	42	27	1.03	1.43	5.65	.46	17.80	.15
July	66	31	35	1.41	.81	8.50	1.33	20.35	.20
August	86	48	38	1.09	1.01	7.58	.33	20.84	.15
September	75	42	33	1.46	1.06	9.22	.57	23.40	.15
October	87	50	37	1.13	1.61	6.72	1.94	20.02	.20
November	66	33	33	1.13	1.45	6.15	.39	22.00	.20
December	78	45	33	1.51	.87	7.79	1.53	21.92	.25
1918									
January	74	37	37	1.37	.76	8.58	1.18	18.71	.20
February	81	45	36	1.60	.87	8.58	.57	21.91	.25
Avg.	72.25	38.83	33.42	1.28	1.04	7.61	.91	20.52	.18
1909-10	57.91	24.66	32.83	1.82	2.66	6.21	1.98	18.93	.25
1910-11	69.25	40.83	28.41	1.82	2.27	6.15	2.27	19.46	.16
1911-12	69.16	35.83	33.33	1.69	.96	7.64	3.50	26.93	.10
1912-13	63.25	31.25	32.00	1.38	1.30	6.48	2.40	25.97	.10
1913-14	61.50	29.20	32.30	1.25	1.27	7.75	2.05	22.93	.08
1914-15	65.66	32.41	33.25	1.24	.84	7.10	1.44	21.81	.09
1915-16	62.91	32.50	30.41	1.40	.87	7.09	1.47	21.66	.08
1916-17	70.66	38.00	32.66	1.35	.94	7.04	1.03	20.50	.14
1917-18	72.25	38.83	33.42	1.28	1.04	7.61	.91	20.52	.18

During the past year 1,056 samples of 1 c. c. each of the filtered water were examined for B. Coli-communis only 15 or 1.32% gave positive results.

The basins and filters removed 98.41% of the B. Coli-communis while the general bacterial removal was 98.44%.

A sample of city tap water obtained about 1½ miles from the filter plant is examined every day.

A mineral analyses of the city tap water is made once each month while twice each month a complete sanitary analyses is made.

The results of these examination will be found in the following tables.

The results of the mineral analyses show about the same composition as obtained at the filter plant.

The results show that there is a slight reduction in free ammonia, albuminoid ammonia and required oxygen when compared with the results of the sanitary examinations or the filtered water at the plant.

Table Showing TURBIDITY, in parts per million, Tap Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	5.0	0.0	0.15
1910-11.....	1.0	0.0	0.00*
1911-12.....	0.0	0.0	0.00
1912-13.....	0.0	0.0	0.00
1913-14.....	0.0	0.0	0.00
1914-15.....	0.0	0.0	0.00
1915-16.....	0.0	0.0	0.00
1916-17.....	0.0	0.0	0.00
1917-18.....	0.0	0.0	0.00
Avg. 9 yrs.....	0.7	0.0	0.02

During the past seven years the city tap water has been free from turbidity.

Table Showing Range in TURBIDITY, in parts per million, Tap Water, Bangor, Me.

Turbidity parts per million	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0-0	341	365	365	365	365	365
1-5	23	0	0	0	0	0
Over 5	0	0	0	0	0	0

Since the new filters have been in operation the tap water has been free from turbidity.

Table Showing COLOR, in parts per million, Tap Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	100.0*	4	35.0
1910-11.....	50.0	9	21.0
1911-12.....	22.0	3	7.3
1912-13.....	22.0	4	7.5
1913-14.....	15.0	4	6.6
1914-15.....	14.0	3	7.5
1915-16.....	14.0	2	5.4
1916-17.....	30.0	2	11.1
1917-18.....	25.0	6	14.2
Avg. 9 yrs.....	32.4	4.1	12.8

*High color due to flushing mains.

Table Showing Range in COLOR, in parts per million, Tap Water, Bangor, Me.

Color in parts per million	Avg. 5 yrs 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0-20	275	365	366	343	362	359
21-30	40	0	0	22	3	6
31-40	27	0	0	0	0	0
Over 40	23	0	0	0	0	0

During the past year the color of the tap water was below 20 parts per million on 362 days or 99.3% of the time.

The color of the tap water was not above 25 parts per million during the year.

Table Showing BACTERIA, per c. c., Tap Water, Bangor, Me.

Year	Maximum	Minimum	Average
1909-10.....	1,970	1	175
1910-11.....	1,400	10	238
1911-12.....	500	10	54
1912-13.....	100	6	26
1913-14.....	110	4	35
1914-15.....	90	4	36
1915-16.....	106	2	29
1916-17.....	90	4	36
1918-19.....	92	4	37
Avg. 9 yrs.....	495	5	74

The average number of bacteria in the tap water was about the same as during the previous year.

The average number of bacteria in the tap water during the past nine years was 74 per c. c.

During the past seven years, since the new filters have been in operation, the average number of bacteria in the tap water has been 36 per c. c.

Table Showing Range in BACTERIA, per c. c., Tap Water, Bangor, Me.

Bacteria per c. c.	Avg. 5 yrs. 1909-14	Year 1914-15 Days	Year 1915-16 Days	Year 1916-17 Days	Year 1917-18 Days	Avg. 4 yrs. 1914-18
0- 25	116	94	174	91	91	113
26- 50	108	209	155	213	215	198
51- 75	21	44	33	45	45	42
76-100	22	16	4	16	13	9
Over 101	98	0	1	0	0	0

Mineral Analysis of Tap Water

Date	Total Solids	Loss on Ignition	Mineral Residue	Silicon	Aluminum	Calcium	Magnesium	Sulphates	Iron
1917									
March	78	43	35	1.37	.85	9.22	1.16	21.42	.15
April	61	29	32	1.46	1.11	6.72	.74	20.02	.15
May	56	30	26	1.37	.62	5.58	.50	17.14	.10
June	66	39	27	.94	1.33	6.72	.50	17.39	.15
July	62	28	34	1.37	1.02	8.15	1.18	21.92	.20
August	91	53	38	.94	1.06	8.58	.37	19.94	.15
September	75	40	35	1.37	1.00	8.00	.63	21.34	.15
October	90	52	38	1.04	1.50	7.65	1.81	19.61	.20
November	65	33	32	1.22	1.55	6.72	.44	21.67	.20
December	78	44	34	1.09	.98	7.50	1.75	20.19	.25
1918									
January	73	36	37	1.79	.76	8.29	1.07	21.42	.20
February	83	48	35	1.46	1.03	8.50	.48	20.76	.25
Avg.	73.16	39.58	33.58	1.29	1.07	7.64	.89	20.24	.18
1909-10	57.91	24.66	32.83	1.82	2.66	6.21	1.98	18.93	.25
1910-11	69.25	40.83	28.41	1.82	2.27	6.15	2.27	19.46	.16
1911-12	69.16	35.83	33.33	1.69	.96	7.64	3.50	26.93	.10
1912-13	63.25	31.25	32.00	1.38	1.30	6.48	2.40	25.97	.10
1913-14	61.50	29.20	32.30	1.25	1.27	7.75	2.05	22.93	.08
1914-15	65.66	32.41	33.25	1.24	.84	7.10	1.44	21.81	.09
1915-16	62.91	32.50	30.41	1.40	.87	7.09	1.47	21.66	.08
1916-17	70.33	37.75	32.58	1.31	.92	6.95	1.05	20.43	.14
1917-18	73.16	39.58	33.58	1.29	1.07	7.64	.89	20.24	.18

During the past year the bacteria in the tap water were below 51 per c. c. on 306 days or 84.0% of the time.

In passing through the mains from the filter plant to the city tap, there is a decrease in the bacterial content of the water, the average decrease during the past nine years was 14.72%.

Table Showing Tests for B. COLI-COMMUNIS, 1 c. c. Samples, Tap Water, Bangor, Me.

Year	Samples examined	Positive	Percent positive
1909-10.....	1040	16	1.53%
1910-11.....	1047	37	3.53%
1911-12.....	1048	5	.47%
1912-13.....	1005	1	.09%
1913-14.....	1066	3	.28%
1914-15.....	1062	3	.28%
1915-16.....	1062	0	.00%
1916-17.....	1053	1	.09%
1917-18.....	1059	3	.28%
Avg. 9 yrs.....	1049	8	.76%

During the past year 1,059 samples of 1 c. c. each to the city tap water were examined for B. Coli-communis, only three or .28% gave positive results.

The results show that the general bacteria decrease about 15% in passing through the mains from the filter plant to the city tap while the average decrease in B. Coli-communis during the past nine years is 83.0%.

With the present very high price of labor and materials it is not advisable to do any construction work unless the same is absolutely necessary.

During the year it might be well to consider the following which will improve conditions in the future:

Placing meters on the discharge lines from the pumps.

Removal of concrete top from coagulation basin and construction of a house to provide light and air to the water.

Location and size for new stand pipe.

The installation of a heating plant for the filtration plant.

Moving chief engineer's house across the street and building a railroad siding and coal shed, so that it would be possible to deliver supplies from the cars directly at the plant.

A very close inspection of the timber in the flume should be made and repaired if necessary, plans should also be made to replace portions of this flume with masonry work.

The general condition of the entire works is very satisfactory.

Permit me in closing to express my appreciation of the interest taken by all the members of the Board in all matters which have been called to their attention and to also express my appreciation of the many courtesies extended by all of the employees.

Respectfully submitted,

JAMES M. CAIRD.

Location of Fire Hydrants and Nominal Pressure

("M" Matthews, made by R. D. Wood & Co.)

("H" Holly, made by Holly Mfg. Company)

	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
At the Works, State Street.....	120	H
Barker Street, corner First Street.....	80	M
Bellevue Avenue and Garland Street.....	75	M
Birch, corner State Street.....	80	H
Birch, between State and Garland Streets.....	75	H
Birch, between Garland and Mt. Hope Avenue.....	73	H
Birch, corner Mt. Hope Avenue.....	60	H
Blackstone, corner Fountain Street.....	68	M
Blackstone Street, 200 ft. west of Center Street.....	65	M
Boutelle Road.....	65	M
Boyd, corner York Street.....	83	H
Broadway, corner French Street.....	55	M
Broadway, corner State Street.....	80	H
Broadway, corner Penobscot Street.....	78	H
Broadway and Somerset Street.....	70	H
Broadway, corner Cumberland Street.....	68	H
Broadway, corner Garland Street.....	70	H
Broadway, opposite Congress Street.....	75	H
Broadway, near 370 Broadway.....	60	H

	Pressure in pounds	Make
Broadway and Alden Streets.....	65	M
Broadway and Arctic Streets.....	68	M
Broad, corner Union Street.....	110	H
Buck and Main.....	90	M
Buck Street, near M. C. R. R. tracks.....	90	H
Catell and Hubbard Streets.....	88	M
Cedar, corner First Street.....	88	H
Cedar, corner Second Street.....	78	H
Cedar, corner 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, opposite Jefferson Street.....	78	H
Center, opposite Madison.....	70	H
Center, opposite Congress Street.....	65	H
Center, opposite Congress Street.....	65	H
Center, opposite Montgomery Street.....	55	H
Center, 600 ft. north of Montgomery.....	50	M
Center, corner Linden Street.....	50	M
Center, corner Poplar Street.....	50	M
Central Street, west of bridge.....	110	H
Central Street, east of bridge.....	110	H
Central and Harlow Street.....	108	M
City Stables and County Buildings.....	105	M
City Almshouse, Main Street, (in the yard).....	90	H
Columbia, opposite Cross Street.....	100	H
Cottage, corner Union Street.....	45	H
Cottage, between Ohio and Union Streets.....	38	H
Court, corner Hammond Street.....	90	H
Court, near Clark Street.....	88	H
Court, corner Boynton Street.....	78	H
Court, near T. U. Coe's residence.....	75	H
Dean, corner Fourteenth Street.....	43	M

	Pressure in pounds	Make
Dillingham Street, 600 ft. north of Main Street.....	70	H
Dutton Street, opposite Noyes & Nutter's foundry	90	H
Dutton Street, near M. C. R. R. tracks.....	93	M
East Market Square, corner State Street.....	105	H
East Summer, corner Hancock Street.....	93	H
East Market Square.....	108	H
East Street, corner Webster Avenue.....	53	M
E. M. General Hospital (in yard).....	95	M
Eastern Maine Insane Hospital.....	73	M
Elm Street, north of Mt. Hope Avenue.....	70	M
Elm Street, (east side) between Somerset and Gar- land.....	65	M
Elm, corner Garland Street.....	68	H
Elm Street, corner Stillwater Avenue.....	70	M
Elm Street, near Mt. Hope Avenue.....	68	H
Elm, corner Milford Street.....	68	H
Emerson, 475 ft. 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 Street, 400 ft. north of Garland Street.....	70	H
Essex Street, 800 ft. north of Garland Street.....	75	H
Essex Street, corner Stillwater Avenue.....	75	H
Essex Street, opposite Milford Street.....	68	H
Essex Street extension.....	63	M
Everett, corner Bower Street.....	70	H
Exchange, between Hancock and Washington Streets.....	115	H
Essex, corner York Street.....	85	H
Fern Street, between State and Garland Streets...	75	H
Fern Street, corner Garland Street.....	72	H
Fern Street, between Garland and Mt. Hope Avenue	80	M
Fifteenth Street, 500 ft. west of Ohio Street.....	58	H
Fifth Street, between Cedar and Warren Streets...	60	H
Fifth Street, corner Warren Street.....	70	H

	Pressure in pounds	Make
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 of Stillwater Avenue	60	H
Fountain, corner of Congress.....	60	M
Fourth, between Cedar and Warren Streets	70	H
Franklin, corner Hammond Street... ..	108	H
Franklin Street, East Side.....	110	H
Fremont Street, near house No. 44 (north side) ..	70	M
French and Congress Streets.....	65	M
French, 500 ft. north of Congress Street.....	60	M
French Street, corner West Park Street.....	75	M
French, corner State Street.....	90	H
French, corner Penobscot Street.....	73	H
French, corner Somerset Street.....	70	H
French, corner Cumberland Street.....	73	H
French, corner Garland Street.....	70	H
French and Washington Streets.....	110	M
Front, opposite May Street.....	110	H
Fruit, between State and Garland Streets.....	85	H
Fruit Street, 500 ft. north of Garland Street.....	75	H
Fourteenth, corner Hammond Street.....	43	M
Fifth, corner Cedar Street.....	55	M
Front Street, at Eastern S. S. Co's wharf.....	110	M
French, corner South Park Street.....	80	M
Garland and Howard Streets.....	75	M
Garland Street, opposite Maple Street.....	70	H
Grant Street, (east side).....	50	M
Grant Street, corner Montgomery Street.....	50	M
Grove Street, corner Garland Street.....	60	M
Gridley Street, off Newbury Street.....	80	H
Grove Street, between State and Somerset Streets	55	H

	Pressure in pounds	Make
Grove Street, between State and Garland Streets	65	H
Grove Street, between Garland and Stillwater Avenue	70	H
Grove Street, corner Stillwater Avenue.....	73	M
Hammond, opposite Fifth Street.....	55	M
Hammond, corner Cedar Street.....	50	H
Hammond, opposite Seventh Street.....	50	M
Hammond, corner Webster Avenue.....	45	H
Hammond, opposite Thirteenth Street.....	48	M
Hammond, near West Street.....	48	M
Hammond, near Kimball residence.....	40	M
Hancock, corner Newbury Street.....	105	H
Hancock, corner Boyd Street.....	110	H
Hancock, corner Carr Street.....	105	H
Hancock, corner Essex Street.....	100	H
Hancock, corner Oak Street.....	98	H
Hancock, corner Exchange Street.....	115	H
Hancock and Birch Streets.....	90	M
Harlow, near Haynes Court.....	100	M
Harlow, corner Kenduskeag Avenue.....	105	H
Harlow, corner Cumberland Street.....	105	H
Harvard and Bates Street.....	64	M
Harvard and Mt. Hope Avenue.....	65	M
Harvard and Colby Streets.....	66	M
Haymarket Square.....	105	H
Haynes Court.....	110	H
Hellier, corner Parker Street.....	95	H
Highland Avenue, opposite Charles Street.....	43	H
Highland Lane.....	45	M
High Street, near Burpee residence.....	78	H
Highland Street, near Stand-pipe.....	20	H
Highland Street and Highland Avenue.....	23	M
Hogan Road and E. M. I. Hospital Road.....	75	M
Hogan Road, 800 ft. from State.....	85	M
Holland Street, 500 feet west of Valley Avenue.....	75	H
Holland Street, corner Valley Avenue.....	100	H

	Pressure in pounds	Make
Howard, corner State Street.....	85	H
Harlow, corner Center Street.....	108	H
James Street, corner 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, corner Montgomery Street....	55	H
Kenduskeag Avenue, near John Scott's residence..	50	M
Kenduskeag bridge, State Street.....	110	H
Kenduskeag bridge, Hammond Street.....	115	H
Larkin and Third.....	70	M
Larkin Street, near Rio Street.....	75	H
Leighton, corner Montgomery Street.....	45	H
Leighton, near Otto Nelson's residence.....	45	H
Leighton, corner Poplar Street.....	48	M
Lincoln Street, 500 ft. from Main Street.....	78	H
Lincoln Street, corner Third Street.....	73	H
Linden, corner Leighton Street.....	45	M
Madison, corner Norfolk Street.....	63	H
Main Street, at B. R. & E. Co's car barn.....	95	M
Main Street, near Gas House.....	100	M
Main Street, Gas House yard.....	100	M
Main Street, near B. R. & E. Waiting Room.....	110	H
Main Street, opposite Cross Street.....	105	H
Main Street, corner Middle Street.....	104	H
Main Street, corner Union Street.....	97	H
Main Street, near Davenport park.....	100	H
Main Street, near Parkhurst's trunk factory.....	103	H
Main Street, near Railroad Street.....	103	H
Main Street, corner Patten Street.....	98	H
Main Street, corner Sidney Street.....	94	H
Main Street, corner Lincoln Street.....	93	H
Main Street, corner Dutton Street.....	95	H

	Pressure in pounds	Make
Main Street, near City Almshouse.....	93	H
Main Street, corner Dillingham Street.....	86	M
Main Street, corner Thatcher Street.....	90	M
Main Street, near Railroad bridge.....	90	M
Main Street, at Hampden line.....	100	M
Manners Avenue, corner Union Street.....	53	M
Maple, corner State Street.....	80	H
Maplewood Park, Dutton Street entrance.....	75	M
Maple Street, 500 ft. north of Garland.....	68	M
Maple Street, corner Mt. Hope Avenue.....	65	M
Maple Street, between State and Garland Streets	75	H
March, corner Main Street.....	90	M
Market, corner Cumberland Street.....	85	H
Market and Curve Streets.....	85	M
Market, corner Division Street.....	83	M
Market Street, 100 ft. north of Willow Street	85	H
May and South Streets.....	103	M
Merrimac Street, 200 ft. from Hancock Street.....	95	H
Montgomery, opposite Fountain.....	45	M
Morse & Co's Planing mill.....	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
Norway Road and Fairmount Park, West.....	45	M
Norway Road and Fairmount Park, East.....	40	M
Norway Road and Webster Avenue.....	40	M
North, corner West Street.....	45	M
Ohio and Autumn Streets.....	45	M
Oak, near Washington Street.....	105	H
Ohio, corner Hammond Street.....	75	H
Ohio, between Hammond and Hudson Streets.....	68	H
Ohio, corner Hudson Street.....	68	H
Ohio, opposite Everett Street.....	58	H
Ohio, corner Bower Street.....	63	H
Ohio, opposite Highland Street.....	53	H

	Pressure in pounds	Make
Ohio, corner Fremont Street.....	48	H
Ohio, corner Holland Street.....	50	H
Ohio, opposite Fourteenth Street.....	58	H
Ohio, opposite Sixteenth Street.....	65	H
Olive Court and Olive Street.....	85	M
Otis and Garland Streets.....	80	M
Otis, corner State Street.....	105	H
Palm and State.....	78	M
Palm, corner Garland Street.....	68	M
Palm Street, 600 ft. north of Garland.....	62	M
Park Street, 150 ft. from State.....	105	M
Parker, corner Fourth Street.....	83	H
Parker Street, 500 ft. from Third Street.....	75	H
Parkview Avenue, 500 ft. north of Garland Street	68	H
Parkview Avenue, corner Mt. Hope Avenue.....	68	M
Parkview Avenue, north of Mt. Hope Avenue.....	60	M
Park Street, near Tarrantine Club building.....	95	H
Patten Street, near No. 79.....	80	H
Pearl Street, south of State Street.....	85	H
Pearl Street, between State and Garland Streets..	80	H
Pearl Street, corner Mt. Hope Avenue.....	63	H
Pearl Street, corner State Street.....	80	H
Pickering Sq. and Water Street (west side).....	110	M
Pier, corner Seventh Street.....	58	H
Pine, opposite South Park Street.....	73	H
Pond, corner Hayward Street.....	48	H
Prospect Street, between Center and Harlow Streets	95	H
Parkview Avenue, 600 ft. south of Garland Street..	75	H
Pearl Street, 600 ft. north of Garland Street.....	75	H
Pumping Station Headhouse.....	120	H
Railroad, corner Front Street.....	108	H
Railroad, corner Pleasant Street.....	108	H
Railroad, corner Summer Street.....	105	H
Royal Road and Graham Avenue.....	43	M
Royal Road and Webster Avenue.....	63	M
Sanford, corner Cedar Street.....	85	M

	Pressure in pounds	Make
Sanford, between Cedar and Warren Streets.....	85	M
Sanford and Warren Streets.....	80	M
Salem Court.....	80	M
Second, 300 ft. from Union.....	80	M
Second Street, 300 ft. north of Warren Street.....	95	H
Seventh and Lincoln Streets.....	65	M
Seventh, between Savage and Larkin.....	60	M
Sidney Street, (east side).....	83	M
Sixteenth, corner Union Street.....	55	H
Sixteenth, between Ohio and Union.....	60	M
Sixth Street, between Hammond and Pier Streets..	58	H
Somerset, between Grove and Elm Streets.....	65	H
South, corner Pleasant Street.....	95	H
Spring Street, between Harlow and Center Streets	95	H
State Street and Hogan Road.....	112	M
State Street, at Eastern Maine General Hospital...	95	H
State Street, Dr. Peters' residence.....	110	M
State Street, J. Frank Green's Ice Houses.....	112	M
State Street, between Forest Avenue and Grove....	70	H
State Street, between Essex and Pine Streets.....	70	H
Summer, corner Cedar Street.....	95	H
Summer, corner Union Street.....	100	H
Summer, opposite South.....	95	M
Thatcher, 175 ft. west of Olive.....	90	M
Thatcher, 923 ft. from Main.....	80	M
Third, corner Walter Street.....	70	H
Union and Short.....	100	M
Union, corner 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 Street, 500 ft. north of Sixteenth Street.....	53	M
Union Street, near C. H. Phillips' residence.....	45	M
Valley Avenue, at Morse & Co's hardware store.....	110	M

	Pressure in pounds	Make
Valley Avenue, at Morse & Co's mill.....	118	H
Valley Avenue, at S. A. Maxfield Co's plant.....	105	M
Vine, 400 ft. west of Third.....	65	M
Walter Street, 500 ft. from Main Street.....	90	H
Walter Street, (north side).....	95	M
Warren, corner Third Street.....	73	H
Washington, corner Exchange.....	112	H
Washington Street, east of Pine Street.....	110	H
Washington Street, at Railroad bridge.....	105	H
Water Street, corner Pickering Square.....	108	H
Webster Avenue, opposite Lincoln Street.....	50	H
Webster Avenue, north, 554 ft. from Hammond.....	45	M
West Market Square, at Circular block.....	112	H
West Market Square, at Mercantile block.....	112	H
West Broadway, corner Union Street.....	30	H
West Broadway, corner Bowdoin Street.....	50	M
West Broadway, corner Lincoln Street.....	50	H
Wing, corner Seventh Street.....	60	H
Wing, corner Vernon Street.....	50	M
Wiley Street, (north side).....	45	M
York, corner Broadway.....	90	H
York, corner French Street.....	110	H
York, corner Exchange Street.....	100	H

Total number connected with system, 328

WATER RATES

BAKERIES

For first faucet.....	\$ 5 00
For each additional faucet.....	2 00
For each barrel of flour over two barrels daily (average)	2 00
For first water closet.....	4 00
For each additional water closet.....	2 00
For each urinal, self closing.....	2 00

BARBER SHOPS

For first chair with one bowl.....	\$ 4 00
For each additional chair.....	2 00
For each additional bowl.....	2 00
For water closet, private.....	4 00
For water closet used in common with other tenants.....	2 00
For urinal, self closing, private.....	4 00
For urinal, self closing, used in common with other tenants.....	50
For each air pump.....	3 00
The minimum charge for this class of service.....	5 00

BATHS

PUBLIC

For douche or turkish bath.....	\$10 00
For each shower bath.....	2 00
Other fixtures, same rates as for dwelling houses.	

BUILDINGS

BUILDINGS USED FOR OFFICES

For each office containing one faucet.....	\$4 00
For each additional faucet in same office.....	2 00
For wash bowl in corridor, used in common, per office..	2 00
For each water closet, private use.....	2 00
For water closet used in common, per office.....	2 00
For urinal self closing, used in common, per office.....	50
For each slop sink.....	2 00
For each revolving cuspidor.....	2 00

BUILDING PURPOSES

For each barrel of lime or cement	\$ 05
For hoisting engines, per month.....	2 00
Where the service is turned on for repairs or rebuilding the charge shall be at the rate of per year.....	5 00
The minimum charge for building purposes.....	1 00

CAFE AND EATING HOUSES

For first faucet.....	\$10 00
For each additional faucet.....	2 00
For each wash bowl.....	2 00
For the first water closet.....	5 00
For each other water closet.....	2 00
For first urinal, self closing.....	4 00
For each additional urinal.....	2 00
For bottle washers.....	10 00

1918]

CITY OF BANGOR

327

CEMETERY

The annual rate for cemetery..... \$50 00

CHURCHES

For organs run by water motor, net rate per year \$10 00

For all other rates, same as for dwelling houses, a discount of fifty per cent. will be made thereon. The minimum charge for this class of service not less than 5 00

CIRCUS

For one ring, per day..... \$ 5 00

For two rings or more, per day..... 10 00

If the services of an inspector are required, the additional charge at cost.

DWELLING HOUSES

For first faucet to be used by single family..... \$5 00

For each additional faucet to be used by same family.... 2 00

For first water closet..... 3 00

For each additional water closet for same family..... 1 00

For first bath tub, with or without shower..... 3 00

For each additional bath tub, with or without shower, same family..... 1 00

For first shower bath, not connected with bath tub..... 2 00

For each additional shower bath not connected with bath tub..... 1 00

For each urinal, self closing..... 1 00

For each wash bowl..... 1 00

For wash tubs, set including two..... 1 00

For each wash tub, over two.....	50
For each wash boiler.....	50
For each slop sink.....	1 00
For each chamber faucet.....	1 00
For faucet in cellar, not to be used for outside sprinkling	1 00
For house occupied by more than one family, and only one faucet being used by all, for first family.....	5 00
For each additional family, same faucet.....	4 00
For water closet used by two or more families in one house, first family.....	3 00
For each additional family, same closet.....	2 00
For bath tub used by two or more families in one house, first family	3 00
For each additional family, same tub.....	1 00
For hand hose, sprinkling lawns, gardens, streets.....	3 00
For set hose, automatic attachment, lawn sprinkling, etc.....	5 00
Hose rates, are per season on takers premises. If the sill faucet has been shut off and later turned on, the rate per month shall be.....	75
Where the hose is used for sprinkling from an inside faucet the rate per month is.....	50
Private elevator service.....	24 00
The minimum charge for this class of service	5 00

FIRE PROTECTION

PRIVATE FIRE SERVICE

For each fire hydrant installed on owner's premises.....	\$30 00
For stand-pipes having fire hose connections, each opening, per year.....	50

AUTOMATIC SPRINKLERS

For each two-inch connection, per year.....	\$ 5 00
For each four-inch connection, per year.....	10 00
For each six-inch connection, per year.....	15 00
For 100 sprinkler heads or less, per year.....	1 00
For each additional sprinkler head above 100, per year..	01

GARAGES

PUBLIC

The rate where not determined by meter shall be:

Faucet for washing cars.....	\$10 00
All other rates same as for stores and work shops.	

PRIVATE

Faucet in garage, one machine.....	\$4 00
For each additional machine.....	2 00

PRIVATE GREEN HOUSES

For first faucet.....	\$2 00
For each additional faucet or opening.....	50

PUBLIC GREEN HOUSES

For first faucet.....	\$10 00
For each additional faucet or opening.....	50

PUBLIC HALLS

Including Theatres, Society Halls, Bowling Alleys, Billiard
and Pool Rooms, etc.

For first faucet.....	\$5 00
For each additional faucet.....	2 00
For first water closet.....	5 00
For each additional water closet.....	2 00
For each urinal, self closing.....	2 00
For each wash bowl.....	3 00
For each slop sink.....	2 00
The minimum charge for this class of service	5 00

HOTELS AND BOARDING HOUSES

For first sink faucet.....	\$10 00
For each additional faucet.....	2 00
For each wash bowl.....	2 00
For first water closet.....	5 00
For each additional water closet.....	2 00
For first bath tub, with or without shower.....	5 00
For each other bath tub, with or without shower.....	2 00
For each individual shower.....	2 00
For each urinal, self closing.....	4 00

Eight boarders, mealers or lodgers, independent of members of family, shall indicate the rating for above.

LAUNDRIES

For set wash tub, first two, each.....	\$10 00
For each additional wash tub.....	5 00
Other fixtures same as for stores and work shops.	

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CITY OF BANGOR

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METER RATES

DOMESTIC SERVICE

The minimum charge, per quarter.....	\$3 00
This includes 1200 cubic feet or 9,000 gallons	
For each additional 100 cubic feet, per quarter.....	20

OTHER METERED SERVICES

For a 6 inch meter, minimum charge, per quarter.....	\$25 00
(This allows 33,000 cubic feet to be used quarterly)	
For a 4 inch meter, minimum charge, per quarter.....	15 00
(This allows 15,000 cubic feet to be used quarterly)	
For a 3 inch meter, minimum charge, per quarter.....	6 00
(This allows 5,000 cubic feet to be used quarterly)	
For a 2 inch meter and smaller, minimum charge per quarter.....	3 00
(This allows 2,000 cubic feet per quarter)	
For the first 100,000 cubic feet, or any part thereof over the allowance indicated above, rate per 100 cubic feet	07
For all over the first 100,000 cubic feet, rate per 100 cubic feet.....	05

PHOTOGRAPH GALLERIES

For first faucet.....	\$8 00
For each additional faucet.....	2 00
For each wash bowl.....	2 00
For each water closet.....	2 00

PRINTING HOUSES

For first faucet.....	\$5 00
For each additional faucet.....	2 00
For wash bowl in corridor used in common.....	2 00
For each water closet.....	2 00
For each water closet in corridor used in common.....	2 00
For each slop sink.....	2 00

PRIVATE STABLES

For one horse and washing carriage.....	\$5 00
For each additional horse.....	1 50
For one cow.....	2 00
For each additional cow.....	1 00
Truckman's stable, one horse and washing wagon	5 00
For each additional horse.....	1 00
Riding school, first horse.....	5 00
For each additional horse.....	1 00

PUBLIC STABLES

For one horse and carriage washing.....	\$ 5 00
For each additional horse.....	1 50
For sales stables, per stall, per year.....	50
The minimum charge for sales stables, per year.....	10 00
Other fixtures, same as for stores	

STEAM BOILERS FOR POWER

And Sectional and Tubular Boilers for Heating Steam Boilers
for Power

Steam boilers, 10 H. P. or less.....	\$7 50
Steam boilers, 10 to 50 H. P. per H. P.....	55
Steam boilers, 50 to 100 H. P. per H. P.....	45
For all over 100 H. P. per H. P.....	30

SECTIONAL BOILERS FOR HEATING

Grate Area

0. to 5.0 square feet, each.....	\$ 60
5.1 to 10.0 square feet, each.....	1 20
10.1 to 15.0 square feet, each.....	1 80

TUBULAR BOILERS FOR HEATING

Grate Area

8.0 to 15.0 square feet, each.....	\$3 00
15.1 to 20.0 square feet, each.....	3 60
20.1 to 25.0 square feet, each.....	4 20
25.1 to 30.0 square feet, each.....	5 40
30.1 to 35.0 square feet, each.....	6 60
35.1 to 40.0 square feet, each.....	7 80

STORES AND WORK SHOPS

For each tenement used as a store, shop or market:

For first faucet.....	\$5 00
For each additional faucet.....	2 00
For first water closet.....	4 00

For each additional water closet.....	2 00
For each urinal, self closing.....	2 00
For window or vegetable spray, per season	5 00
For soda fountain glass washer.....	5 00
For each additional soda fountain glass washer	2 00
For counter faucet, alone for glass washing.....	5 00
For each additional counter faucet.....	2 00
For Carbonator, with pump.....	2 00
For each air pump.....	3 00
For use hose, washing windows, sidewalk, etc.....	3 00
Occupants of stores having use of water closet outside of their premises.....	2 00



Report of the Schools



SCHOOL BOARD

GEORGE W. WESCOTT.....Term expires March, 1919
FREDERIC W. ADAMS.....Term expires March, 1919
WALTER A. DANFORTH.....Term expires March, 1920
ARTHUR H. BLACK.....Term expires March, 1921
J. F. ANGLE.....Term expires March, 1921

Officers of the Board

GEORGE W. WESCOTT, Chairman
D. LYMAN WORMWOOD, Secretary

Regular meeting of the School Board, the second Tuesday of each month
at 7.30 p. m.

Superintendent of Schools

D. LYMAN WORMWOOD
AGNES N. TAYLOR, Clerk

School Agent

GEORGE W. CLUFF

Truant Officer

GEORGE W. CLUFF

Office of the Superintendent of Schools—Room 106, High School Building
Office is open from 8 o'clock a. m. to 11.30 a. 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—10 to 11 a. m.

Office of the School Agent—Room 2, City Hall
Office hours—8 to 9 a. m. and 4 to 5 p. m.

CALENDAR

Fall term begins Sept. 16, 1918

Winter term begins Jan. 6, 1919

Spring term begins April 7, 1919

Fall term ends Dec. 20, 1918

Winter term ends Mar. 28, 1919

Spring term ends June 13, 1919

Report of the
Superintending School Committee

BANGOR, MAINE, July 2, 1918.

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

The Superintending School Committee begs leave to submit its annual report upon the last year's work of the schools.

“The entire spirit of the Administration in Washington is, and has been from the beginning, that the war should in no way be used as an excuse for giving the children of the country any less education, in quantity or quality, than they otherwise would have had, but, on the contrary, that the schools should do everything possible to increase their efficiency, to the end that the children now in the schools may at the conclusion of their course be even better qualified than ever before to take up the duties and responsibilities of life. Both the present demands of the war emergency and the prospective demands of the necessary readjustments inevitably to follow emphasize the need of providing in full measure for the education of all the people.

The President has repeatedly called the attention of the Nation to the urgent necessity of this special form of conserva-

tion. He has particularly urged young people graduating from the high schools to avail themselves of the opportunities offered by the colleges and technical schools, "to the end that the country may not lack an adequate supply of trained men and women," and he assures young people who are not called to active military service that "by pursuing their courses (in school) with earnestness and diligence they also are preparing themselves for valuable service to the Nation." (July 20, 1917, letter to Secretary Lane.)*

The High School, as usual, has shown a very substantial increase in enrollment and efficiency. The graduating class numbered 152, the largest class ever graduated from the High School. The graduating exercises, held June 14, showed the excellent work being done by both teachers and pupils. There has been marked improvement in the military drills and we look for better results next year.

The service flag at the High School has 22 stars, showing that the school is trying, at least, to do her share.

In the Grammar Schools the same crowded conditions exist as last year, showing the urgent need of the new school building on Thirteenth Street. The foundation is built, but the completion of the building is delayed, owing to war conditions and lack of funds. With the \$30,000 to be raised this year for the new school, we shall be already to build when conditions warrant.

There were 245 graduated from the 9th grade, most of whom will enter the High School. The Rural Schools are up to their usual good work and a great deal of credit is due the teachers as the work is trying in these schools. The Mt. Hope School is very much in need of repairs, as there have not been any improvements made for a long time.

The whole number of pupils registered last year were as follows:

High School.....	1003
Grades.....	3259
Rural	290
Kindergarten.....	362
	<hr/>
Total.....	4914

The total is 50 more than last year.

The Night School under Mr. Gray and his assistants, had 179 students registered showing the popularity of this excellent branch of the school system.

“There is a strong demand for clerks, stenographers, and typewriters, but the places can not be filled by boys and girls under 18 years of age. No advantage would accrue to the civil service in any way by shutting down the schools or by curtailing school facilities. Many civil service positions have been filled by drawing workers from commercial and industrial houses, and also by drawing teachers from the schools. All of the positions thus made vacant must be filled from some source. Therefore, schools could undoubtedly render a much-needed service by organizing classes to train stenographers, typewriters, clerks, and secretaries.”*

We have in the Night School started such classes as is signified by the fact that during the year 90 pupils were enrolled in the study of stenography and 70 in Typewriting. A future extension can naturally be made to follow.

The Medical Inspection has been carried on as usual and we have had no report of any contagious diseases in the schools. Some of the Medical Inspectors have enlisted and it is hard to have this work done, so many have been called into service.

Improvements and repairs have been made at the Hannibal Hamlin, Abraham Lincoln, Pearl Street, Forest Avenue, Stillwater Avenue and Bagley schools.

Forty-eight new desks were installed in the High School last fall and this fall 100 more will be needed for the large classes that are to enter.

A satisfactory change was made when the Thirteenth Street Kindergarten was moved to the vestry of the First Christian Church on Hammond Street.

As in the past reports we would again urge the very important need of building a concrete sidewalk in front of the High School, also repair the bank at the rear of the building.

“There appears to be nothing in the present or prospective war emergency to justify curtailment in any respect of the sessions of the elementary schools, or of the education of boys and girls under 14 years of age, and nothing which should serve as an excuse for interference with the progressive development of the school system. Teachers and pupils may be encouraged to find ways of performing in the schools some service having war value, such as activities connected with the Junior Red Cross, war-garden work, Boy Scouts, war-thrift work, and the like. Opportunities should be found to introduce into the school activities having real educational value, which at the same time connect the public schools with the ideals of service and self-sacrifice actuating our people, and bring home to the consciousness of teachers, pupils, and parents the essential unity of the Nation in this great crisis.”*

“Boys and girls should be urged, as a patriotic duty, to remain in school to the completion of the high school course, and in increasing numbers to enter upon college and university courses,

especially in technical and scientific lines, and normal school courses, to meet the great need for trained men and women.”*

A report of the expenditures and estimates of the department are herewith attached.

For details of the work of the past year you are referred to reports of the Superintendent of Schools, the Principals of the High School and the Grammar Schools, the Director of the Kindergartens, Heads of the Manual Training and Domestic Science Departments, and also the School Agent.

Respectfully submitted,

GEORGE W. WESCOTT

FREDERIC W. ADAMS

ARTHUR H. BLACK

J. F. ANGLE

WALTER A. DANFORTH

Superintending School Committee

*Taken from Bureau of Education, Teachers' Leaflet No. 3.

Estimate for the Year 1918-19

General Administration

Salary of Supt., S. S. Committee, Medical Inspectors, Clerk.....	\$4,700 00
Office Supplies.....	150 00

Teachers' Salaries:

High School, Inc. M. Tr. and D. Sci.....	39,920 00
Common Schools, Inc. M. Tr. and D. Sci.....	78,500 00

Text-books and Supplies..... 9,500 00

Janitor's Service:

High School Janitors and Engineers.....	6,000 00
Common Schools.....	6,400 00

Fuel and Light:

High School.....	7,500 00
Common Schools.....	10,000 00

Maintenance and Repairs..... 8,000 00

Manual Training Supplies..... 1,100 00

Domestic Science Supplies..... 600 00

Night School:

Teachers' Pay Roll.....	825 00
Night School Supplies.....	80 00

Conveyance..... 300 00

Water for Schools and Drinking Cups..... 150 00

Incidental:

Telephone.....	}	1,500 00
Miscellaneous.....		
Insurance.....		7,500 00
Rent of Buildings for School Purposes.....		575 00
School Agent's Salary.....		700 00
Retubing two (2) Boilers, High School Plant.....		2,000 00
		\$186,000 00

(This Budget was presented and approved by the School Board at a special meeting held May 8, 1918).

RECEIPTS AND EXPENDITURES

Year Ending March 1, 1917

Amount raised by city from taxation.....	\$97,308 23
Received from State Fund and Mill Tax	55,529 73
“ “ “ on account of Salary of Supt.....	800 00
“ “ “ for Free High School.....	500 00
“ “ “ for Industrial Education and Evening School.....	2,889 99
“ “ Pupils for Tuition.....	6,954 90
“ “ Bangor Public Library for Heating Bldg.....	1,200 00
“ “ Sale of Books, Supplies, etc.....	59 20
“ “ Night School (Turned into Treasurer).....	85 00

Credits, as per Auditor's Account:

General Administration (Oct. Roll, Mr. Crowell).....	\$5 00
Repairs (July Roll) Dunham-Hanscom Co.....	\$ 77
Repairs (Nov. Roll) Porter-Parsons Co.....	6 65
	7 42
	12 42

Total amt. for schools, year ending March 1, 1918.....\$165,339 47

AMOUNT EXPENDED

General Administration:

Salary of Supt., S. S. Committee, Clerk and Medical Inspectors.....	\$4,600 41
Office Supplies.....	147 38
School Agent.....	699 96

Teachers' Salaries:

High School Teachers.....	37,731 60
Common School Teachers.....	75,066 92

Text-books and supplies..... 9,475 96

Janitors' Service:

High School Janitors.....	5,124 54
Common School Janitors.....	5,894 37

Fuel and Light:

High School.....	7,597 82
Common Schools.....	9,952 74

Maintenance and repairs..... 7,774 73

Manual training.....	826 34
Domestic Science.....	607 86
Night School Teachers.....	779 50

Rent of buildings for School Purposes..... 500 00

Incidental.....	2,871 69
Conveyance.....	308 00
Water.....	92 90
Night School Supplies.....	85 47

170,138 19

Amount overdrawn..... \$4,798 72

Library Fund: (Separate Fund)

Amount unexpended..... \$58 39

Report of the Trustees of the French Medal Fund

To the City Council:

Gentlemen:—The following awards of the C. E. French Medals were made for the school year 1917-1918:

HIGH SCHOOL

- Scholarship: Mary E. Clough
Frances M. Crowe
- Essay: Doris O. Carr
A. Everett Eveleth
- Declamation: Agnes B. C. Olsen
H. Vincent Smart
- Stenography and Typewriting:
Evelyn F. Currier

HANNIBAL HAMLIN SCHOOL

Pearl Roberta Graffam
Julia Valentine Johnson
Dorothy Louise Mincher
Anna Mary Smith

ABRAHAM LINCOLN SCHOOL

Ada Cohen
Elizabeth Pauline Clough
Malcolm A. Tapley
Eva Pearl Rolnick

RURAL

Clive Wentworth

GEORGE W. WESCOTT
FREDERIC W. ADAMS
WALTER A. DANFORTH
ARTHUR H. BLACK
J. F. ANGLE

Trustees

THE FRENCH MEDALS

For Scholarship

A medal will be given to the member of the graduating class who has attained the highest rank in scholarship throughout the four years' course, and to the one who has attained the next highest rank.

For Graduating Essays

Medals will be given to the girl and the boy in the graduating class who present the best essay.

Stenography and Typewriting

A medal will be given to the member of the graduating class who excels in stenography and typewriting, the result to be determined by competitive examination.

Declamation

Medals will be given to a girl and a boy in the Junior Class for excellence in declamation at the Junior exhibition.

In no case shall two medals be awarded the same pupil.

No pupil, who has not been a member of the school for four years, shall receive a Senior medal.

No pupil, who has not been a member of the school for three years, shall receive a Junior medal.

No pupil, whose scholarship or deportment has been unsatisfactory, shall receive a medal.

For Scholarship

One medal will be given in each 9th grade room for the highest rank in scholarship throughout the four years in the grammar grades. Also one medal will be given each year in the 9th grade rural schools.

Report of Superintendent of Schools

To the Superintending School Committee of Bangor, Maine:

Gentlemen:—I have the honor to submit for your consideration the twenty-eighth annual report in the series of the Superintendent of Schools for the school year ending July 1, 1918, and the sixth report by the present Superintendent.

No social activity can escape the influence of a great war. This is as true of the public schools as it is of business or the home. The specific problem which presented itself was to carry on the regular school work with the least interruption. Almost from the beginning it became obvious that, if the schools were to undertake additional work by adding to an already overcrowded program, the pupils would scarcely be able to complete the work as outlined by the course of study. It was found possible to actually improve the work of the schools, not by adding special activities, but by permitting such special activities to displace to some extent those already in force. This meant that the whole scheme, administration, curriculum, and the methods of instruction were modified so that all of the so-called "war activities" became a valuable means of education. A careful discussion of results with the principals of the different buildings this Spring leads me to believe that the extra effort put forth by the pupils under the guidance of their teachers along the lines of service in helping to win the war will be of great assistance to them in their future character building.

For a time many volunteer committees and councils established throughout the country were, for the lack of training,

slow and clumsy in their operations, but this was not so when the public schools undertook work for the war. No organization can so easily and so quickly reach the homes of all the pupils as the public school.

In the past year teachers and pupils have been called upon to assist in the following ways:—floating three “Liberty Loans,” put out by the Government; in the Y. M. C. A. drive; in Red Cross work; and particularly in the Thrift and War Savings Stamps Campaign in which the teachers and scholars invested from the last of January to the closing of the Spring term, June 14, about \$20,000. Our teachers also transcribed 3400 cards for the Government, rendering this service gladly for the country, but their cheerful and efficient help deserves this word of appreciation.

During the last year a clearer vision has come to us of the real function of our public schools—that they are not merely local institutions but that they are rather units of a national institution entrusted to the towns and cities for administration, to the end that the nation’s welfare shall be promoted and our democratic and civic life be made cleaner and more efficient. It has been a source of inspiration to me that the several calls for help and service have met with so fine a response in the schools and that, at the same time, the regular work of the class room has been carried on so cheerfully and well.

HIGH SCHOOL

The following changes in the teaching force were made in the High School this year:

Resignations:

Estelle I. Beaupre, Hall C. Dearborn, Herbert E. Congdon, Amy E. Ware and Lee T. Gray.

Appointments:

Estelle I. Beaupre, Madeline Robinson, Margaret L. Holyoke, Ella L. Pennell and Harry D. O'Neil.

The work in the High School is certainly worthy of commendation. I was very much pleased to receive a letter from Doctor A. O. Thomas, State Superintendent of Schools, which I will have printed in full for the benefit of those who may be interested in the standing of the school.

May 13, 1918.

Supt. D. Lyman Wormwood,
Bangor, Maine.

My dear Mr. Wormwood:

The representatives of the Maine colleges in conjunction with this department reviewed the records of students entering Bates, Bowdoin and the University of Maine from the secondary schools. We found that the record of students from the Bangor High School was of exceptional merit in all respects. I am voicing the wishes of the college representatives in expressing my appreciation for the excellent work which graduates of your school have done during their first semester's work in college. Unfortunately we did not have the report from Colby College. I have no doubt, however, that any of your students who may have been in attendance there have done equally well.

With best wishes for the continued success of your school, I remain

Cordially yours,

(Signed) AUGUSTUS O. THOMAS.

NUMBER OF PUPILS ENROLLED IN THE HIGH SCHOOL

Seniors	148
Juniors	159
Eleventh Grade.....	264
Tenth Grade.....	435
Specials	8
Post Graduates.....	6
<hr/>	
Total	1020

The maximum capacity of the High School Building was intended to be 950. This year we have had over a thousand pupils in the school. The graduating class numbered 152. The entering class from the grammar schools numbered 245, not including the private and out of town scholars. I think a conservative estimate for the registration in the High School next year will be upwards of 1100. Last year we relieved the crowded condition by arranging for the Elementary Manual Training and Domestic Science at the Abraham Lincoln School. This year I think it will be necessary to have the elementary work in the Hannibal Hamlin Building. This will give us one more room at the High School.

The valuable custom of reading the names of those who have attained an average of 95% or above in the several studies has been continued this year. Some of the names appear more than once, yet there are 114 different names on the list divided as follows: Seniors, 20; Juniors, 18; Eleventh grade, 31; and the Tenth grade, 45. A much larger proportion of those Freshmen who completed the work at the end of the eighth grade received honorable mention than those who completed the work at the end of the ninth grade.

COMMON SCHOOLS

The resignations and appointments made in the common schools during the year:

Resigned:

Bernice Babcock, Rosemarie Gallagher, Margaret F. Toole Mollie B. Cullinan, Ethel Rowe, Caro M. Pendleton, Eva L. Grant, and Corinne M. Barker was granted a leave of absence.

Appointments:

Winnie B. Andrews, Gladys Galvin, Ethel Rowe, Nellie L. Beatty, Anna A. Jones, Dwight F. Meserve, Mildred A. Horne, Mabel E. Sweet, and Margaret Gallagher.

The arrangement mentioned above for the Manual Training and Sewing classes in the Grammar School buildings will be very satisfactory to the principals and will save much valuable time for the pupils.

The grouping or double promotion in the grades is, I am sure, no longer an experiment but a success as shown by the High School records. I am convinced that this grouping should begin in the fifth grade. In classifying the pupils, as is done in the sixth, seventh and eighth grades, more intensive study and individual work is done, and consequently, we get better results.

I think the time has come when a man should be employed (part time) to take charge of the orchestra and vocal work in the High School. I am not trying to under-rate the work done by Mrs. Eaton, for her work has been excellent. Yet when we consider the matter, the music in the grades and the Grammar School orchestra will give plenty of work for one teacher without the High School music. I recommend, therefore, such a course to the School Board.

We have not attempted to make any new departures this year but have continued to do better the same work that we did last year. The specific aim of our school is to give, not to the class, but to each individual pupil the encouragement and training that makes for good citizenship. This department has endeavored to do its share in war work and to support those in authority over us.

I am well aware that in a short time our vocational courses must be extended to assist those who will return from the front. From the different classes of men I expect to find both teachers and those who will need to be taught new vocations because of the vicissitudes of war.

I trust I have made it plain to the teachers that I appreciate their work and interest shown during the past year, for I realize that no body of teachers could work harder or accomplish more.

The reports of the Principals and Heads of the different departments follow my report. I trust you will read them carefully.

Thanking the School Board and all others who assisted me in making this year a success,

Respectfully submitted,

D. LYMAN WORMWOOD,
Superintendent of Schools.

July 1, 1918.

School Buildings owned by City, 28 Buildings Rented for School Purposes, 2

The High School, with an enrollment of 1020 pupils, has:

Offices for the Superintendent of Schools
Offices for the Principal
17 Class Rooms
7 Recitation Rooms
A Bookkeeping and Banking Room
A Stenography Room
A Typewriting Room
A Science Lecture Room, equipped with stereopticon
A Biology Laboratory
A Physiography Laboratory
A Chemical Laboratory
A Physics Laboratory
A Drawing Room for Mechanical Drawing
A Drawing Room for Freehand Drawing
2 Dark Rooms for Photography
1 Wood Working Room
1 Metal Working Room
1 Cooking Room with pantry and dining room connected
A Sewing Room
A Room for the grammar school Manual Training work
12 Storerooms
2 Teachers' Offices
2 Teachers' Reception rooms
A Medical Room
A Library
A Lunch Room
2 Locker Rooms
2 Toilet Rooms
A Gymnasium with two dressing rooms adjoining
An Assembly Hall with two ante-rooms adjoining stage

EAST SIDE

Name of School	No. of Rooms	No. of Pupils
Abraham Lincoln.....	20	856
Center Street.....	4	231
Longfellow*.....	4	185
Elm Street*.....	4	227
State Street*.....	4	178
Forest Ave.....	2	63
Pearl Street.....	2	80
Pearl St. Kindergarten.....	2	40

WEST SIDE

Name of School	No. of Rooms	No. of Pupils
Hannibal Hamlin.....	14	537
Valentine*.....	6	275
Pond Street.....	4	184
Larkin Street*.....	6	275
Bower Street*.....	4	182
Allen Street.....	2	98
Cottage Street.....	2	102
Third Street.....	1	29
Crosbyville.....	1	32
Hammond Street Kindergarten	1	47
Rural Schools.....	11	290

NUMBER OF TEACHERS EMPLOYED

High School, 1 master, 1 sub-master and 38 assistants.....	40
Grammar grades, 2 principals and 26 assistants.....	28
Primary grades, teachers 48.....	48
Surburban schools, 11 teachers and 1 assistant.....	12
Kindergarten, 1 supervisor, 8 principals and 8 assistants.....	17
Special teachers, 6.....	6

 151

*Includes Kindergartens

AVERAGE NUMBER OF PUPILS TO EACH TEACHER

High School.....	25
Grammar grades.....	41
Primary grades.....	44
Surburban schools.....	26
Kindergarten—Director and Assistant.....	45

COST OF TUITION, INCLUDING SALARIES OF TEACHERS,
JANITORS' SERVICE, FUEL, BOOKS AND SUPPLIES

	Per Week	Per Year
High School.....	\$1.17.....	\$42 00
Upper Grammar (6-9).....	50.....	18 00
Lower Grammar (4-5).....	50.....	18 00
Primary.....	35.....	12 60
Surburban.....	45.....	16 20

All tuition is due and payable in advance.

GENERAL STATISTICS

Value of Bangor for 1917.....	\$25,409,478.00
Population of Bangor by census of 1910.....	24,815
Population between ages of 5 and 21 years.....	6,288
Total enrollment in public schools.....	4,441
Average enrollment in public schools.....	3,955
Enrollment of pupils in parochial and private schools approx.	981
Percentage of school population in public and private schools	87%
Appropriation received from the City.....	\$97,308.23

School	Name of Teacher	Spring Term				Fall Term				Winter Term			
		Boys	Girls	No.	Av.	Boys	Girls	No.	Av.	Boys	Girls	No.	Av.
Abraham													
Lincoln	Herbert Poole, Prin.....												
	IX Alma L. Davis.....	20	19	39	38	21	21	42	40	21	19	40	38
	IX Minnie E. McCarthy.....	11	14	25	24	14	15	29	26	12	13	25	24
	IX Frances B. Mosher.....	14	13	27	25	14	13	27	25	14	12	26	25
VIII & IX	Alice W. Trickey.....	26	15	41	39	25	18	43	40	25	18	43	41
VIII	Lilian C. McCarthy.....	16	13	29	27	17	13	30	26	16	13	29	27
VIII	Katherine Quigley.....	18	12	30	29	18	13	31	29	17	12	29	27
VIII	Helen J. Mountaine.....	14	26	40	37	14	27	41	37	13	26	39	37
VII	Corinne M. Barker.....	23	20	43	40	26	23	49	45	21	21	42	39
VII	Ida E. Frost.....	23	22	45	41	25	23	48	44	25	23	48	45
VII	Agnes M. Mullaney.....	18	25	43	39	18	25	43	41	18	25	43	40
VI	Sadie R. Blaisdell.....	18	22	40	37	20	25	45	41	19	22	41	39
VI	Kathryn T. Preble.....	14	25	39	37	18	27	45	38	15	26	41	39
V	Alice M. Collins.....	21	18	39	38	24	18	42	37	22	18	40	37
V	Nellie P. Blaisdell.....	22	16	38	35	25	18	43	37	22	16	38	34
V	Augusta P. Mountaine ...	25	17	42	38	25	17	42	36	22	17	39	35
IV	Nettie M. Howard.....	22	17	39	34	21	20	41	37	21	18	39	36
IV	Mabel A. Weymouth.....	19	18	37	34	21	20	41	37	21	19	40	35
IV	Sarah A. Ryder.....	22	19	41	38	23	18	41	37	23	19	42	39
II & III	Mabel M. Drinkwater.....	30	15	45	43	30	17	47	41	30	15	45	43
I	Helen N. Christian.....	19	18	37	32	16	14	30	25	18	15	33	28
Hannibal													
Hamlin	Charles P. Allen, Prin.....												
	IX Annie M. Ervine.....	10	15	25	24	10	16	26	24	10	15	25	24
	IX Annie L. Roney.....	15	18	33	31	17	22	39	36	16	18	34	33
	IX Kate M. Allamby.....	15	13	28	27	15	13	28	27	15	13	28	27
	IX Sara L. Field.....	17	15	32	30	17	16	33	31	17	17	34	31
VIII	Mae O. Straw.....	12	10	22	21	16	13	29	25	13	12	25	22
VIII	Gertrude E. Fogg.....	15	18	33	31	15	18	33	32	15	17	32	30
VII	Ann E. Neville.....	20	18	38	36	20	18	38	37	20	18	38	37
VII	Flora E. Whitley.....	18	20	38	35	19	20	39	36	18	20	38	36
VII	Martha A. Colburn.....	18	18	36	33	18	19	37	35	19	19	38	35
VII	Mary E. Lynch.....	19	11	30	28	21	15	36	29	22	11	33	30

School	Name of Teacher	Spring Term				Fall Term				Winter Term			
		Boys	Girls	No.	Av.	Boys	Girls	No.	Av.	Boys	Girls	No.	Av.
Hannibal													
Hamlin VI	Lilla E. Curtis.....	20	17	37	35	23	18	41	38	20	18	38	34
VI	Mary T. Gibbons.....	23	18	41	38	23	20	43	39	21	21	42	38
VI	Annie F. Moore.....	22	18	40	38	22	19	41	38	22	19	41	39
V	Esther M. Curran.....	13	24	37	32	14	25	39	35	13	25	38	35
Valentine.....													
V	Bessie McCoy.....	24	10	34	31	28	10	38	35	25	11	36	33
IV	Allena H. Jewett.....	14	25	39	36	14	25	39	36	14	25	39	35
III	Elizabeth Nickerson.....	18	16	34	31	20	16	36	31	19	16	35	32
II	Mary Gallagher.....	15	21	36	34	14	23	37	31	16	23	39	34
I	Gertrude Simpson.....	20	18	38	33	22	19	41	33	23	19	42	37
Pond St.													
V	Marion J. Mullen.....	21	22	43	41	23	22	45	42	21	22	43	42
IV	Jessie Lord.....	28	17	45	42	26	20	46	42	27	18	45	43
II & III	Eva W. Stewart.....	19	27	46	43	18	27	45	43	19	25	44	39
I	Lucie W. Preble.....	9	17	26	23	11	19	30	26	10	16	26	24
Centre St.....													
VI	Mary Sullivan.....	14	19	33	30	19	21	40	35	16	19	35	31
IV & V	Ruby M. Gould.....	21	25	46	42	23	27	50	43	20	25	45	39
II & III	Eleanor A. Gayton.....	22	33	55	51	20	36	56	50	21	35	56	50
I	Elizabeth A. Norton.....	25	15	40	33	26	16	42	32	22	14	36	29
Longfellow													
IV & V	Augusta P. Kirstein.....	13	26	39	37	13	27	40	37	13	26	39	36
II & III	Pauline F. Pretto.....	22	22	44	38	23	20	43	40	21	23	44	38
I	Grace E. Gallagher.....	17	20	37	31	20	18	38	36	18	19	37	33
Elm St.													
III	Harriet L. Mosher.....	26	17	43	39	29	20	49	42	28	18	46	41
II	Margaret M. Gallagher....	19	21	40	37	25	22	47	41	23	21	44	40
I	Alice M. Keith.....	20	26	46	42	23	27	50	44	22	24	46	41

School	Name of Teacher	Spring Term				Fall Term				Winter Term			
		Boys	Girls	No.	Av.	Boys	Girls	No.	Av.	Boys	Girls	No.	Av.
Larkin St.....													
	V Mary A. Walsh.....	16	17	33	31	16	17	33	31	16	17	33	31
	IV Helen C. Hickson.....	21	19	40	33	21	19	40	36	21	19	40	36
	III Bernice S. Welch.....	18	18	36	33	19	19	38	33	16	18	34	31
	II Frances K. Donovan	15	12	27	23	17	15	32	24	13	13	26	21
	I Helen C. Hennessy.....	23	19	42	34	27	25	52	41	22	20	42	36
Bower St.													
	IV Margaret S. Hamilton.....	24	19	43	41	24	19	43	40	22	19	41	37
	II & III Margaret F. Toole	12	27	39	37	18	29	47	40	13	26	39	36
	I B. Teresa Curran	19	14	33	29	18	11	29	22	19	13	32	26
State St.													
	II & III Mary R. Spratt	15	18	33	31	14	20	34	30	15	18	33	31
	I & II Eunice R. Coney.....	19	18	37	35	16	18	34	27	18	17	35	31
	I Helen L. Donnelly	12	19	31	29	17	22	39	32	12	19	31	28
Pearl St.													
	II & III Mary Clayton.....	15	14	29	26	14	16	30	23	13	17	30	23
	I Louise A. O'Connor.....	19	10	29	25	21	15	36	30	18	10	28	22
Allen St.													
	II & III Nellie A. Sullivan.....	22	27	49	45	22	28	50	44	20	28	48	45
	I Marion D. Buzzell	19	19	38	36	23	19	42	35	19	19	38	34
Cottage St....													
	II & III Alzada C. Withee.....	22	27	49	44	24	27	51	47	23	28	51	46
	I Nellie I. Gale.....	18	19	37	32	19	19	38	28	17	19	36	30
Forest Ave....													
	II & III Sarah M. Malone.....	8	9	17	14	9	10	19	16	9	9	18	14
	I Mary E. Gallagher.....	16	14	30	26	15	22	37	28	16	14	30	25
Third St.....													
	I Annabel C. McManus.....	10	9	19	16	12	10	22	17	9	9	18	15

School	Name of Teacher	Spring Term				Fall Term				Winter Term			
		Boys	Girls	No.	Av.	Boys	Girls	No.	Av.	Boys	Girls	No.	Av.
Longfellow	Adelaide L. Mansur, Director	21	20	41	31	22	20	42	32	16	16	32	26
	Mary A. Reilly, Asst.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Valentine ..	Grace E. Glass, Director	23	17	40	34	26	20	46	40	26	19	45	35
	Elsie M. Lyon, Asst.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Larkin St.	Eleanor A. Herlihy, Director	18	16	34	31	17	18	35	28	16	16	32	27
	Margaret M. Moran, Asst.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pearl St.	Elizabeth L. Hurley, Director	13	16	29	22	17	20	37	28	16	13	29	21
	Annie G. Gilkey, Asst.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hammond St. .	Virginia Dillingham, Director	18	26	44	35	14	24	38	31	15	27	42	29
	Ethlyn M. Steward, Asst.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		2023	2104	4127	3741	2188	2253	4441	3955	2028	2136	4164	3750

DIRECTORY OF TEACHERS, 1917-18

Schools	Teachers' Names	Addresses
High.....	Hal R. Eaton, Principal	349 Center
	Lee T. Gray, Sub-Master	197 Fountain
	Annie M. Pease.....	54 Penobscot
	*Mary B. Hutchings.....	304 N. Main, Brewer
	*Mary C. Robinson.....	44 Thatcher
	Mary L. Webster.....	The Bangor House
	*Elmar T. Boyd.....	251 French
	*Pauline A. Beaupre.....	396 Hammond
	*Fannie H. Robinson.....	142 Hammond
	Mabel A. Humphrey.....	50 Leighton
	Nellie M. Worth.....	259 French
	*Harold A. M. Trickey.....	Hampden
	Willard H. Eaton.....	123 Center
	Sue L. Hincks.....	So. Orrington
	Anna McSkimmon.....	94 Third
	Ethel C. Pfaff.....	57 Ohio
	*Herbert E. Congdon.....	75 Poplar
	Irene Cousins.....	82 N. Main, Brewer
	Alice E. Wormwood.....	202 Norfolk
	Gladys E. Kavanah.....	26 Lane
	Peter W. Mitchell.....	179 Maple
	Helen V. Bransfield.....	The Lowder
	Stasia J. Scribner.....	The Lowder
	Rachel A. Hall.....	9 Fourth
	George N. Varney.....	7 Fourth St. Place
	Bernice B. Dunning.....	156 Cedar
	C. Imogen Wormwood.....	202 Norfolk
	Marion W. Hunt.....	150 State
	Ethel M. Nichols.....	13 Hudson
	Mary F. Mahaney.....	70 Sidney
	Harry D. O'Neil.....	143 Maple
	Hall C. Dearborn.....	427 Essex
Madeline Robinson.....	463 Main	
Margaret L. Holyoke.....	164 State, Brewer	
Ella L. Pennell.....	151 Ohio	

*Department Heads.

Schools	Teachers' Names	Grades	Addresses
	SPECIAL TEACHERS		
High	*Benjamin C. Kent.....		32 Sixth
	*Ethel E. Harrigan.....		319 State
	Emily F. Lee.....		211 Union
	Alden B. Hayes.....		6 Blackstone
Abraham Lincoln	Herbert Poole, Principal.....		29 Palm
	Alma L. Davis.....	IX.....	179 Birch
	Minnie E. McCarthy	IX.....	17 Birch
	Frances B. Mosher	IX.....	38 Forest Ave.
	Alice W. Trickey.....	VIII & IX.....	27 Prentiss
	Lilian C. McCarthy	VIII.....	17 Birch
	Katherine Quigley.....	VIII.....	167 Birch
	Helen J. Mountaine	VIII.....	21 Adams
	Corinne M. Barker	VII.....	87 Elm
	Ida E. Frost.....	VII.....	58 Kenduskeag Ave.
	Agnes M. Mullaney.....	VII.....	41 Birch
	Sadie R. Blaisdell.....	VI.....	277 Forest Ave.
	Kathryn T. Preble.....	VI.....	15 Elm
	Alice M. Collins.....	V.....	40 E. Summer
	Nellie P. Blaisdell	V.....	277 Forest Ave.
	Augusta P. Mountaine.....	V.....	21 Adams
	Nettie M. Howard.....	IV.....	Brewer
	Mabel A. Weymouth.....	IV.....	Brewer
	Sarah A. Ryder.....	IV.....	213 Grove
	Mabel M. Drinkwater.....	II & III.....	135 Elm
	Helen N. Christian.....	I.....	17 Adams
Hannibal Hamlin	Charles P. Allen, Principal.....		141 Ohio
	Annie M. Ervine.....	IX.....	21 Ohio
	Annie L. Roney.....	IX.....	76 Summer
	Kate M. Allamby	IX.....	239 Ohio
	Sara L. Field.....	IX.....	12 Autumn
	Mae O. Straw.....	VIII.....	Union, R. F. D.

*Department Heads

Schools	Teachers' Names	Grades	Addresses
Hannibal Hamlin	Gertrude E. Fogg	VIII.....	277 Hammond
	Ann E. Neville.....	VII.....	109 Elm
	Flora E. Whitley.....	VII.....	R. F. D. No. 8
	Martha A. Colburn	VII.....	24 Ohio
	Mary E. Lynch	VII.....	195 Maple
	Lilla E. Curtis.....	VI.....	Brewer
	Mary T. Gibbons.....	VI.....	66 Third
	Annie F. Moore.....	VI.....	419 Ohio
Esther M. Curran	V.....	112 Birch	
Valentine	Bessie McCoy, Principal	V.....	28 Maple
	Allena H. Jewett.....	IV.....	80 Lincoln
	Elizabeth Nickerson.....	III.....	170 Third
	Mary C. Gallagher.....	II.....	83 First
	Gertrude Simpson.....	I.....	28 Second
Pond St.....	Marion J. Mullen, Principal	V.....	431 Hammond
	Jessie Lord.....	IV.....	13 Pond
	Eva W. Stewart.....	II & III.....	17 Seventh
	Lucie W. Preble.....	I.....	15 Elm
Center St.....	Mary E. Sullivan, Principal	VI.....	State St.
	Ruby M. Gould.....	IV & V.....	Kenduskeag
	Eleanor A. Gayton	II & III	247 Forest Ave.
Elizabeth A. Norton.....	I.....	66 Madison	
Longfellow ...	Augusta P. Kirstein, Principal ...	IV & V.....	375 Center
	Pauline F. Pretto.....	II & III	50 Pine
	Grace E. Gallagher	I.....	11 Birch
Elm St.	Harriet L. Mosher, Principal	III.....	242 Essex
	Margaret M. Gallagher	II.....	11 Birch
	Alice M. Keith.....	I.....	121 Grove
Larkin St.	Mary A. Walsh, Principal	V.....	31 Sidney
	Helen C. Hickson.....	IV.....	26 Brown
	Bernice S. Welch.....	III.....	31 March
	Frances K. Donovan.....	II.....	22 Barker
	Helen C. Hennessy	I.....	5 High

Schools	Teachers' Names	Grades	Addresses
Bower St.....	Margaret S. Hamilton, Principal	IV.....	59 Dillingham
	Margaret F. Toole.....	II & III	96 Cedar
	B. Teresa Curran.....	I.....	32 Carroll
State St.	Mary R. Spratt, Principal	II & III	240 State
	Eunice R. Coney.....	I & II.....	21 Fern
	Helen L. Donnelly.....	I.....	16 Hudson
Pearl St.....	Mary Clayton	II & III	6 Coombs
	Louise A. O'Connor	I.....	30 Otis
Allen St.....	Nellie A. Sullivan	II & III	Veazie, R. F. D. No. 7
	Marion D. Buzzell.....	I.....	195 Third
Cottage St....	Alzada C. Withee	II & III.....	71 Holland
	Nellie I. Gale.....	I.....	68 Jefferson
Forest Ave....	Sarah M. Malone.....	II & III.....	50 Sidney
	Mary E. Gallagher	I.....	79 Birch
Third St.....	Annabel C. McManus	I.....	183 Third
Crosbyville ...	Bertha M. Cushman	I, II & III	29 Holland
SUBURBAN SCHOOLS			
Mount Hope..	Anna A. Jones.....		126 Center
Stillwater Av.	Marion L. Rogan		26 Highland Lane
Bagley	Mildred F. Cousins		332 Essex
Hillside	Nellie G. Curley		38 Pier
Sherburne	Winnie B. Andrews.....		E. Bangor R. F. D. 1
Central	Gladys Galvin.....		100 Ohio
N. Bangor.....	Mabel E. Sweet.....		Ohio, R. F. D. 4
Avenue	Maude H. Morse		Union, R. F. D. 3
Odlin	Grace M. Reed		Odlin Rd., R. F. D. 2
Tyler	Nellie L. Beatty.....		128 West Broadway
Fuller	Ethel Rowe.....		Fuller Road, R. F. D.
KINDERGARTENS			
	Nellie E. Brown, Supervisor		29 James
State St.	Marguerite H. Belden, Director.....		22 Ohio
	Mildred A. Horne, Asst.....		97 Ohio

Schools	Teachers' Names	Addresses
Elm St.	Katherine L. Durgin, Director.....	40 Blackstone
	Eulalia E. Collins, Asst.....	76 Lincoln
Longfellow	Adelaide L. Mansur, Director.....	15 Somerset
	Mary A. Reilly, Asst.....	84 Cedar
Valentine	Grace E. Glass, Director	29 James
	Elsie M. Lyon, Asst.....	735 Main
Bower St.....	Alice E. Moore, Director.....	141 Ohio
	Mary E. Mooney, Asst.....	87 Second
Larkin St.....	Eleanor A. Herlihy, Director.....	201 State
	Margaret M. Moran, Asst.	130 W. Broadway
Pearl St.....	Elizabeth L. Hurley, Director.....	51 Sidney
	Annie G. Gilkey, Asst.....	141 Ohio
Hammond St.	Virginia Dillingham, Director	114 Forest Ave.
	Ethlyn M. Steward, Asst.	97 Ohio
SPECIAL SUPERVISORS		
Music	Mrs. George F. Eaton	29 James
Writing	Mary Alexander.....	28 Congress
Drawing	Mrs Valentin Henneman.....	199 Main
Manual		
Training	Benjamin C. Kent, Director	32 Sixth
	Alden B. Hayes, Asst.....	6 Blackstone
	Dwight F. Meserve, Asst.....	20 Kenduskeag Ave.
Domestic		
Science.....	Ethel E. Harrigan	319 State
	Mrs. John H. Carleton, Asst.....	8 State St. Ave.
	Frances M. Dunning, Asst.	156 Cedar
Phy. Director	Emily F. Lee	211 Union

EVENING SCHOOL

Lee T. Gray, Director
Herbert E. Congdon
Alden B. Hayes
Mrs. John H. Carleton
Frances M. Dunning
Alfreda E. Byer
Ethel M. Nichols

Open—Monday, Tuesday and Thursday Evenings from 7.30 till 9.30
o'clock

MEDICAL INSPECTORS

Dr. D. A. Robinson, Chairman
Dr. Blanche Mansfield, Secretary

Dr. L. S. Mason
*Dr. H. H. Crane
*Dr. L. M. Pastor

**Dr. H. J. Milliken
*Dr. Barbara Hunt
*Dr. H. C. Scribner

Regular Meeting of Medical Inspectors, the second Tuesday of each
month at 7.30 P. M., Medical Room, High School Building.

*Enlisted in Our Country's Service
**Resigned

COURSES OF STUDY

CLASSICAL COURSE

The Classical Course prepares for any College; it gives an all round Academic Course, strong in language.

First Year	<i>Required</i> —English 5. Latin 5. Algebra 5. Ancient History 5.
Second Year	<i>Required</i> —English II, 5. Latin II, 5. Geometry 5. <i>Elective.</i> (One to be selected.)—Greek 5. French 5. German 5.
Third Year	<i>Required</i> —English III, 5. Latin III, 5. Algebra II, 5. <i>Elective.</i> (One to be selected.)—Greek II, 5. French II, 5. German II, 5. <i>Optional.</i> French I, 5 or German I, 5.
Fourth Year	<i>Required</i> —English IV, 2½. Latin IV, 5. Mathematics 2½. Greek III or German III, or French III, 5. <i>Elective.</i> —(One to be selected.)—French I, or II, 5. German I, or II, 5. Chemistry 5. Physics 5. Solid Geometry and Trigonometry 5.

SCIENTIFIC COURSE

The Scientific Course fits for admission to Schools of Technology, and to the Scientific Department of other Colleges.

First Year	<i>Required</i> —English 5. Latin 5. Algebra 5. Ancient History 5. <i>Elective.</i> Science 2½.
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SCIENTIFIC COURSE—Continued

Second Year	<i>Required</i> —English II, 5. Latin II, 5. Geometry 5. <i>Elective.</i> (One to be selected.)—Botany 5. Physiography 5. French I, 5 or German I, 5.
Third Year	<i>Required</i> —English III, 5. Algebra II, 5. Physics 5. <i>Elective.</i> (One to be selected.)—French I, or II, 5. German I, or II, 5.
Fourth Year	<i>Required</i> —English IV, 2½. Mathematics 5. Chemistry 5. <i>Elective.</i> (One to be selected.)—French I, II, or III, 5. German I, II, or III, 5. American History and Civics 5. <i>Optional.</i> —Hygiene 2½. Mechanical Drawing 2½.

TECHNICAL COURSE

The Technical Course fits for Scientific and Technical Schools and gives an all round Technical education.

First Year	<i>Required</i> —English I, 5. Algebra 5. Drawing and Shopwork 10=5. Ancient History 2½. Science 2½.
Second Year	<i>Required</i> —English II, 5. Geometry 5. Drawing and Shopwork 10=5. <i>Elective.</i> (One to be selected.)—German I, 5. French I, 5. Physiography 5.
Third Year	<i>Required</i> —English III, 5. Algebra II, 5. Physics 5. <i>Elective.</i> (One to be selected.)—French I, or II, 5. German I, or II, 5.

TECHNICAL COURSE—Continued

Fourth Year	<i>Required</i> —English IV, 2½. Solid Geometry and Trigonometry 5. Chemistry 5.
	<i>Elective.</i> (One to be selected.)—American History and Civics 5. French I, II, or III, 5. German I, II, or III, 5.
	<i>Optional</i> —Mechanical Drawing 2½.

INDUSTRIAL COURSE

The Industrial Course is designed to enable the pupil who does not intend to enter College, to make himself of greater value along industrial lines.

First Year	<i>Required</i> —English 5. Algebra or Arithmetic 5. Drawing and Shopwork 10=5. Penmanship and Spelling (with Business Forms) 2½.
Second Year	<i>Required</i> —English II, 5. Drawing and Shopwork 10=5. Bookkeeping 5. <i>Elective.</i> (One to be selected.)—Physiography 5. Geometry 5. French I, or German I, 5.
Third Year	<i>Required</i> —English III, 5. Commercial Law 2½. Commercial Geography 2½. <i>Elective.</i> (Two to be selected.)—Bookkeeping 5. Physics 5. French I, or II, 5. German I, or II, 5. English History 5.
Fourth Year	<i>Required</i> —English IV, 5. American History and Civics 5. Typewriting 5=2½. Hygiene 2½. <i>Elective.</i> (One to be selected.)—Bookkeeping 5. Chemistry 5. French I, II, or III, 5. German I, II, or III, 5.

HOUSEHOLD ARTS COURSE

The Household Arts Course is, to a large degree, of a practical character and emphasizes such studies as would be useful in a well ordered home.

First Year	<i>Required</i> —English 5. Algebra and Science 5. Latin 5. Cookery 2. Sewing 1.
Second Year	<i>Required</i> —English II, 5. Biology 5. First Semester—Cookery 2. Sewing 1. Second Semester—Sanitary Science 2. Sewing 1. <i>Elective.</i> (One to be selected.)—Latin II, 5. French I, 5. German I, 5 or Geometry 5.
Third Year	<i>Required</i> —English III, 5. Household Physics 5. English History 2½. Bookkeeping 2½. First Semester—Dressmaking 2. Millinery 1. Second Semester—Home Management and Laundry 2. Millinery 1.
Fourth Year	<i>Required</i> —English IV, 5. Household Chemistry 5. American History and Civics 5. First Semester—Dietetics 2. Foods and Adulterations 1. Second Semester—Home Decoration 2. Home Nursing 1.

COMMERCIAL COURSE

The Commercial Course gives a thorough and broad business training.

First Year	<i>Required</i> —English 5. Algebra and Science 5. Arithmetic 5. Penmanship and Spelling (with Business Forms) 2½.
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COMMERCIAL COURSE—Continued

Second Year	<i>Required</i> —English II, 5. Bookkeeping I, 5. Typewriting 5=2½. Modern History 2½. <i>Elective</i> . (One to be selected.)—French I, 5. German I, 5. Physiography 5. Botany 5.
Third Year	<i>Required</i> —English III, 5. Bookkeeping II, 5. Commercial Law 2½. Commercial Geography 2½. <i>Elective</i> . (One to be selected.)—Stenography and Typewriting 5. French I, or II, 5. German I, or II, 5. Physics. 5.
Fourth Year	<i>Required</i> —English IV, 5. American History and Civics 5. <i>Elective</i> . (Two to be selected.)—Stenography and Typewriting 5. Bookkeeping III, 5. French I, II, or III, 5. German I, II, or III, 5. Chemistry 5.

GENERAL COURSE

The General Course is intended to give a broader general training to those pupils who do not intend to enter a higher institution.

First Year	<i>Required</i> —English 5. <i>Elective</i> . (Two to be selected.)—Algebra 5. Arithmetic 5. Latin 5. (One to be selected.)—Ancient History 2½. Science 2½. Domestic Science 2½. Mechanical Drawing 2½.
Second Year	<i>Required</i> —English II, 5. <i>Elective</i> . (One to be selected.)—Modern History 2½. Mechanical Drawing 2½. Domestic Science 2½. (Two to be selected.)—Geometry 5. Botany or Physiography 5. Bookkeeping 5. Latin II, or French I, 5. German I, 5.

GENERAL COURSE—Continued

Third Year	<i>Required</i> —English III, 5. English History, 2½. <i>Elective.</i> (Two to be selected.)—French I, or II, 5. Latin III, 5. German I, or II, 5. Physics 5. Book-keeping I, or II, 5. Algebra II, 5.
Fourth Year	<i>Required</i> —English IV, 5. Hygiene 2½. <i>Elective.</i> (Two to be selected.)—American History and Civics 5. German I, II, or III, 5. Mathematics 5. Bookkeeping I, II, or III, 5. Chemistry. French I, II, or III, 5.

NOTES ON THE COURSES OF STUDY

1. The figure after each subject indicates the number of recitation periods per week, which is, in general, the same as the number of credits allowed. Exceptions are found in several studies. In this case the diploma value is indicated after the sign=.

2. A pupil in course for a diploma must take studies representing at least seventeen and one-half credits for the year.

3. The minimum number of points to secure a diploma is seventy.

4. Only one foreign language may be begun in the same year and it should be continued for at least two years if the pupil is proficient.

5. Pupils who are preparing to enter college or scientific schools have little choice in regard to studies. The requirements of the institution which the pupil is to enter, fix the sub-

jects to be taken. It is important that the choice of college be made as early as the beginning of the second year, and pupils should then find out exactly the requirements for admission to the college chosen.

6. There must be a sufficient number of pupils desiring a certain elective to warrant the formation of a class in that subject.

7. Pupils unable to take the full course of seventeen and one-half periods a week, may, by consultation with the principal, arrange a course for five years.

8. The selection of studies is subject to the approval of parents and principal and, whenever necessary, of the superintendent. After studies have been selected, pupils will not be allowed to make changes until permission has been granted by the principal or superintendent. The three upper classes select their studies before the close of the preceding year.

9. No credit will be given a pupil unless a study has been pursued at least a year, or unless the amount required in the course is completed.

10. The school is provided with excellent chemical and physical laboratories. Pupils who are to enter colleges where such work is allowed as part of their preparation, are advised to take one year of science.

11. The Commercial Department has all necessary appliances, and offers thorough instruction in all the branches taken in the best commercial colleges. At present the school has thirty typewriters of the highest grade.

12. Free-hand Drawing is elective in all courses, two and one-half credits being given for five periods of work weekly. This course is offered for those particularly adapted to the work and the number in each class is limited to fifteen.

13. **MILITARY DRILL**

Voluntary in the Eleventh Grade, Junior and Senior years but compulsory and without uniforms in the Tenth Grade. One-half diploma credit per year is allowed for this work.

REGULATIONS

OMISSION OF STUDIES

No pupil of any school shall be excused from any study of exercise of the regular course, until special permission has been granted by the Superintendent of Schools.

TARDINESS AND ABSENCE

For tardiness and absence, the teacher shall require a written excuse from the parent or guardian.

ABSENT THREE HALF-DAYS

If a scholar is absent three half-days in any month, the teacher may require the excuse to be signed by the Superintendent of Schools.

ABSENT FIVE HALF-DAYS

A scholar who is absent from school five consecutive half-days or from examination, without a good excuse, withdraws from the school, cannot be admitted to his class until he has obtained a written permission from the Superintendent of Schools and made up the lost lessons to the satisfaction of the teacher.

ADMISSION AFTER SUSPENSION

A scholar, temporarily dismissed by the teacher for insubordination, may be forbidden to return to the school without written consent of the Superintendent of Schools.

For any act of marked disobedience or contempt the Superintendent shall require such consent to be signed by a majority of the Committee.

SESSIONS

There shall be one session of the High School each week day of the term, except Saturday, continuing from 8 A. M. until 12.45 P. M.

High School Athletics

ELIGIBILITY

This school is a member of the State League of Secondary Schools and is governed by the eligibility rules of the Maine Interscholastic Council.

CONSTITUTION OF ATHLETIC COUNCIL OF BANGOR HIGH SCHOOL

ARTICLE I

NAME

The name of this Body shall be "The Athletic Council of Bangor High School."

ARTICLE II

PURPOSE

The purpose of this Body shall be:

1. To promote the various branches of Athletics and to supervise and direct the same.

2. To see that the various athletic contests are arranged and conducted for the best interests of the School.

3. To represent the Faculty, Alumni and Student interests in the active supervision of Athletics in Bangor High School.

The Athletic Council shall at all times be subject to the control of, and shall be responsible for its acts to the Superintending School Committee of Bangor. Subject to such control by the School Committee, the Athletic Council shall have full jurisdiction over all matters relating to, or in any way connected with the Athletic interests of the Bangor High School.

ARTICLE III

MEMBERS

The Athletic Council shall consist of nine (9) members, as follows:

Three (3) members of the Faculty.

Three (3) members of the Alumni or former students.

Three (3) members of the Student Body.

ARTICLE IV

ELECTION OF MEMBERS

The Faculty members of the Council shall be the Principal of the School, the Physical Director and one other member elected by the Faculty. The Alumni members of the Council shall be elected by the School Committee except that in the event of an active Alumni Association of the School being

formed, such Alumni Association shall elect the Alumni members. The Student members, one from each of the three upper classes, shall be elected by their respective classes by ballot.

The Principal of the School shall be ex-officio Chairman of the Athletic Council.

The election of Alumni members shall be held at the regular meeting of the School Committee in June.

The election of Student and Faculty members of the Athletic Council shall be held annually during the week in June following the first Monday at the close of the school year and all members shall hold office until their successors are elected.

ARTICLE V

JURISDICTION AND DUTIES

Section 1. This Body shall have full jurisdiction over all matters relating to or in any way connected with the Athletic interests of Bangor High School, including the power to declare a vacancy in the office of Manager or Captain of any team whenever in the judgment of this Body the administration thereof is contrary to the Athletic interests of the school.

Section 2. It shall be the duty of this Body immediately subsequent to its election, to organize and elect a member of the Faculty of the School, who may or may not be a member of this Body, as Secretary and Treasurer, and the said Secretary and Treasurer shall act as custodian of all records and other property belonging to or in any way connected with each Athletic department, and the said Secretary and Treasurer shall hold subject to the direction of this Body, all original estimates and reports laid before it by each manager during the period of

his management, together with all Books of Record and all funds remaining as balance to the credit of each Athletic department at the end of its respective season. It shall be the duty of the Secretary and Treasurer to pay all properly contracted and approved bills of the several athletic departments and to supervise all advertising and printing of aforesaid departments. The Athletic Council shall make a written report to the School Committee in June each year, including therein the Secretary and Treasurer's report for the year. All original estimates and reports, together with a statement of the finances of the different departments shall be on file in the office of the Secretary and Treasurer and at all times accessible to members of this Body and the Superintending School Committee. It shall be the duty of the Secretary and Treasurer of this Body to call meetings thereof at any time upon request of any member.

Section 3. It shall be the duty of this Body immediately subsequent to its organization to elect an Auditing Committee consisting of one Faculty member, one Alumni member and one Student member whose duty it shall be to audit the books of the Secretary and Treasurer and report before the first Monday in June.

Section 4. It shall be the duty of this Body to keep fully advised at all times of the exact financial conditions of the several Athletic departments and for this purpose it shall have the power to require the Secretary and Treasurer to submit a statement of the finances of the several departments at any time. And it shall further be the duty of this Body to withhold from any manager permission to engage in any game or contest whenever in the judgment of this Body the conditions warrant such action.

Section 5. It shall be the duty of this Body to publish over the signature of its Treasurer in that issue of the Bangor High School Oracle next subsequent to the close of each Athletic season a statement of the financial conditions of that department audited by the Auditing Committee of this Body.

Section 6. It shall be the duty of this Body to nominate from the members of the incoming Senior Class not less than two (2) candidates for Manager and from the incoming Junior Class not less than two (2) candidates for Assistant Manager, of each Athletic team from whom a choice must be made by a vote of the entire Student Body. The baseball and track managers shall be elected in October, the football managers in January and the basketball managers in June of each year.

ARTICLE VI

ELECTION OF CAPTAINS

1. The captain of the football team shall be elected by those members of the football squad who win their B's.
2. The captain of the basketball team shall be elected by those members of the basketball team who win their B's.
3. The captain of the baseball team shall be elected by those members of the baseball team who win their B's.
4. The captain of the track team shall be elected by those members of the track team who win their B's.
5. The election of the captains of the various teams shall be held at the High School Building. The Physical Director shall

call and preside over the same. Seven days' notice in writing shall be given. This election shall be held not later than thirty (30) days after the close of each season.

ARTICLE VII

AWARDING OF LETTERS

Any member of the school who has participated in parts of three or two entire games of football or in parts of four or three entire and regularly scheduled games of baseball; or in parts of four or three entire and regularly scheduled games of basketball; or who has won a point in the Bowdoin or Maine Invitation Track Meet shall be entitled to the "B" of the Bangor High School. The Manager of each team shall be awarded a manager's "B."

No entertainment, athletic schedule, or other event in which the school may participate shall be given until information concerning the same is furnished the Committee and approval obtained.

Report of Principal of the High School

Mr. D. Lyman Wormwood, Superintendent of Schools:

DEAR SIR:

I beg to submit my third annual report as Principal of Bangor High School.

As was anticipated last year, our enrollment has increased until it has now passed the 1000 mark. By placing desks in small recitation rooms, we were able to provide a place for each scholar this year. The installation of manual training and domestic science equipment in grade buildings also helped to relieve congestion by removing the forenoon grade classes in these subjects.

91 more pupils were registered than last year. Our average daily attendance increased 8.5%. I anticipate that next year our registration will increase considerably and more desks will have to be added during the summer in order to provide the requisite number of sittings. These could be placed in rooms 306, 308 and the room now equipped for the grade manual training. It will probably be necessary to conduct recitations in the large study rooms, as during this year every recitation room was in use every period in the day and, in addition, we were obliged to have two recitations in the sewing room and one in the Library.

There have been a few changes and additions to the teaching force. Miss Ware was granted leave of absence for one year to do graduate work in Columbia University and Miss Patch was

chosen for the French fellowship at Bryn Mawr, a well merited honor. We were fortunate enough to secure Miss Margaret Holyoke to act as substitute for Miss Ware, while Miss Estelle Beaupre was elected to the French department to succeed Miss Patch. Both teachers did excellent work. Miss Beaupre, however, resigned during the year to accept a more remunerative position and was succeeded by Miss Madeline Robinson under whom the classes have made excellent progress. We were sorry to lose Mr. Hall C. Dearborn who resigned in March to accept a business opening. Mr. Dearborn was a splendid teacher and had made himself a strong factor in several of the school activities. Miss Files returned after a leave of absence and Miss Ella Pennell was added as teacher in the English department. Both are experienced, capable teachers.

During the year various problems have come up for solution and an earnest effort has been made to meet them. Our most pressing one has been to properly take care of the fifty or seventy-five boys who entered late in the fall term after working during the summer as Junior Volunteers. The work lost had to be made up and pupils placed in regular classes as soon as practicable. This was a difficult task, particularly in mathematics and language subjects, but it was accomplished in the cases of most of the boys, and I desire to pay tribute to the enthusiasm and patriotism of the teachers who worked early and late that these boys should not lose their class standing. I would recommend that a teacher capable of handling mathematics and French be employed to care for the Junior Volunteers who will enter late next fall. Such a teacher could also have classes in make-up work for pupils who have failed in a quarter's work in some subject. I attribute the fact that we have fewer retarded pupils this spring than ever before, to the make-up classes instituted by you last year.

Another problem is to establish such a relationship between school and home that more and better work may be accomplished at the expense of less nervous energy on the part of the teacher. There are certain forms of co-operation which properly belong to the home. If our pupils are to be industrious, obedient, and orderly, the home must join heartily and persistently with the school to attain these ends. Many consultations have been held with parents during the year with good results. I wish it were possible for me to have a personal interview with each parent as, in order to obtain the best result with the individual pupil, we need the intimate knowledge of the child's personality, that no one but the father or mother can furnish.

The new course in Free-hand Drawing has worked out well and Miss Pfaff has accomplished many times what was thought possible to do in one year. The Latin department has conducted a weekly class in sight translation and the plan will be extended to the Mathematics department next year. This work is of inestimable value to the scholars who will be obliged henceforth to take examinations to enter Smith, Wellesley and Mount Holyoke Colleges. The course in practical library work as carried on for several years by Librarian Flagg of the Public Library for the benefit of the pupils of the Eleventh Grade has been continued this year. It is valuable training, and our thanks are due Mr. Flagg and his assistants not only for this work, but for co-ordinating their work with ours in many other ways.

The most ambitious and finest thing musically that I have ever known in a high school was the presentation of the opera "Martha" in concert form with our own soloists, orchestra and chorus. The splendid choral and orchestra work at the Junior Exhibition and Graduation should also be mentioned. Our

band is a veteran organization now and the peer of any similar body. Its second annual concert in City Hall was enjoyed by a large audience.

Bangor High School yields to none other in patriotism. Every call that has been made on it has been responded to willingly and quickly. The band and cadets have done escort duty whenever asked, the food administration cards have been distributed by members of the school, a War Saving Stamp drive conducted, many boys have enlisted in the Boys' Working Reserve, while our service flag contains 22 stars representing boys who enlisted while members of the school. All are anxious to do not only their "bit" but their "best."

In conclusion allow me to express my thanks to the School Board and yourself for your assistance and cordial support and to the teachers and pupils for their earnest co-operation during this school year.

Respectfully submitted,

H. R. EATON,
Principal Bangor High School.

Report from the Abraham Lincoln School

Mr. D. Lyman Wormwood, Superintendent of Schools:

DEAR SIR:

The work and the manner in which it has been performed show the advantage of having the manual training in our own building. Due largely to the extremely cold winter and the scarcity of fuel, not always has the room used for domestic science been comfortable. It seems as if the voting room might be used for domestic science classes during the winter term. The saving in heating should meet the expense of making it ready for such work.

The introduction of the highest book of the Gulick hygiene series in the advanced eighth, has met with the approval of all. The teachers will be pleased should you find it convenient to establish it in the eighth and ninth grades.

Judging from this year's class, it seems advisable to continue using book two in the advanced sixth grade English.

Fewer pupils in the straight eighth grade, has afforded an excellent opportunity to remove the deficiency due to lack of individual attention in last year's crowded seventh grade.

The short piece of fence at the boys' side of the building has answered its purpose well. A similar piece at the girls' side would much improve the appearance of the front of the building.

The front entrance, which was damaged last winter by the escaping steam, should be re-tinted and the woodwork varnished.

A few of the teachers' chairs need repairing.

We feel well pleased with the results of the Thrift Stamp savings and the Red Cross drive. Over two hundred dollars was contributed to the latter while over five thousand two hundred dollars worth of Thrift Stamps has been purchased since the seventeenth of January. In many cases, pupils have denied themselves to the extent of investing their entire personal allowance.

The school has been kept well supplied with books and all other needed materials.

The working spirit of the whole building throughout the year has been exceptionally good, and we feel that the results are satisfactory.

We thank you, Mr. Wormwood, for the kindly way in which you have given so much time and thought for our welfare.

Respectfully submitted,

HERBERT POOLE,
Principal.

Report of the Hannibal Hamlin School

Mr. D. Lyman Wormwood, Superintendent of Schools, Bangor, Maine:

DEAR SIR:

I hereby submit a report of the Hannibal Hamlin School for the year 1917-18.

This has been a very satisfactory year. Both teachers and pupils have worked hard and good progress has been made in all grades.

Our rooms have not been as crowded as in former years; due in part, I believe, to the extra class graduated last year. This has given the teachers an opportunity to work to better advantage and has given more time for needed individual work.

If we could have our manual training and sewing in this building another year instead of at the High School I am sure it would mean a great saving in time which would mean much to us during a course of three years. The ward-room could be used for the sewing and there is room in the storeroom for the manual training work.

The roof leaks on the Fourth Street side.

The boiler inspector has mentioned some repairs necessary and will speak to you of them later. Otherwise the building is in very good repair. I would especially call your attention to the marked improvement in the sanitary condition of the building since the extensive repairs of last Summer.

Teachers and pupils have been intensely interested in the purchase of War Savings Stamps and have shown their patriotism to the extent of \$3842.23. Of the 462 pupils enrolled during the year, 450 have bought stamps, making our average 4.97%. This gives an average of \$8.96 per pupil which exceeds the value of two war stamps, the amount the government has asked each child to invest. There are fourteen rooms in the building and ten of them are 100% rooms.

In May the four ninth grades gave an entertainment which netted the sum of \$400. This was donated to the Red Cross and to the War Orphan Fund. I take this opportunity to thank all those who so generously gave their time toward helping to make our entertainment such a success.

I desire to express my sincere thanks to you, Mr. Wormwood, and to the teachers and pupils for the assistance and courtesies extended to me throughout the year.

Respectfully submitted,

CHAS. P. ALLEN,
Principal.

Bangor, Maine, June 14, 1918.

Stereopticon talks at State St.....	7
Amount collected in W. S. S. Campaign.....	\$1,210.20
Thrift cards issued.....	249
War stamps purchased.....	119
Pledges secured from parents to encourage saving through the vacation.....	192

In addition to saluting the flag and taking the oath of allegiance each day a special effort has been made, because of the present crisis, to train the children to consider the rights of the neighbor and to control themselves for the good of the community.

The teachers have been asked in planning the work to remember that no higher ideal can be instilled into the young mind and heart than the one of true service—the service that forgets to ask the question, “What will I get out of this?” but asks, “What am I contributing?” In their daily life with the children they have also been asked to remember that a loss of fibre for our country results from allowing boys and girls in the character forming period to shun the long hard row. The words of a well known Maine man were given as a motto at the beginning of the year: “May Heaven forgive me if I ever encourage a boy to hunt for the “three-foot four-inch row” or the soft snap.” And so on through the year other thoughts were given to form the basis for conversation on the morning circle and to attract the attention of the children in the most profitable directions.

When Liberty Loan drives, Red Cross Campaigns and conservation of food supplies were being discussed and worked for in the world of real life the little citizens of the child world were discussing the problems too, learning to say, “Let us save in food—in luxuries and joy-rides.”

From the following list of books the teachers selected three to read during the year.

Kindergarten Theory and Practice
Study of Child Nature
You are the Hope of the World
Froebel's Kindergarten Principles Critically Examined
Schools of Tomorrow
Ethical and Moral Instruction in School

I wish to say in closing my report to you that the kindergarten teachers of Bangor through their year of work have surely contributed much toward democratic education and are ready to press on.

Respectfully submitted,

NELLIE E. BROWN,
Supervisor of Kindergartens

Report of Manual Training Department

To Mr. Wormwood, Superintendent of Schools:

DEAR SIR:

I herewith present my annual report as Director of Manual Training and Mechanical Drawing.

I believe that the work has advanced over previous years because of various reasons such as one instructor does not use the same room with another, each instructor devotes his whole time to one kind of work that is one taught all the grade work another taught the high school shop work and the other taught the drawing.

I would call your attention to the difference in the quality and quantity of the work done by the pupils of Abraham Lincoln School and the Hannibal Hamlin School. The quality and the quantity of the work of the former is better than the latter due I think to the fact that they do not have to leave their school for their work and do not have a chance to play and carry their fun to their class. There are pupils at the latter school who are just as good workmen as those at the former school. Also there is a great loss of time going from one building to the other which amounts to about eighteen hours per year while their actual working time is only thirty-six hours.

The high school woodwork has been greatly handicapped because of large classes. The quantity of the work was no greater according to the number of pupils and the quality was

below the average. When there is room for only eighteen pupils and there are twenty-seven, twenty-nine and thirty in the class you can't expect proper results.

The same case holds true with the high school machine work. There is room for ten pupils and in the classes were fourteen, seventeen and twenty-two pupils; what results can you expect?

During the year I have visited schools in this state and have written to schools outside the state and I find that the general practice for the coming year will be to make the pupils buy all or part of their material or stock. This step has been taken to make the finished article of more value to the pupil also because of the advance in the cost of material.

The mechanical drawing has been up to the usual high standard but I believe that the school should buy the drawing instruments so as to have them all standard. The paper and ink should be bought by the pupil thus making the cost about the same as it is now.

For the various reasons that I have stated I would make the following recommendations;

FIRST; That a room be fitted up for manual training at the Hannibal Hamlin School and the tools used in the grade room at the high school used in that room. This would give these pupils the same advantage as those at the Abraham Lincoln School and would give another recitation for high school work.

SECOND; That some provision be made to cut down the size of the classes in both wood work and machine work in the high school. I believe that another instructor for high school work would help in this matter.

THIRD; That pupils in the high school be required to buy the lumber that they use and the school furnish the nails, screws, glue, shellac, paint, etc., thus dividing the cost about two-thirds for the pupil and one-third for the school. The

students in machine work should be charged a flat rate based upon the cost of that department for the past year thus dividing the cost the same as in woodworking.

FOURTH; That the school buy thirty-six sets of drawing instruments at the cost of about eight dollars each. This seems like a great expense but when you consider that they would last eight or ten years and would be used by six pupils each year the cost is very small. Then to even up things the pupil should buy the drawing paper and ink.

In closing I would thank the superintending school committee for their promptness in furnishing supplies. I would thank you for your suggestions and help in all the work. I would thank the principals of the various schools also my assistants for their help and the manner in which they assisted in all the work.

Yours respectfully,

BENJAMIN C. KENT,
Director Manual Training
and Mechanical Drawing.

: June, 1918.

OUTLINE FOR MANUAL TRAINING

GRADE VI

1. Talk—shop conduct, etc. care of tools. What we expect to do.
2. Talk—Kinds of wood (hard, soft, trees of each, grain, sapwood, heart wood).

Operation	Exercise	New Tools	Optional Exercise
3. Measurement	Measure Bench	Rule	Chair
4. Squaring Corners	Try Corners of Bench or Block	Try-square	
5. Whittling	Square Lines on Block Plant Tag Paper Knife	Knife	Flower Stick
6. Gauging	Gauge $\frac{1}{2}$ in. lines on block 8 x 4 x 1 (Square Knife Lines around Block of 6)	Gauge	
7. Sawing	Saw to Knife Line	Saw and Bench Hook	Saw Board to Length
8. Saw Short Curve	Picture Puzzle	Coping Saw	Small Circles
9. Planing	Parts of Kite	Jack Plane	Small Windmill
10. Assembling	Nail Kite or Windmill together	Hammer, Brads	

OUTLINE FOR MANUAL TRAINING

GRADE VII

Operation	Exercise	New Tools	Optional Exercise
1. Sawing with Grain	Slats for Plant Stand	Splitting Saw	Trellis, Dish Drainer
2. Work out Arch	Standards for Plant Stand Chisel (Talk about Sandpaper. Sandpaper each piece).		
3. Assembling	Nail Plant Stand together	Hammer, Nails	
4. Rounding Corners and Boring	Broom Holder	Pencil Dividers Extension Bit	Necktie Holder Toothbrush Holder
5. Assembling with Screws	Broom Holder	Gimlet Bit Countersink Screws	
6. Dado Joint	Four Blade Windmill	Chisel	

OUTLINE FOR MANUAL TRAINING

GRADE VIII

Operation	Exercise	New Tools	Optional Exercise
1. Box Construction	Glove Box	Hand Screws Clamps Glue	Medicine Cabinet
2. Making Taper	Towel Rack	Spoke Shave	Pant Hanger
3. Making Duplicate Parts	Magazine Rack	Block Plane	
4. Shellacing	(Shellac Glove Box and Magazine Rack). (Stain may be substituted for Shellac).		
5. Half-Lap Joint	Short Leg Jardiniere Stand		

OUTLINE FOR MANUAL TRAINING

GRADE IX

Operation	Exercise	New Tools	Optional Exercise
1. Edge Gluing	Bread Board Wind Sticks	Bit Guage Screen Clamps	Paper File
2. Finish with oil	Finish Ex. 1	Linseed Oil and Dryer	
3. Application of Half-Lap and Dado Joints	Jardinere Stand Fern Stand Magazine Rack		Small Table
4. Tongue and Groove Joint	Book Rack	Universal Plane	
5. Finishing	(Finish the work done with Shellac, stain, or according to the boy's plans).		
6. Each Student is given choice of small article such as Suit Hanger, Waste Paper Basket, Fern Stand, Mirror Frame.			

OUTLINE FOR MANUAL TRAINING

GRADE X

Operation	Exercise	New Tools	Optional Exercise
1.	Lockers were made and put under the benches to keep student's work and overalls in.		
2.	Blind Mortise and Tenon Joint	Framework, Small Stool	Circular Saw (Power) Dining Chair
3.	Caning	Putting cane into Seat into Stool or Chair	Spacing Dividers Repair Chair with Cane Seat
4.	Finishing	Staining and Shellacing and rubbing down, and principle of finishing explained.	
5.	Furniture Making	Piece of Furniture made such as Desk, Telephone Stand, Piano Bench, Screen, Book Case, etc.	
I.	Turning between Centers	Exercise from Drawing	Turning Lathe, Gouge Skew Chisel, Cutting off Tool, Calipers
II.	Turning Shapes	Handles (Chisels) Knobs, Mallets	Small Gouge Small Skew Chisel
III.	Turning on Screw Plate or across Grain	Pin Tray, Bowl, Plate	Round Nose Parting Tool
IV.	Chucking and Re-chucking	Ring Stand and Jewel Tray	Special Tools
V.	Work such as Bats, Indian Clubs, Dumb Bells, Table Legs, etc., to supplement No. 5 or as part of it.		

OUTLINE FOR MANUAL TRAINING

GRADE XI

Operation	Exercise	New Tools
1. Chipping, Surface Filing, Surface Gauging	Base for Paper File	Cold Chisel, Machinist's Hammer Iron Vise, Hand Files, Scale, Square Surface Gauge, Scratch Awl
2. Filing Angles	Champfer Base of Paper File	Angle Gauge
3. Drilling, Cutting Thread in Hole	Drill and Tap Thread in Base of Paper File	Drill Press, Drills, Tap and Wrench
4. Draw Filing	Spindle for Paper File	
5. Cutting Thread on Outside	Cut Thread on Spindle of Paper File	Thread Dies
6. Setting Lathe on Centers	Demonstration of Lathe Parts, Work and Setting Lathe on Center. Care of Lathe.	
7. Turning Between Centers	Exercise from Drawing	Lathe (Engine) Tools, Micrometer Calipers, Combination Drill and Countersink, Lathe Dogs
8. Polishing	Polish Exercise 7	Mill Files, Emery Cloth
9. Turning Taper	Exercise from Drawing	Taper Gauge
10. Hardening and Grinding	$\frac{1}{2}$ in. Mandrel—.001—+.002	Forge, Grinder
11. Turning to Size and Cutting Thread	Bolt and Nut	Threading Tool, Threading Tool Gauge
12. Cutting Hex Head	Cut Head on Bolt and nut of Ex. 11	Milling Machine and Cutters
13. Knurling	Knurl Handle of Plug Gauge 1.0001 inch	Knurling Tool
14. Boring on Lathe	Flange Coupling, Small Pulley, Gear Plank	Centering Tool
15. Scraping and Polishing	Finish Ex. 14	Scraper, Emery Dust
16. The Castings of an eight-inch Polishing Lathe were bought and the for Lathe were made from Stock.		Students Finished them. All Steel Parts

OUTLINE FOR MECHANICAL DRAWING

GRADE X

Plate I	Lettering, showing size, stroke and space. Vertical Gothic used.
Plate II	Lettering copying notes on lettering, spacing letters in words and spacing the words.
Plate III	Exercise, showing use of T square, triangles, scale, dividers, ruling pen and inking.
Plate IV	Exercise, review of Plate III and use of compass, bow pen and bow dividers and all other instruments.
Plate V	Geometrical problems. Bisecting lines and angles, erecting Perpendiculars.
Plate VI	Geometrical problems. Constructing angles, triangles and tangents.
Plate VII	Geometrical problems. Constructing circles, inscribing circles in triangles (and circumscribing).
Plate VIII	Geometrical problems. Constructing polygons.
Plate IX	Copy a drawing of a machine. Use of Dimension Lines.
Plate X	Copy a drawing of a machine. Trace and make blue-print.
Plate XI	Machine Drawing—Dimension Lines.
Plate XII	Orthographic projections. Two views given to draw the third. Using projection lines. All work in third quadrant.
Plate XIII	Orthographic projections. One view given with other dimensions to draw the other two views. Projection lines used.
Plate XIV	Orthographic projections. Dimensions and position of object given to draw the three views. Projection lines omitted.
Plate XV	Orthographic projections. Dimensions and position of object given to draw three views. Projection lines omitted.
Plate XVI	Orthographic projections. Object at an angle to the V plane.
Plate XVII	Orthographic projections. Use of the auxilliary plane.
Plate XVIII	Orthographic projections. Section through an object. Shaft Coupling.
Plate XIX	Machine sketching and drawing to scale.
Plate XX	Machine sketching and drawing to scale.

OUTLINE FOR MECHANICAL DRAWING

GRADE XI

Plate I	Problem. Generating curve of a helix as a thread.
Plate II	Drawing showing conventional methods of representing square and V threads.
Plate III	Drawing showing formula used to figure head and nut of bolt from the diameter of bolt. Hex head and nut.
Plate IV	Copying a drawing of a simple machine and special stress laid upon dimensioning and title with notes.
Plate V	Draw free hand sketch of monkey wrench, take all measurements and make full sized drawing with dimensions.
Plate VI	Make a tracing of Plate V on tracing cloth and blue-print.
Plate VII	Draw free hand sktech of some part of speed or engine lathe and make detailed drawing with suitable title and all necessary notes for its manufacture. The same part not given to two students of the same division.
Plate VIII	Without the aid of Plate VII make an assembly drawing.
Plate IX	Make tracing of Plate VII on tracing paper and blue-print.
Plate X	Make tracing of Plate VIII and blue-print.
Plate XI	Draw free hand sketch of large piece of machinery and make the working drawing to some convenient scale.
Plate XII	Make tracing of Plate XI and blue-print.
Plate XIII	Development of the surface of a prism (triangular and square) and cylinder.
Plate XIV	Development of the surface of a pyramid (square and hexagonal).
Plate XV	Development of the surface of a frustum of an oblique pyramid.
Plate XIV	Intersecting surfaces. Develop and find curve of intersection.
Plate XVII	Machine drawing—steam-engine parts.
Plate XVIII	Machine drawing—steam-engine parts.

Report of Domestic Science Department

BANGOR, MAINE, June 21, 1918.

Mr. D. Lyman Wormwood, Superintendent of Schools:

DEAR SIR:

I herewith submit my second annual report of the work done in the Domestic Science Department.

During the past year, two hundred and eighty children have received lessons in cookery once a week, and three hundred and twenty-seven children have received instruction in sewing once a week.

At the Abraham Lincoln school, a room was equipped with sewing tables and sewing machines, in order that the grade children in the school might receive instruction there, instead of coming to the High School, as in previous years. This has been a decided advantage to the children of both the Abraham Lincoln, and the High School, and if such a room could be equipped at the Hannibal Hamlin school, much more work could be accomplished in the time allowed.

The cookery outlines have been changed, owing to war conditions, and in the preparation of foods, all other cereals and cereal flours have been used in combination with wheat flour. The school luncheons, which have always been a part of the grade work were omitted this year. Only two luncheons being served, and those by the High School classes. However, the girls had an opportunity to learn the art of serving, when the

High School lunch room was opened, to the teachers, at the time of the State and County Conventions in Bangor.

One hundred and twenty dozen eggs have been put in preservative material again this year, for use in the department next year. Last year we had the same number, and they lasted all through the year, it was an experiment well worth trying, and proved to be a great saving to the department.

The outlines for Domestic Science follow, and I wish to thank my assistants for their hearty cooperation at all times.

I wish also, to thank the teachers and principals, of the grammar schools, and the high school, for the interest they have always shown in the work. I feel very grateful to you Mr. Wormwood for the many times you have so generously given your aid, and I wish to thank you.

Respectfully submitted,

ETHEL E. HARRIGAN,
Supervisor.

OUTLINE DOMESTIC SCIENCE

SEWING

GRADE VI

PRACTICE UNEVEN BASTING:
Directly applied on the first
problem, a sewing bag.

PRACTICE OVERCASTING:
Directly applied

PRACTICE BACK-STITCHING:
Directly applied

PRACTICE TURNING HEM AND
EVEN BASTING:
Directly applied

PRACTICE HEMMING:
Directly applied

PRACTICE RUNNING:
Directly applied

As each new stitch is taken up, after the child has tried it just on a piece of cloth, she sews right on the problem.

SECOND PROBLEM

SEWING APRON

PRACTICE GATHERING:
Directly applied

PRACTICE OVERHANDING:
Directly applied

THIRD PROBLEM

PINAFORE APRON

Directions for holding needles, wearing thimbles, use of scissors, tying knots in thread, etc., are given at the beginning

of the year. Particular attention given to proper position of the child while sewing. Tables turned so that light comes from the left of the child. If child finishes problems offered, instruction is given in use of sewing machine.

GRADE VII

PRACTICE FRENCH SEAM:

Directly applied on first problem

CORSET COVER OR PRINCESS SLIP:

Practice Plackets

Directly applied on Petticoat

Pajamas

Kimono Apron

Practice Button Holes and Sewing on Buttons

Machine Instruction

CORRECT POSITION OF CHILD:

To operate the treadle

To thread

Winding and replacing bobbin

To regulate tension

To remove work

Use of Hemmer

Use of Tucker

To stitch

GRADE VIII

PROBLEMS:

Kimono Apron or Nightdress
Kimono
Petticoat
Middy Blouse
Simple Dress

PRACTICE FELLED SEAM:

Application on cooking apron, cooking cap
Hemmed patch directly applied if possible
Darning
Economy and care of clothing

OUTLINE COOKERY

GRADE IX

THEORY:

1. Kitchen Rules, Method
in Dish Washing, cooking uten-
sils, baking pans, dish pans,
towels, ovens, use and care.

2. Food Principles

The Range

Care of pans under burners
Economy in expenditure of gas.

PRACTICE:

List and care of equipment
Prepare Baked Apple. Place
of fruit in diet.

Prepare Oatmeal. Place of
cereals in diet.

3. *Beverages:*

The desirability of omitting tea and coffee from the diet; danger in boiling or long steeping of tea. Danger in long boiling of coffee. Study tea, coffee, cocoa.

Making of tea, coffee, or chocolate. Toast. Proper methods. Do not allow tea or coffee to be drunk in class.

OUTLINE COOKERY

GRADE IX

THEORY:

4. *Fruits:*

Composition; food value; digestibility; cost; serving fruit; place in diet; preservation of Foods.

Ice Box

How Constructed

PRACTICE:

Stewed fruits, stewed prunes, or apple sauce.

THEORY:

How cleaned

Dangers

Advantages

PRACTICE:

5. *Vegetables:*

Understanding of theory of vegetable cell and starch granules; cellulose importance as a food; its indigestibility; its minimum intake. One classification of vegetables.

Experiments to show starch and cellulose. Prepare one sweet juice vegetable. Make white sauce.

General for cooking

White sauce, clear understanding of its behavior as an introduction to batters.

6. Contrast method of cooking strong and sweet juice vegetables. Prepare two strong juice vegetables

7. *Vegetables Soup:*

Classification of Cream Soups; place in diet; food values; serving of cream soups. Make one cream soup and one puree. Serve with crisp crackers.

8. Review and Written Lesson

9. *Starch:*

Experiments showing sources; effect of heat and water on starch; tests for starch; sources, digestibility; appearance, food value; agents used for thickening. Prepare at least two corn starch desserts.

THEORY:

10. *Sugar:*

Sources and nature of sugar; food values; kinds; products of sugar cane; test for syrups.

11. *Scalloped Dishes:*

Uses for stale bread.

12. *Milk:*

Composition; its value as a food; necessity of clean milk; care of baby's milk. A home made milk box. Pasteurized milk. Speak of city milk supply.

PRACTICE:

Preparation of one scalloped vegetable and one dessert.

Cottage cheese and Junket.

13. *Butter:*

Understanding of what butter really is. Value of substitutes; tax on oleomargarine; coloring; salting.

Making of butter in a bowl or large-mouthed jar.

14. *Cheese:*

Composition; food value; manufacture; as a substitute for meat; method of preparation; kinds.

Preparation of macaroni, rice or potatoes with cheese.

15. *Eggs:*

Food value; composition; preservation; method of inspection; household tests for fresh eggs; indigestibility of badly cooked eggs; experiments to show the effect of heat on albumen.

Prepare eggs cooked in water and directly over fire.

THEORY:

PRACTICE:

16. *Milk and Egg Combination:*

The economy of the combination and the food value; the economy of cooking in a proper way, making a maximum of digestibility possible.

Prepare one baked and one boiled custard.

17. *Meat:*

Study cuts and uses of meat from charts. Have pupils draw an illustration of Boston cuts.

18. *Meat—Continued*

Meat, the muscle of the animal. General structure of muscle; muscle juice. Connective tissue. Tough and tender meats Cheap and costly cuts.

Prepare Lamb Chops and Hamberger Steak.

19.

A Visit to Armour's or Swift's.

20. *Gelatin:*

Sources, food value; important facts about gelatin. General directions for making gelatin jellies, the preparation of gelatin from gelatin.

The preparation of one gelatin dessert.

21. *Fish:*

General composition. Food value; classification; compare with meat in regard to digestibility and food value; cost, preparation. How to tell fresh fish.

Prepare Fish Chowder

22. *Fish—Continued:*

Prepare left-over fish in two ways.

THEORY:

PRACTICE:

23. *Flour Mixtures:*

Theory of Batters and Doughs; Baking Powders—their composition; uses, generation of carbon dioxide gas.

Experiments with acids and an alkali to show formation of CO_2 gas. Prepare Sweet and Sour Milk Griddles.

24. *Flour:*

Test flour for starch and gluten; manufacture of flour; kinds; value of bran; test for oven; table for baking Batters and Doughs.

Prepare Muffins.

25. *Soft Dough:*

Classification of Doughs. Review Batters and compare with Doughs. Prepare Baking Powder Biscuits. Sour Milk Biscuits.

26. *Yeast Bread:*

Review flour; Experiments with yeast. Preparation of Raised Rolls.

27. *Breads—Continued:*

Yeast; its sources; kinds; growth; fermentation. Preparation of rye Bread.

28. *Invalid Cookery:*

Diets; Attractiveness of service; make out three diets for one day. Preparation of tray for an invalid.

29. *Home Nursing:*

Care of sick room; care of patient. First aid to the injured. Household Sanitation. Disinfectants.

THEORY:

30. *Cakes:*

Tests for Ovens. Method of making Butter Cakes. Cakes without butter; means of leavening.

PRACTICE:

Preparation of Ginger Bread.

31. *Salads:*

The value of salads in keeping the blood in good condition; Care of salads and washing for table. Combinations; attractiveness to eye; Food value. Preparation of two salads using French and boiled dressing.

32. *Frozen Desserts:*

Classification; food value; Prepare two ices.
 proportion ice and salt; adjust-
 ment of freezer; care after
 freezing.

33. *Housekeeping:*

The amount of skill and execu- Sweeping, cleaning, dusting,
 tive ability necessary to con- Care of woolen, furs, liveries,
 duct a house well. Profit in Dangers of vermin; disinfect-
 foresight and careful buying tion.
 and proper cooking. Health-
 fulness resultant from cleanli-
 ness.

34. *Table Setting and Serving:*

Method and precision.
 Immaculateness of linen.
 Brightness of silver and glass.
 Noiseless serving.
 Deftness in handling dishes.

OUTLINE COOKERY

GRADE X

1. Care of equipment, gas range, supply table, etc.
2. Classification of foods; elements and compounds, etc.
3. Baked bananas, stewed prunes, spiced apple sauce.
4. Tea, coffee, cocoa. Outside references on all three.
5. Recitation—Notes on fresh and dried fruits.
6. Potatoes—Mashed, creamed, delmonico, baked in half shell.

7. Creamed carrots and peas in croustades, scalloped tomatoes, and cabbage.
8. Vegetable notes—classes, food value, structure, starch shells, drawing, study of the potato as a type of starchy vegetable.
9. Cream soups, purees, bisques.
10. Recitations.
11. Experiments with starch with drawing of different starch grains, Notes on starch.
12. Tapioca cream, and apple tapioca.
13. Notes on cereals.
14. Prepare three breakfast cereals; with and without fruits.
15. Rice as vegetable and dessert.
16. Italian pastes.
17. Sugar—Little theory.
18. Notes on milk.
19. Prepare junkets.
20. Visit Mr. Lewis' Dairy.
21. Visit Ayredale.
22. Butter and cheese.
23. Notes on Butter and Cheese.
24. Cheese fondue, souffle, etc., as meat substitutes.
25. Meat—Lecture with charts.
26. Meat—Lecture with charts.
27. Demonstration at market if possible.
28. Visit Armour's.
29. Tough and tender meats.
30. Left over meat dishes. Cottage pie, casserole of rice and meat, etc.
31. Soup stock.
32. Three soups made from soup stock.

33. Notes on fish.
34. Demonstration of baked stuffed fish.
35. Fish Chowders—Clam and white fish.
36. Oysters prepared in various ways.
37. Gelatin, notes and experiments.
38. Notes on eggs.
39. Eggs cooked in various ways.
40. Egg and milk combinations.
41. Study of flours. Test and etc.
42. Study of wheat.
43. Yeast bread—notes on baking, yeast, etc.
44. Rolled Oats Bread.
45. Rye Bread.
46. Potato Bread.
47. Notes on batters, leavening agents, etc.
48. Griddle cakes and waffles.
49. Muffins, three kinds.
50. Biscuits.
51. Gingerbread, two kinds.
52. Dropped cookies, two kinds.
53. Rolled cookies, two kinds.
54. Salads, and salad dressing.
55. Pastry.
56. Review of pastry.
57. Fritters and deep fat frying.
58. Cream puffs.
59. Examination and recitation.
60. Frozen desserts. Two ices.
61. Study of menus, well balanced menus, suitable combinations, etc.
62. Planning menus for definite cost. A 25c menu and a 30c menu.

63. Serving and mock serving.
64. Prepare luncheon and serve to guests.

The Sophomore Class has cookery only half of the year. During the last half they take Hygiene and Sanitation.

OUTLINE COOKERY

GRADE XI

1. Review of food principles, etc.
2. Preservation of food. Jelly notes.
3. Organisms.
4. Canned peaches.
5. Sweet pickled pears.
6. Chow Chow.
7. Chilly sauce.
8. Apple and grape jelly.
9. Review of batters and doughs. Griddle cakes, Twin Mt. and graham muffins.
10. Popovers, waffles, cornmeal muffins.
11. Marmalade, grapefruit.
12. Ginger snaps and filled cookies.
13. Chocolate chips, and sand tarts.
14. Notes on cake and cake baking.
15. Fancy yeast breads.
16. Plain cake—lemon pie.
17. Review of paste—apple pie.
18. Plain tarts and banbury tarts.
19. Composition and structure of meats.

20. Demonstration of cleaning, stuffing, and trussing of fowl.
21. Left over dishes of chicken.
22. Notes on sugars and experiments.
23. Digestion.
24. Invalid diet notes. A reference given to each girl to write and report on in class, for example: Foods suitable for the child Personal care of the patient. What the home medicine cabinet should contain. Accidents and emergencies.
25. Invalid cookery.
26. Invalid cookery.
27. Notes on fats.
28. Deep fat frying, fritters.
29. Deep fat frying, croquettes.
30. Soap making.
31. Salad dressing—three kinds. Three salads to be used as main course, salad course, dessert.
32. Ice creams.
33. Review in laboratory work.
34. Serving—well balanced menus, etc.

The work in sewing includes; shirt waists, skirts, dresses, undergarments.

This work is supplemented by reference work in Shelter and Clothing by Kinne and Cooley.

OUTLINE COOKERY HIGH SCHOOL

AFTERNOON CLASS—For those who are taking a Classical Course:

THEORY:

1. Kitchen Rules—dishwashing. Care of glass, silver, china, cooking utensils, pans, dish-pans, towels, cloths, meshes, care and construction of range and ice box. Classification of foods.

THEORY:

2. Directions for sauteing.
3. Directions for cooking strong and sweet juice vegetables.
4. Deep fat frying rules.
5.
6. Kinds of Sugar Tests for Syrups.

7. General rules for cooking cereals.

8. Macaroni
Food value—manufacture

9. Cream Soups, Relation to White Sauce.

10. Composition of Meats.

11. Composition of Fish.
Substitute for meat. How to tell Fresh Fish.

12.

PRACTICE:

Knowledge of equipment and arrangement.

PRACTICE:

Fruit: Apples sauteed.

Vegetables: Mashed Potato, Creamed Turnip, White Sauce.

Potato Croquettes.

Cranberry Sauce and Jelly.

Rice as vegetables. Rice as Pudding.

Macaroni of Cheese,
Macaroni of Tomato.

Cream of Tomato Soup.
Croutons.

Lamb Chops, Hamburg Steak.

Boiled Halibut, Egg Sauce.

Fish Chowder.

13. Beverages Preparation of coffee or tea,
 Consideration of Coffee and cocoa and toast.
 Tea. Stimulating effect. Effect
 of long boiling of Coffee and long
 steeping of tea.

14. Batters and Doughs. Waffles, Griddle Cakes.
 Classification, Baking Powder,
 Gas evolved from acid and
 alkali.

THEORY:

15.
 16. Egg as leavening agent
 1-2-3-4 Cake. Development of
 cake from muffins.

17. Yeast—Perfect loaf

18.

19. Molasses as an acid.

20. Dairy Products.

21. Eggs—Food value.

22.

23. Review deep fat frying.

24. Making of pastry.

25.

26. Gelatin. Sources and
 uses.

27. Care of lettuce.
 Attractiveness of salads.

28. Frozen desserts.
 Care of Freezer. Proportions of
 salt and ice for freezing and
 packing.

29. Table setting and serving.

PRACTICE:

Muffins, Muffins Corn.

Variations.

Yeast bread.

Parker House Rolls. Cinna-
 mon Rolls.

Brownbread, Gingerbread.

Butter, Welsh Rarebit.

Boiled Eggs, Scrambled Eggs.

Drop Cookies.

Doughnuts.

Apple Pie.

Simple Puddings, Custard,
 Bread Pudding.

Snow Pudding. Coffee or
 Lemon Jelly.

Salads. Two salads with
 French and Boiled dressing.

Vanilla Ice Cream.

Report of the Evening School

JUNE 25, 1918.

Mr. D. Lyman Wormwood, Superintendent of Schools:

DEAR SIR:

My report as Director of the Evening School for the year 1917-1918 is herewith presented:

The total enrollment during the year was 179. The average attendance was seventy-two.

There were some withdrawals and many removals, but those who attended regularly accomplished fine results.

There was an unusual demand for commercial subjects this year, and a great amount of splendid work has been done in Bookkeeping, Stenography, and Typewriting.

In the elementary branches those who at entrance could neither read nor write have learned to do both with a good degree of facility.

Of those who have been doing the work of the upper grammar grades, one will enter the High School next year.

The work of the year has been marked by a spirit of unusual earnestness and by a determination to achieve a definite worth while goal.

For your continued interest and cooperation I am very grateful.

Respectfully submitted,

LEE T. GRAY,
Director.

Report of the School Agent

To the Superintending School Committee, Bangor, Maine:

GENTLEMEN:—

I herewith submit my annual report, ending February 28, 1918.

Repairs on the school buildings were made during the past year in-so-far as the appropriation allowed, the work done being that most necessary.

One of the most important repairs made during the year was the overhauling of the toilets at the Hannibal Hamlin building. These toilets were in bad condition and the drains under the floor were either broken or plugged. Fourteen new toilets in the girls' basement and eight in the boys' were installed, the tile drains replaced by iron ones and most of the basement floors were given a new coat of cement. The improvement is certainly noticeable. Other improvements made at this building were the repairing of the fence around the yard, the relaying of the wooden platform at the boys' entrance, the laying of cement in the passage between the boiler hose and the school building, repairs on the roof, and pointing of the stone steps at the front entrance.

All of the woodwork on the outside of the Abraham Lincoln building, the fire-escape and the iron fence around the school yard received two coats of paint. The stair-treads from the first landing to the second on the boys' side were re-laid. The basement storeroom was converted into a manual training room

for the boys of that building. Ten double carpenter benches and tools for the same were installed, and the floor was laid and cupboards built by the boys under the supervision of the instructor of that department. A part of the assembly hall is used by the sewing classes of the domestic science department, and three sewing machines, eighteen sewing tables and other equipment was installed.

It was necessary to install five new toilets and a slate urinal in the Pearl Street building. One-half of the roof was shingled and the iron gutter was re-lined. The tarred roof on the small annex was re-laid.

Forty-eight new desks were installed in the High School building to accommodate the increased attendance. Twenty-four of these were placed in Room 104, formerly the School Agent's office, and twenty-four were substituted for tablet-arm chairs in Room 204. Other work was done in the Assembly Hall and Gymnasium, and the walls, stair-rails and roof received more or less repairs. New coat racks were placed in the ante-rooms of the Assembly Hall, upright drawing stands were placed in Room 301 for the free-hand drawing classes and some bentwood chairs were purchased for the Assembly Hall. An iron grill was placed on the counter of the Lunch Room. This was built by the boys of the Manual Training Department under the supervision of Mr. Kent.

New wooden steps were built for the Valentine and State Street buildings, leading from the yard to the sidewalk.

The interior of the buildings at Forest Avenue and Stillwater Avenue were painted and calcimined. At Stillwater Avenue new furniture was installed.

The building at Bagley district was shingled during the summer.

On account of the coldness of the building it was necessary to remove the kindergarten from Thirteenth Street to the First Christian Church on Hammond Street. This necessitated more or less work. Other kindergarten floors were striped and varnished during the summer.

Minor repairs were made on other school buildings during the year.

On account of the extreme cold weather this winter much more fuel was consumed than is usual. The amount of extra coal for the buildings has run from five totwenty tons. The amount of extra wood is from two to four cords. We have been fortunate in keeping the schools running, due to a great extent to the coal dealers and fuel commission, who have always been ready to send coal when needed.

RECOMMENDATIONS

The following recommendations at this time are given:

Two boilers in the High School boiler plant will have to be re-tubed this summer. The cement floors in the locker rooms of the boys' and girls' basement should be relaid. A case for the musical instruments owned by the school and used by the High School Band and Orchestra is badly needed.

The walls outside the voting room at the Abraham Lincoln building need repairing and the school yard should be graded. The fence between the school building and the Forest Avenue property is in bad condition.

The roof on the Hannibal Hamlin should be repaired this summer, and the fence around the yard needs painting.

At the Valentine building the boilers need attention, the stone steps should be pointed, the iron on the roof ought to be painted, and a new teachers' toilet installed.

The woodwork in the interior of the Pond Street building needs painting and new window curtains are necessary.

Some of the seats in the Center Street building are in poor condition. At the Longfellow building the plaster in the basement should be repaired, the steam-pipes in the coal bin need covering and some minor repairs made.

The woodwork on the outside of Elm Street schoolhouse needs to be painted, and part of the north wall should be repaired.

The fence at the back of the Larkin Street school yard should be repaired.

The toilets at Bower Street are in poor condition, and new curtains are needed.

The iron on the State Street building should be replaced by new and the fence about the yard needs repairing.

The other half of Pearl Street building should be shingled and the gutter relined. A new ceiling is needed in the room down stairs.

Should the Allen Street building be used for a kindergarten this fall some alterations will be necessary.

The Cottage Street rooms need to be painted and calcimined. The seats in these two rooms are in poor condition.

The room at Third Street should be painted and calcimined.

The ceiling at the Mt. Hope School should be repaired at once. Considerable other work is necessary in this building. Several fences about the suburban schools need repairing, and some minor work is necessary.

Respectfully submitted,

GEORGE W. CLUFF,
School Agent.

Rules and Regulations of School Agent

Adopted June 2, 1914

DUTIES OF THE SCHOOL AGENT

1. It shall be the duty of the School Agent to visit all school buildings in the City at least twice each month, and the rural schools at least twice each term.
2. The School Agent shall look over the buildings and grounds, correcting, through the janitors, any neglect of their duties. He shall also see to it that the closets, outbuildings and fences are kept in proper shape.
3. The School Agent shall act as inspector of all repairs on school property. He shall impress upon the janitors the necessity of keeping the basements clean and free from waste paper and other material liable to cause fire.
4. It shall be the duty of the School Agent to see that all school buildings are supplied with flags and poles properly equipped for displaying the flag.
5. When a vacancy occurs in any school building by reason of sickness or absence of any janitor, it shall be the duty of said janitor to notify the School Agent who shall procure a substitute during such absence.
6. When such absence occurs the School Agent shall notify the Superintendent of any temporary change.
7. He shall make a report of schools visited and his findings monthly to the Superintendent.
8. The Agent shall perform the duties herein stated and any other duties which the School Board may direct.
9. The rules and regulations to take effect when approved by the School Board.

Report of the Truant Officer

To the City Council:

I herewith submit the following annual report of the Truant Officer for the year ending Feb. 28, 1918:

One hundred and thirty-three cases of truancy have been given me to look up during the year. Three arrests have been made and the boys were allowed to go on probation.

Respectfully submitted,

GEO. W. CLUFF,
Truant Officer.

Report of the Medical Inspectors

To the School Board:

GENTLEMEN:

The Medical Inspectors report for the year 1917-18 is hereby presented. Four of your inspectors, Drs. Crane, Scribner, Pastor and Hunt have entered upon military service during the year. There have been no serious epidemics to contend with this year, leaving merely routine work for the inspectors. As the first symptoms of most of the contagious diseases appear before the skin eruption, or in case of whooping cough before the characteristic whoop, it would be a great help in the prevention of these diseases if the teachers were instructed in these initial symptoms and directed to send to the inspectors any such suspicious cases. As it is now the quarantine generally comes too late.

There is a complaint of bad odor from the toilet at Hillside and from the boys basement at the State St. school. The conditions causing this should be corrected.

The dilapidated and unsightly fence at Hillside should either be removed altogether, or a neat new fence put in its place. Such a condition does not impress pupils or travellers favorably. There should be screens at all the windows that are so situated that they can be opened by the children in the suburban schools. To screen one or two and leave the others is a waste of time and money.

Teachers should notify the inspector of the school as soon as a contagious disease appears among the pupils. As the inspector is expected to visit the school only once a month, if he is not notified when the first case appears an epidemic may have been well under way before his regular time for inspection comes round. This has occurred several times already. It is stated, by those who have made bacteriological examinations of the bubble fountains, that when the tube from which the water is taken into the mouth is perpendicular, germs in the air are washed back into the mouth of the tube, but that this danger can be avoided by placing the tubes at an angle. If this is correct the tubes in the fountains in the High School should be changed.

Respectfully submitted for the Inspectors.

D. A. ROBINSON,
Chairman.

Class of 1918, Bangor High School

June 14, 1918

"Labor omnia vincit"

CLASS OFFICERS

John T. Quinn, President

Rachel G. Connor, Vice President

Marion M. Kenney, Secretary

Herbert C. Webb, Treasurer

ROLL OF HONOR

Clarence Barker

Edward F. Chisholm

Robert A. Dole

Donald C. Dwinal

Henry Fox

Walter S. Gordon

Almond Hart

John H. Jameson

Joseph Kaminsky

Norman E. Kearney

Harry E. McInnis

Albert R. Messer

John J. Mosher

James E. Mutty

Osgood A. Nickerson

Stanley Pullen

John G. Salisbury

Harry T. Savage

Wesley A. Smith

Julian S. White

PROGRAM

Music.....Orchestra

Prayer

Essay—Industry and The Period of Reconstruction.....John S. McCann

Essay—"The Wages of Sin is Death".....Doris O. Carr

Chorus—The Recessional.....*De Koven*

Essay—The Gail.....Perry H. Hodgman

History.....Frank D. McGuire

Essay—The Evolution of Civil Government.....A. Everett Eveleth

History.....Rachel G. Connor

Chorus—The Kerry Dance.....Molloy

Essay—Her Test Supreme.....Marion M. Kenney

Parting Address.....James E. Mitchell

Music—a: Scarf Dance.....*Chaminade*

b: Hungarian Dance.....*Brahms*

Conferring Diplomas

Conferring Medals

Singing of Class Ode

CLASS ODE

By Esther E. Willis

Music by Harold W. Green

Near the trench-line of life we are standing,
Prepared to step into the fight;
Well armed with the weapons of study,
Upholding the banner of right.
We pause to look back, ere our parting,
O'er the years that so swiftly have flown
Now smoothly and gently, now roughly,
But each with a gift of its own.

We look at the dear friends around us;
Each one fills a place in the heart.
As we think that we now are to leave them,
The hot tears, unbidden, will start.
We think of the kind, faithful teachers
Who have helped us grow strong day by day;
The road has not always been easy,
But they have helped level the way.

A minute we spend with these memories,
And then, with the sad farewell o'er,
March forth to the conflict before us,
To meet thus, perhaps, nevermore.
But the memories will live with us ever,
As onward thru life we all strive,
To help us push forward toward victory
Till the hour of full triumph arrive.

FIRST HONORS

Average of A for the course in order of rank

Mary E. Clough	Frances M. Glidden***
Frances M. Crowe	Frances E. Curran
Katherine M. Mathews	Donald J. Valentine
Esther A. Lord	Helen M. Madden
Hazel M. Gerald**	Mary E. McDougall
Marion V. Perry***	Doris O. Carr
Thomas J. McGuff	Helen M. Davis
Marion M. Kenney	Alice I. Gallagher
Evelyn F. Currier	Ruth E. Kimball
Katherine T. Bryant	Grace E. Cotton
Rachel G. Connor	Midred J. DeWitt
Doris A. Drew	Catherine M. Mullen

***Three years

**Two years

SECOND HONORS

Average of B for the course

Names arranged Alphabetically

Anna E. Ambrose	Dorothy E. Doe
Florence R. Angley	Huldah S. Doron
Annie B. Barnes	Richard E. Downing
Lester M. Black	E. Geneva Earl
Parry E. Boyd	A. Everett Eveleth
Clarence J. Buckley	Walter L. Frawley
Helen I. Burton	Corinne L. Furbush
Grace M. Carver	Doreen E. Gregory
Pauline R. Charlton	Harold W. Green
Eleanor N. Christensen	Vivian Johnson
Mary Clark	Wilson R. Jordan
Marjorie J. Clement	Doreen E. Kelley
Linwood M. Coffin	Edward F. Kenney
Fannie Cohen	Lillian M. Knowles
Ruth M. Coombs	Helen P. Lancaster

Joseph F. Lynch
John S. McCann
Luda M. McKenney
J. Leslie McLeod
John H. McVey
Florence I. Maddocks**
Thelma A. Martin
H. Eola Mayo
Dorothy S. Miller
James E. Mitchell
John Mortell
Arthur B. Neal**
Leah M. Norris
Mildred P. Oliver
James F. O'Loughlin
G. Whitwell Pierce
Albert E. Pitcher
Dorothea Quincy

Gladys A. Reid
Bernice E. Richards
Mary E. Rogan
Helen M. Rounds
Margery A. Sargent
Evans F. Sealand
Roger E. Small
Fred H. Smith
Harold D. Smith
Gertrude R. Sullivan
Arlene M. Tasker
Gertrude A. Twitchell
Myrtle E. Wakely
Regina Wardwell
Herbert C. Webb
Mary A. Webb
Charles F. Whalen
Mary B. Wheeler
Esther E. Willis

HONORS IN ENGLISH ESSAYS

Doris O. Carr
Marion M. Kenney
Mary E. Clough
Regina Wardwell
Gertrude Sullivan
Helen Burton
Catherine Mullen

Perry H. Hodgman
John S. McCann
Everett Eveleth
Roger E. Small
Donald J. Valentine

NAMES OF GRADUATES

Raymond T. Adams	Mildred J. DeWitt
Clarence E. Allen	Dorothy E. Doe
Anna E. Ambrose	Huldah S. Doron
Florence R. Angley	Richard E. Downing
Ceylon R. Archer	Doris A. Drew
Annie B. Barnes	John H. A. Eames
Lester M. Black	E. Geneva Earl
Parry E. Boyd	Lucy C. Evans
Avis S. Boyington	A. Everett Eveleth
Gladys M. Bridges	Grace E. Flaherty
Katharine T. Bryant	Mary M. Flynn
Clarence J. Buckley	Marian Foss
John E. Burns	Walter L. Frawley
Heleh I. Burton	Corinne L. Furbush
Doris O. Carr	Alice I. Gallagher
Grace E. Cotton	James E. Geagan
Frances M. Crowe	Hazel M. Gerald
Frances E. Curran	Forrest L. Gilmore
Evelvn F. Currier	Frances M. Glidden
Hester S. Carter	Harry Z. Goldstein
Grace M. Carver	Antoinette W. Gould
Carl V. Catell	Judson M. Grant
Dorice M. Catell	Henry L. Gray
G. Madaleine Chaplin	E. Doreen Gregory
Pauline R. Charlton	Harold W. Green
Eleanor N. Christensen	Murial A. Hamm
Mary Clark	Edith E. Hall
Marjorie J. Clement	Perry H. Hodgman
Mary E. Clough	Earl J. Honey
Linwood M. Coffin	Ferdinand R. Iverson
Fannie Cohen	Vivian E. Johnson
Rachel G. Connor	Wilson R. Jordan
J. Frederick Constantine	Philip Kaminsky
Ruth M. Coombs	Doreen E. Kelley
Helen M. Davis	John H. Kennedy
Helena M. Derby	Edward F. Kenney

C. Galen Kenney
Marion M. Kenney
Ruth E. Kimball
Lillian M. Knowles
Helen P. Lancaster
Mildred H. Lancaster
Iola B. Leighton
L. Frances Libby
Catherine E. Lintott
Myra W. Lobley
Charles H. Loftus
Esther A. Lord
Joseph F. Lynch
John S. McCann
James E. Mitchell
John Mortell
M. Catherine Mullen
Mary E. McDougall
Thomas J. McGuff
Frank D. McGuire
Luda M. McKenney
J. Leslie McLeod
John H. McVey
Teresa I. MacDonough
Helen M. Madden
Florence I. Maddocks
Everett B. Mansur
Thelma A. Martin
Katherine M. Mathews
H. Eola Mayo
Dorothy S. Miller
Arthur B. Neal
Grace H. Nichols
Louise E. Nickerson
Leah M. Norris
Mary K. O'Connell
Gerald F. O'Connor
Mildred P. Oliver
James F. O'Loughlin
Edward C. Perkins
Marion V. Perry
Max Phillips
G. Whitwell Pierce
Marie L. Piper
Albert E. Pitcher
Dorothea Quincy
John T. Quinn
Ernest A. Raynes
James E. Regan
Alice E. Reid
Gladys A. Reid
Charles Rich
E. Bernice Richards
Marion E. Robinson
Mary E. Rogan
Helen M. Rounds
Cora F. Russell
Margery A. Sargent
Evans F. Sealand
M. Madeline Searles
Helen J. Shaughnessy
Marion A. Shaughnessy
Roger E. Small
Fred H. Smith
Harold D. Smith
Gertrude R. Sullivan
Helen F. Sullivan
Arline M. Tasker
Gertrude A. Twitchell
W. Simmons Tyler
Donald J. Valentine
Myrtle E. Wakely
Regina Wardwell
Herbert C. Webb
Mary A. Webb
Charles F. Whalen
Mary B. Wheeler
Alfred E. Whitley
Russell A. Whittemore
Esther E. Willis

JUNIOR EXHIBITION
OF THE
JUNIOR CLASS, OF THE HIGH SCHOOL
CITY HALL, BANGOR, MAINE
Friday Evening, March 22, 1918

PROGRAM

The World in Arms

Carl Teike

High School Orchestra

Our Flag

Adapted

George W. Smith

The Swan Song

Brooks

Helen D. Harrigan

The Counsel Assigned

Andrews

James E. Buckley, Jr.

Adoration

Felix Borowski

High School Orchestra

"Here Comes the Bride"

Bosher

Ruth Holden

1918]	CITY OF BANGOR	439
The Beautiful Destroyed	Robert B. Matthews	<i>De Mott</i>
Waltz (from Faust)	Chorus	<i>Gounod</i>
A Cutting from "Peg O'My Heart"	Hazel G. Coffey	<i>Manners</i>
Jean Desprez	William J. Hall	<i>Service</i>
Trial Scene from "To Have and to Hold"	Doris W. Plaisted	<i>Johnston</i>
Florindo (from Carnival Benitien)	High School Orchestra	<i>J. Burgmeir</i>
The Passing of Olaf	H. Vincent Smart	<i>Adapted</i>
"In Lilac Time"	Agnes B. C. Olsen	<i>Cowl</i>
Music	High School Orchestra	<i>Selected</i>
	Decision of Judges	

HIGH SCHOOL ORCHESTRA

First Violin

Grace Carver
James Mitchell
Ceylon Archer
William Robbins
Harold Clark
Galen Kenney
Azell DeVoe
Dewey Christmas
Leonard Pooler
Eleanor Christenson
Heyward Maxfield
Judson Grant
Ivy Mann
Philip Chalmers
Thelma Martin
Thomas Jordan
Edna Bille
Arthur Lipsky

Cello

Vivian Johnson
Mildred Oliver
Frances Crowe
Rachel Connor
Walter Whitney

Clarinet

Frederic Baumann
Franklin Gordon

Bass

Arthur Stanhope
Harold Green

Drums

Francis Shaw

Second Violin

Estelle Baumann
Roger Nickerson
John Meade
Hazel Coffee
Alan Crowell
Abraham Viner
Mildred Osborne
Frances Bailey
Roland Littlefield
Edgar Murry
Maurice Goldman
Carlotta Hersey
Albert Schiro
Roy Dougherty
Elmer Kingsbury

Flute

Parry Boyd

Cornet

Lawrence Connor
Eleanor Hicks

Trombone

Charles Hicks
Bernard Russell
Frederic Jacques

Piano

Dorothy Doe
Luda McKenney

GRADUATING EXERCISES
OF
THE NINTH GRADE
BANGOR GRAMMAR SCHOOLS
Friday Afternoon, June 14, 1918, at 2.30 o'clock

ABRAHAM LINCOLN SCHOOL

PROGRAM

Prayer.....	<i>Rev. J. Edward Hand</i>
Salute to the Flag.....	<i>School</i>
Singing, America.....	<i>School</i>
Recitation, Hats Off.....	<i>Thomas Drew</i>
Song, Viva L'America.....	<i>Clyde Jones</i>
Accompanied by Florence Grant	
Singing, Songs of America.....	<i>School</i>
Song, The Story of Old Glory.....	<i>Dorothy Black</i>
Accompanied by Florence Grant	
Singing, The Marseillaise.....	<i>School</i>
Recitation, The Greater Republic.....	<i>Howard Corning</i>
Singing, The Star Spangled Banner.....	<i>School</i>

Diplomas

Awarding Medals

HANNIBAL HAMLIN SCHOOL

PROGRAM

Prayer.....	<i>Rev. H. S. Capron</i>
Singing, America.....	<i>School</i>
Piano Solo.....	<i>Frances Willetts</i>
Reading, The Flag.....	<i>Pearl Graffam</i>
Cello and Piano.....	<i>Marguerite Murray, Dorothy Mincher</i>
Singing, Marseillaise.....	<i>School</i>
Violin Trio.....	<i>Paul Atwood, Robert McLeod, Willis Rollins</i>
Vocal Solo.....	<i>Mary Belinian</i>
Piano Solo.....	<i>Oris Hayden</i>
Recitation, Your Flag and My Flag.....	<i>School</i>
Bells Solo.....	<i>Julia Johnson</i>
Singing, Sons of America.....	<i>School</i>
Piano Solo.....	<i>Blanche Bowden</i>
Violin Solo.....	<i>Paul Atwood</i>
Recitation, The National Flag.....	<i>Clifford Stevenson</i>
Star Spangled Banner and Flag Salute.....	<i>School</i>

Diplomas

Awarding Medals

LIST OF GRADUATES

ABRAHAM LINCOLN SCHOOL

Mary Ellen Abbott	Crosby Carleton Bean
Dorothy Margaret Chase	Richard Parker Denace
Elizabeth Pauline Clough	Jasper Ellis Starrett
William James Corcoran	Huldah Onah Wood
Virginia Gertrude Doane	Audrey May Pierce
Thomas Jeffersor. Drew	Donald Frederick McGary
Guy Edwin Leo Elwell	Mary Evelyn Coney
Sarah Lena Epstein	Walter Lawrence Sawtelle
Frederic Hamlin Glass	Ada Cohen
Herbert C. Hammond	Wilson Goucher James
Julius Hillson	Norris A. Hammons
Robert Johnson Hutchins	Howard Corning, Jr.
Marion Estelle Johnston	Esther Luena Patten
Virgil Roland Leveille	Alice M. Kelley
Elfreda May Loftus	Nathan Jacob Cohen
Forrest William Luro	Frank Robert Rutter
Harold Francis McCarthy	Roy A. Anderson
Ernest Hutchinson Menges	Dorothy Ellen Black
Burnetta Idona Mutch	Geneva Clare Burr
Nathalie Estelle Nason	George Allen Cameron
Samuel Louis Pilot	Paul Brown Davis
Goldie Katherine Raichlen	George Albert Derby
Catherine Frances Rea	Orman E. Dunn
Sherwin Maine Ricker	Edmund Francis Drinkwine
Leslie Ray Sewall	Dora Galpert
Wynona Stanley	Herbert Cram Glass
Ruby Yerxa	Florence May Grant
Simear Ferris Sawyer	Harold Dewey Gray
Kathleen Frances Caulfield	Mary Elizabeth Grover
John Michael O'Connell	Kathleen Hand
Bertha Annie Davis	Mary Elizabeth Kennedy
Joseph J. Harris	Frances Teresa Lambert
Ethel Roselle Greeley	Louis Maurice Levine
Eugene Kingsley Rowe	Rose Gertrude Lintott

William Henry Maling
James Wilbert McInnis
Opal Irene Mutch
Harold Pomroy
Eva Pearl Rolnick
Kathleen E. Silke
Muriel Grace Thomas
Abraham Tomchin
Pauline M. Witham
Francis M. Jarvis
Mary Friend
Adolph Joseph Arsenault
Eleanor Beatrice Coffey
Ida Kamenkovitz
Sarah Kamenkovitz
Morris Louis Berson
Clyde P. Jones
Ralph March
Eva Frances Wakely
Roosevelt Pease
Albion C. G. Blake
Esther Molly Rolsky
Joseph L. Hecht
Katherine L. Varley

Florian Sherwood Day
Sarah Ida Levine
Malcolm A. Tapley
Mary Ellen Pendleton
Ralph A. Scherer
Pauline Davis
Vernon H. Somers
Ada Dorris Emple
Anna Thorne Congdon
Dorinda Elizabeth Connor
Helen Robbins
George H. Horton
Sidney W. Schiro
John Wilmot Williams
George M. Barakat
Margaret Isabelle O'Connor
Mathea Losetta Persson
Samuel Raichlen
David M. Cohen
Eileen Frances Kane
John Thomas Shaughnessy
Frances Beatrice Peavey
Rebecca Striar
Elton D. Fogg

HANNIBAL HAMLIN SCHOOL

Madelene Viola Arey	Louise Arline Bowe
Carolyn Mason Barnes	Kenneth Earl Bryant
Mary Beatrice Belinian	Arthur Bernard Carr
Una Bertelli Chapin	Frank Thomas Clark
Clara May Chaples	Charles Parsons Davis
Medalin May Campbell	Ruth Margaret DeMeritt
Carroll Elmer Dudley	Sherman Carroll Douglass
Eula Vivian Dysart	Arthur Coram Fogg
Mabelle Delia Field	Oris Ellen Hayden
Irvin Arnold Furrow	Mary Roselle Honey
Pauline Granville	Julia Valentine Johnson
Pearl Roberta Graffam	Bessie Mae Jones
Edna Mae Griffin	Maurice Ward Kane
Carlton Henry Hughes	Amasa Roland Kenney
Orvil Linden Hough	Pauline Mary McAlpine
Mabel Agnes Hunt	Mildred Eleanor McGarrigle
Donald Palmer Holmes	Hazen Edward Nutter
Pauline Burr Jordan	William Dodge Nickerson
Robert Cunningham McLeod	Clara Webster Peabody
James M. MacDonald	Helen Adams Peabody
Doris Tracy Moore	Willis Rich Rollins
H. Gladys Nickerson	Esther Louise Thompson
Warren Sawyer Overlock	Lynden Trueworthy
Marion Stuart Parsons	Edward Stewart Walsh
Vivian Louise Robinson	Frank Plaisted Morrison
Donald Lincoln Smith	Paul Elliott Atwood
Donald D. Smith	Gerald Franklyn Baker
John S. Page	Thelma Maude Bennett
Dustin William Syde	Waldermar C. Bille
Earl A. Wing	Marion Alice Bunker
Wade Austin White	Josephine Katherine Cleary
Lillian Frances Wall	Shirley M. Clendenning
Eileen Eunice Severance	Isabel Libby Coffin
John Raymond Anderson	Robert Wesley Craig
Thelma Resada Beede	John William Dougherty
Blanche Bowden	James Treat Dow

Mary Madeline Gillen
 Laura Annette Hewey
 George Chester Hogan
 Arlene Hussey
 Robert Joseph Johnston
 Vesta E. Leighton
 Edmund G. McNeil
 Harold Ellis Noddin
 Hildred Irene Oxley
 Kathleen M. Pierce
 Robert Sidney Robinson
 Philip R. Rollins
 Edwin Milan Short
 Anna Mary Smith
 Berdena Aline Watters
 Mary Dorothy Whalen
 Andrew G. Whalen
 Gerald S. Wheeler
 Frances Mae Willetts
 George Ernest Wing
 Margaret Cecelia McCart
 Paul Edwin Watson
 Clifford Elden Stevenson

Charles Stephen Dunning
 Grace Bernice Thurston
 Helen Gertruce Hewes
 Kenneth Edward O'Connell
 Margaret Beatrice Sullivan
 Mary Rebecca Harrower
 Maude Marguerite Murray
 Irving Barstow Kelley
 Mabel Lillian Fessenden
 Ruth Frances Jenkins
 Everett Stevens Murdock
 Thelma May Overlock
 Walter Clark Capron
 Clara Winslow Mason
 Ralph Ervin Whitmore
 Arleen Weiler
 Marjorie Edith Woodward
 Doris Madelene Whitmore
 Dorothy Louise Mincher
 Norman Eugene Smith
 Arleen Helen Burpee
 Robert Hugh Collins
 Harry Bernard

RURAL SCHOOLS

Paul Cushman Blethen
 Sadie Agnes Cort
 Lewis Harry Kitchen
 Edward Hill Prescott
 Iva Rose Talbot
 Harriett Lillian Tozier

Clive Wentworth
 Evelyn Scripture
 Frances A. Libby
 Harold Hewes
 Bertha Orris Wilson
 Sylvia Christine Mann

Mildred Veronica Corneil

Bangor City Government

1918--19

Mayor, JOHN F. WOODMAN

ALDERMEN

Ward 1. Edward R. Hickson	Ward 2. Frank H. Robinson
Ward 3. Benjamin F. Tefft	Ward 4. Franklin A. W. Field
Ward 5. Hayward C. Dunham	Ward 6. Frank O. Youngs
Ward 7. Chas. G. O'Connor	

COMMON COUNCILMEN

President, Myer W. Epstein

Ward 1

Michael J. Bell	James E. McGrath	Frank E. Cox
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Ward 2

John F. Rogers		Charles T. Ferry
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Ward 3

Hilliard E. Johnston	Fred L. Ricker	Vinal L. Smart
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Ward 4

Frank MacLennan	Leonard R. Getchell	Herman L. Johnson
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Ward 5

Samuel N. Cohen		Charles H. Smith
-----------------	--	------------------

Ward 6

Myer W. Epstein	Henry F. Whitman	Willis W. Berry
-----------------	------------------	-----------------

Ward 7

William A. Ryder		Michael J. Glynn
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Clerk of Board, Thomas G. Donovan

WARD OFFICERS

WARDENS

- Ward 1. Timothy J. McCarthy
- Ward 2. John M. Forsman
- Ward 3. Dayton G. Tibbetts
- Ward 4. Joseph T. Holbrook
- Ward 5. John Goldthwait
- Ward 6. Olin L. Clement
- Ward 7. Ralph F. Wood

WARD CLERKS

- Ward 1. Joseph G. Shine
 - Ward 2. Daniel A. Sargent
 - Ward 3. Elmer O. Whitten
 - Ward 4. Chas. H. Sinnott
 - Ward 5. John H. Pritchard
 - Ward 6. F. C. Bradbury
 - Ward 7. John T. Barry
-

BOARD OF REGISTRATION

- Michael J. Brennan, Chairman.....Term expires May 1, 1919
- Thomas W. Kelley..... Term expires May 1, 1920
- Edward I. Gleszer.....Term expires May 1, 1920

CITY OFFICERS

1918-1919

ELECTED BY THE CITY COUNCIL

City Clerk—Victor Brett
 City Treasurer and Collector—Thos. G. Donovan
 City Auditor—Lucian C. Everett
 City Solicitor—James B. Mountaine
 Chief of Police—Lindley W. Gilman
 City Electrician—Murray D. Gallupe
 Street Commissioner—John P. Webster
 City Engineer—David J. Nason
 Superintendent of Sewers—Wm. E. Givren
 School Agent and Truant Officer—Geo. W. Cluff
 Chief Engineer of Fire Department—W. S. Mason
 City Physician—C. J. Taylor
 Harbor Master—Edwin Lord

ASSESSORS

Chas. F. Sweet..... Term expires 1919
 Frank A. Garnsey Term expires 1920
 Geo. G. Nelson..... Term expires 1921

OVERSEERS OF THE POOR

Daniel W. Maxfield... Term expires 1919
 Geo. F. Cameron..... Term expires 1920
 John J. Flynn..... Term expires 1921

SCHOOL COMMITTEE

Geo. W. Wescott.....	Term expires 1919
Frederic W. Adams.....	Term expires 1919
Walter A. Danforth	Term expires 1920
Jere F. Angley.....	Term expires 1921
Arthur H. Black.....	Term expires 1921

SUPERINTENDENT OF SCHOOLS

(Appointed by School Committee)

D. Lyman Wormwood

STREET ENGINEERS

D. J. Nason, ex-officio, Benj. F. Tefft, Frank MacLennan

CEMETERY BOARD

A. H. Harding, Chas. F. Bragg, Eben W. Blunt

Constables—Lindley W. Gilman, Anson A. Powers, Thomas E. O'Donohue, Frank J. Rogan, Calvin Knaide, John T. Mackie, Frank M. Douglas, William E. Dyer, Thomas F. Allen, Guy L. Peavey, H. L. Archer, G. A. Tibbetts, P. H. Jacobs, Lewis Richilson, Willard B. Clark, John Goldthwait, D. N. Chaisson, O. L. Clement, Robert R. Pease, D. J. McGrath, Jr.

Surveyors of Lumber—Harry M. Smith, J. E. Gillispie, Albert J. Howell, D. J. McGrath, Jr., Frank E. Flaherty, Patrick Coady.

Fence Viewers—Chas. F. Foster, Joseph B. Leathers, Chas. A. York, L. H. Bunker, Ira P. Watson, Nathan Saunders, Frank H. Prilay, Gideon Ray, S. N. Cohen.

BANGOR WATER BOARD

John F. Woodman, Mayor, ex-officio	
Hosea B. Buck.....	Term expires March, 1919
W. S. Higgins.....	Term expires March, 1919
Frank P. Denaco.....	Term expires March, 1920
F. O. Beal.....	Term expires March, 1920
M. S. Clifford.....	Term expires March, 1921
A. L. Blanchard.....	Term expires March, 1921

CLERK AND COLLECTOR

Walter I. Brown

Assistants—Edna B. Pickard, Delia G. Mann
 Superintendent—Melville A. Sinclair
 Chief Engineer—J. W. Dougherty
 Inspector—Cornelius O'Brien
 Inspector—Thos. V. Campbell
 Consulting Chemist—Prof. James M. Caird
 Resident Chemist—A. C. Powell

TRUSTEES OF HERSEY FUND

John F. Woodman, Mayor, ex-officio.	
Thos. G. Donovan, Treasurer, ex-officio	
William F. Curran.....	Term expires February, 1919
Arthur Chapin.....	Term expires February, 1921
Frederic W. Adams.....	Term expires February, 1923

APPOINTED BY THE MAYOR AND ALDERMEN

Inspector of Buildings—William S. Mason
 Sealer of Weights and Measures—I. M. Hutchings
 City Missionary—Mrs. Jennie McPhee Johnson
 Inspector of Milk—Frank Dwinal

POLICE DEPARTMENT

Chief of Police, Lindley W. Gilman

REGULAR POLICEMEN

Anson A. Powers, Deputy Chief

Calvin Knaide, Inspector	Emery A. Rowe
John T. Mackie	William F. McAllister
Dennis J. Griffin	Daniel F. Kennedy
Cornelius Donovan	John W. Mahoney
James L. Fahey	James E. Reagan, Headquarters Man
Thomas E. O'Donohue	Ambrose L. Phillips, Captain
Frank J. Golden	Fred H. Bean
Frank J. Rogan	Horace S. Berry
Ralph F. Reid	Charles F. Carey, Sergeant
James P. Beck	James A. Conners
Benjamin P. Sproul, Captain	Frank E. Foley
William H. Mead, Sergeant	William J. Nagle
Walter R. Holmes	Fred J. Perkins
William H. Gehigan	Timothy Rogers

SPECIAL PATROLMEN

Henry M. Geagan

Dolor Veilleaux

SPECIAL—BREWER BRIDGE

Timothy J. O'Leary

SPECIAL CHAUFFEURS

William F. Banks

Walter E. Strout

POLICE EXAMINING BOARD

C. J. Taylor, City Physician, ex-officio

Eugene B. Sanger.....Term expires March, 1919

Chas. M. Stewart.....Term expires March, 1920

BOARD OF HEALTH

John Goldthwait.....	Term expires March, 1919
H. L. Robinson.....	Term expires March, 1920
Herman Y. Dyer.....	Term expires March, 1921

SEWER BOARD

Alderman H. C. Dunham	
Ira P. Watson.....	Term expires March, 1919
Timothy H. Donovan.....	Term expires March, 1920
Wm. E. Givren, Sup't of Sewers, ex-officio	

PARK COMMISSIONERS

Samuel R. Prentiss.....	Term expires March, 1919
C. A. Robbins.....	Term expires March, 1920
Geo. E. Thompson.....	Term expires March, 1921

Measurers of Wood and Bark—Arthur Wentworth, T. H. Donovan, Amory W. Staples, Chas. A. Elkins, Geo. A. Daley, Wm. P. Smiley, Chas. M. Stewart, C. G. Chalmers, A. J. Robinson, Fred B. Tuck, Eben W. Blunt, W. B. Crossman, F. G. Eaton, Albert Weston, Hosea B. Buck, E. H. Toole, John D. Toole, Patrick Coady.

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, C. B. Chalmers, 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 L. Bailey, John D. Toole, D. L. Mitchell, F. R. Burke, Geo. M. Drew, A. N. Daigle, F. O. Jellison, B. B. Scott, E. E. Hamm, H. D. Eaton, W. M. Barry, F. H. Toole, Elmer Jordan.

SUPERINTENDENT OF BURIALS

Reuben E. Hathorn

UNDERTAKERS

Reuben E. Hathorn—Mt. Hope
Patrick Quine—Mt. Pleasant
Ralph C. Eveleth—Oak Grove, Finson road
Edward H. Allen—Pine Grove, Carmel road
W. H. Bryant—Maple Grove, Pushaw road

SUPERINTENDENT OF CLOCKS

(Employed by the Mayor)

Herbert C. Burpee

APPOINTED BY BOARD OF HEALTH

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. Louis Harris.
Ward 2. Selden R. Booker
Ward 3. H. Percy Runnels
Ward 4. Everett R. Bell
Ward 5. John H. Stone
Ward 6. Matthew Moriarty
Ward 7. Frank H. Small

CHIEF OF FIRE DEPARTMENT

W. S. Mason

OFFICERS AND PERMANENT MEN

(Appointed by the Chief Engineer and approved by Aldermen)

CENTRAL STATION

Ellis S. Fogg.....	1st District Chief.....	Salary, \$3.00 per day
Chester P. Clark.....	2d District Chief.....	Salary, \$3.00 per day
Frank T. Mason.....	3d District Chief.....	Salary, \$3.00 per day
Geo. K. Adams.....	Sec'y and Chauffeur.....	Salary, \$3.00 per day
John T. Gulliver.....	Motor truck.....	Salary, \$2.75 per day
D. H. Goodwin.....	Asst. Motor Truck.....	Salary, \$2.75 per day
Everett E. Morrison.....	Driver, Steamer.....	Salary, \$2.75 per day
Nathan F. Speed.....	Engineer, Steamer.....	Salary, \$2.75 per day
M. H. Cochrane.....	Hoseman.....	Salary, \$2.75 per day
R. C. Crockett.....	Hoseman.....	Salary, \$2.75 per day
Wm. L. Graffam.....	Driver of Aerial Truck... ..	Salary, \$2.75 per day
J. N. Wilshire.....	Asst. Driver Aerial Truck..	Salary, \$2.75 per day
Otis E. Gray.....	Asst. Driver Aerial Truck..	Salary, \$2.75 per day
Seth D. Libby.....	Aerial Ladder Man.....	Salary, \$2.75 per day
Geo. A. Rimbach... ..	Aerial Ladder Man.....	Salary, \$2.75 per day

STATION NO. 2

Daniel T. Mooney.....	Driver.....	Salary, \$2.75 per day
Daniel T. Sexton.....	Assistant Driver.....	Salary, \$2.75 per day

STATION NO. 3

Albert B. Smith.....	Driver Hose.....	Salary, \$2.75 per day
Geo. M. Darling.....	Assistant Driver.....	Salary, \$2.75 per day

STATION NO. 4

Wm. J. Charlton.....	Driver Hose.....	Salary, \$2.75 per day
Chas. Johnson.....	Driver Steamer.....	Salary, \$2.75 per day
Fred M. Crowell.....	Engineer of Steamer.....	Salary, \$2.75 per day
J. Frank Granville.....	Assistant Driver, Hose.....	Salary, \$2.75 per day

STATION NO. 5

Albert C. Lambert.....	Driver Hose.....	Salary, \$2.75 per day
James E. Crowley.....	Assistant Driver.....	Salary, \$2.75 per day
John S. O'Leary.....	Driver Ladder Truck.....	Salary, \$2.75 per day
Wm. McGrath.....	Assistant Driver Ladder.....	Salary, \$2.75 per day

STATION NO. 6

H. J. Coleman.....	Driver Hose.....	Salary, \$2.75 per day
Walter R. Jordan.....	Assistant Driver.....	Salary, \$2.75 per day
Dennis J. Givren.....	Driver Steamer.....	Salary, \$2.75 per day
Walter W. Hammond..	Engineer Steamer.....	Salary, \$2.75 per day

STANDING COMMITTEES, 1918

ON FINANCE AND INSURANCE

The Mayor and President of Common Council, ex-officio

Alderman Youngs

Councilmen Quine and Smart

ON ACCOUNTS AND CLAIMS

Alderman Youngs

Councilmen Cohen and Ricker

ON STREETS AND HIGHWAYS

Alderman Tefft

Councilmen Berry and Ferry

ON SCHOOLS

Alderman Robinson

Councilmen Whitman and Smart

ON FIRE DEPARTMENT

Alderman Field

Councilmen Cohen and Nagle

ON PAUPER DEPARTMENT

Alderman Robinson

Councilmen Getchell and Johnson

ON WATER

Alderman O'Connor

Councilmen Bugby and MacLennan

ON ELECTRICAL DEPARTMENT AND STREET LIGHTS

Alderman Dunham

Councilmen Smith and Ryder

ON CITY PROPERTY

Alderman O'Connor

Councilmen MacLennan and Bugby

ON PUBLIC UTILITIES

Alderman Youngs

Councilmen McGrath and Glynn

ON TAXATION

Alderman Tefft

Councilmen Cox and Bugby

ON BY-LAWS AND POLICE REGULATIONS

Alderman Hickson

Councilmen Johnston and Whitman

ON ENGROSSED BILLS

Aldermen Hickson and Tefft

Councilmen Rogers and Getchell

ON ELECTIONS

Aldermen Youngs, Robinson and Field

ON ELECTIONS IN COMMON COUNCIL

Councilmen Smith, Bell and Johnston

SALARIES OF SUBORDINATE OFFICERS

Mayor.....	\$1,500 00
City Clerk.....	1,000 00
Clerk of Common Council.....	125 00
Chief of Police (including horse hire).....	1,550 00
Police Deputy, Inspector and Captains, each, per day.....	3 25
Policemen, for each day's actual service.....	3 00
Street Commissioner.....	1,550 00
City Solicitor, including office rent.....	600 00
Chief Engineer of Fire Department (who shall devote all his time to the office) including keeping of horse.....	1,200 00
Harbor Master.....	400 00
Truant Officer, fixed by School Dept.....	
Board of Health, Secretary, (including horse hire).....	500 00
The other two members, each.....	50 00
Inspector of Plumbing, per day.....	3 00
City Treasurer and Collector of Taxes.....	2,000 00
Treasurer's Assistant.....	1,200 00
Overseers of the Poor, Sec. (including horse hire)	600 00
The other two members, each (including horse hire).....	400 00
Superintendent of Almshouse.....	1,000 00
Superintendent of Schools.....	2,750 00
School Agent, fixed by School Dept.....	
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).....	400 00
City Engineer (including horse hire).....	1,550 00
Assessors, Chairman.....	1,380 00

Assessors, each other member.....	1,200 00
Assistant Assessors, per day, each.....	3 00
Superintendent of Sewers, (including horse hire)	1,200 00
Superintendent of Public clocks.....	150 00
City Auditor.....	1,800 00
City Electrician (including horse hire).....	1,500 00
Clerk of Water Board.....	1,800 00
Engineer of Water Works.....	1,200 00
Superintendent of Water Dept.....	1,800 00
Undertaker (R. E. Hathorn) (fixed by Ordinance)	300 00
Undertaker (Patrick Quine) (fixed by Ordinance) ...	200 00
Milk Inspector.....	300 00

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